

# 主机迁移服务

## API 参考

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## 漏洞处理流程

华为公司对产品漏洞管理的规定以“漏洞处理流程”为准，该流程的详细内容请参见如下网址：

<https://www.huawei.com/cn/psirt/vul-response-process>

如企业客户须获取漏洞信息，请参见如下网址：

<https://securitybulletin.huawei.com/enterprise/cn/security-advisory>

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# 目录

---

<b>1 使用前必读</b>	<b>1</b>
<b>2 API 概览</b>	<b>3</b>
<b>3 如何调用 API</b>	<b>4</b>
3.1 构造请求	4
3.2 认证鉴权	7
3.3 返回结果	8
<b>4 应用示例</b>	<b>11</b>
4.1 示例一：创建迁移任务	11
4.2 示例二：启动迁移任务	17
4.3 示例三：暂停并删除迁移任务	22
<b>5 API v3</b>	<b>27</b>
5.1 查询 API 版本信息	27
5.1.1 查询主机迁移服务的 API 版本信息	27
5.1.2 查询主机迁移服务指定 API 版本信息	31
5.2 Agent 运行	36
5.2.1 获取 Agent 配置信息	36
5.3 源端管理	41
5.3.1 查询待迁移源端的所有错误	41
5.3.2 上报源端服务器基本信息	47
5.3.3 查询源端服务器列表	84
5.3.4 批量删除源端服务器信息	115
5.3.5 修改指定 ID 的源端服务器信息	118
5.3.6 更新任务对应源端复制状态	125
5.3.7 删除指定 ID 的源端服务器信息	132
5.3.8 查询指定 ID 的源端服务器	137
5.3.9 获取服务器总览	160
5.3.10 更新磁盘信息	166
5.4 任务管理	195
5.4.1 创建迁移任务	195
5.4.2 查询迁移任务列表	211
5.4.3 批量删除迁移任务	227
5.4.4 删除指定 ID 的迁移任务	232

5.4.5 查询指定 ID 的迁移任务.....	237
5.4.6 更新指定 ID 的迁移任务.....	256
5.4.7 管理迁移任务.....	292
5.4.8 上报数据迁移进度和速率.....	306
5.4.9 查询任务限速规则.....	315
5.4.10 设置迁移限速规则.....	321
5.4.11 解锁指定任务的目的端服务器.....	330
5.4.12 检查网卡安全组端口是否符合要求.....	335
5.4.13 查询指定任务 ID 的安全传输通道的证书 passphrase.....	340
5.4.14 上传迁移任务的日志.....	345
5.4.15 获取一致性校验结果.....	349
5.4.16 上传一致性校验结果.....	356
5.5 命令管理.....	363
5.5.1 获取服务端命令.....	363
5.5.2 上报服务端命令执行结果.....	368
5.6 模板管理.....	375
5.6.1 新增模板信息.....	375
5.6.2 查询模板列表.....	392
5.6.3 批量删除指定 ID 的模板.....	404
5.6.4 删除指定 ID 的模板.....	409
5.6.5 查询指定 ID 模板信息.....	414
5.6.6 修改模板信息.....	423
5.6.7 查询指定 ID 的模板中的目的端服务器的密码.....	434
5.7 密钥管理.....	439
5.7.1 获取 SSL 证书和私钥.....	439
5.7.2 计算 sha256.....	446
5.8 迁移项目管理.....	450
5.8.1 新建迁移项目.....	450
5.8.2 获取项目列表.....	457
5.8.3 查询指定 ID 迁移项目详情.....	464
5.8.4 删除迁移项目.....	470
5.8.5 更新迁移项目信息.....	475
5.8.6 更新默认迁移项目.....	482
5.9 网络检测管理.....	487
5.9.1 更新网络检测相关的信息.....	487
5.10 配置设置管理.....	494
5.10.1 迁移任务配置设置.....	494
5.10.2 查询配置资源.....	501
5.11 隐私协议管理.....	507
5.11.1 同意隐私协议.....	507
5.11.2 查询用户是否同意隐私协议.....	510
<b>6 附录.....</b>	<b>515</b>

---

6.1 错误码.....	515
6.2 状态码.....	558
6.3 获取项目 ID.....	560

# 1 使用前必读

欢迎使用主机迁移服务（Server Migration Service）。主机迁移服务是一种P2V/V2V迁移服务，可以帮您把X86物理服务器或者私有云、公有云平台上的虚拟机迁移到华为云弹性云服务器上，从而帮助您轻松地把服务器上的应用和数据迁移到华为云。

您可以使用本文档提供的API对主机迁移服务进行相关操作，如创建、删除、查询等。支持的全部操作请参见[API概览](#)。

在调用主机迁移服务API之前，请确保已经充分了解主机迁移服务相关概念，详细信息请参见[产品介绍](#)。

## 终端节点

终端节点（Endpoint）即调用API的**请求地址**，不同服务不同区域的终端节点不同，您可以从[地区和终端节点](#)中查询主机迁移服务的终端节点。

主机迁移服务的终端节点如下表所示，请您根据业务需要选择对应区域的终端节点。

表 1-1 主机迁移服务的终端节点

区域名称	区域	终端节点（Endpoint）
亚太-新加坡	ap-southeast-3	sms.ap-southeast-3.myhuaweicloud.com

## 基本概念

- 账号  
用户注册时的账号，账号对其所拥有的资源及云服务具有完全的访问权限，可以重置用户密码、分配用户权限等。由于账号是付费主体，为了确保账号安全，建议您不要直接使用账号进行日常管理工作，而是创建用户并使用他们进行日常管理工作。
- 用户  
由账号在IAM中创建的用户，是云服务的使用人员，具有身份凭证（密码和访问密钥）。  
通常在调用API的鉴权过程中，您需要用到账号、用户和密码等信息。

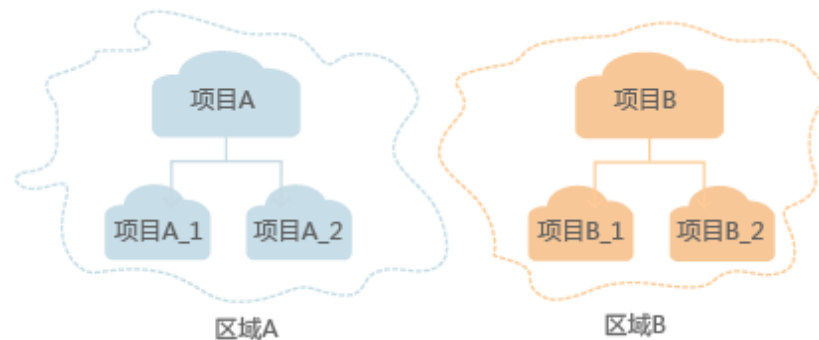
- 区域（Region）

从地理位置和网络时延维度划分，同一个Region内共享弹性计算、块存储、对象存储、VPC网络、弹性公网IP、镜像等公共服务。Region分为通用Region和专属Region，通用Region指面向公共租户提供通用云服务的Region；专属Region指只承载同一类业务或只面向特定租户提供业务服务的专用Region。  
详情请参见[区域和可用区](#)。
- 可用区（AZ，Availability Zone）

一个可用区是一个或多个物理数据中心的集合，有独立的风火水电，AZ内逻辑上再将计算、网络、存储等资源划分成多个集群。一个Region中的多个AZ间通过高速光纤相连，以满足用户跨AZ构建高可用性系统的需求。
- 项目

区域默认对应一个项目，这个项目由系统预置，用来隔离物理区域间的资源（计算资源、存储资源和网络资源），以默认项目为单位进行授权，用户可以访问您账号中该区域的所有资源。如果您希望进行更加精细的权限控制，可以在区域默认的项目中创建子项目，并在子项目中创建资源，然后以子项目为单位进行授权，使得用户仅能访问特定子项目中资源，使得资源的权限控制更加精确。

图 1-1 项目隔离模型



- 企业项目

企业项目是项目的升级版，针对企业不同项目间资源的分组和管理，是逻辑隔离。企业项目中可以包含多个区域的资源，且项目中的资源可以迁入迁出。  
关于企业项目ID的获取及企业项目特性的详细信息，请参见《[企业管理用户指南](#)》。



# 2 API 概览

主机迁移服务所提供的接口为SMS接口。通过使用SMS接口，您可以完整的使用主机迁移服务的所有功能，包括查询源端服务器列表、创建迁移任务和查看迁移进度等。

表 2-1 主机迁移服务接口列表

类型	说明
源端管理	可以实现上报源端服务器基本信息、查询源端服务器列表以及删除源端服务器的操作。
任务管理	租户用于管理迁移任务的相关接口，包括迁移任务的创建、启动、停止、查询和删除等操作。
命令管理	可以实现获取服务端命令以及上报服务端命令执行结果的操作。
模板管理	可以实现查询模板列表、查询制定ID模板信息以及新增、修改、删除模板信息等操作。

# 3 如何调用 API

## 3.1 构造请求

本节介绍REST API请求的组成，并以调用IAM服务的[管理员创建IAM用户](#)接口说明如何调用API。

### 请求 URI

请求URI由如下部分组成：

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

尽管请求URI包含在请求消息头中，但大多数语言或框架都要求您从请求消息中单独传递它，所以在此单独强调。

表 3-1 URI 中的参数说明

参数	描述
URI-scheme	表示用于传输请求的协议，当前所有API均采用HTTPS协议。
Endpoint	指定承载REST服务端点的服务器域名或IP，不同服务不同区域的Endpoint不同，您可以从 <a href="#">地区和终端节点</a> 获取。 例如IAM服务在“中国-香港”区域的Endpoint为“iam.ap-southeast-1.myhuaweicloud.com”。
resource-path	资源路径，也即API访问路径。从具体API的URI模块获取，例如“管理员创建IAM用户”API的resource-path为“/v3.0/OS-USER/u”。
query-string	查询参数，是可选部分，并不是每个API都有查询参数。查询参数前面需要带一个“？”，形式为“参数名=参数取值”，例如“limit=10”，表示查询不超过10条数据。

例如您需要创建IAM用户，由于IAM为全局服务，则使用任一区域的Endpoint（比如“中国-香港”区域的Endpoint：“iam.ap-southeast-1.myhuaweicloud.com”），

并在[管理员创建IAM用户](#)的URI部分找到resource-path ( /v3.0/OS-USER/users )，拼接起来如下所示。

`https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users`

图 3-1 URI 示意图



### 说明

为查看方便，在每个具体API的URI部分，只给出resource-path部分，并将请求方法写在一起。这是因为URI-scheme都是HTTPS，而Endpoint在同一个区域也相同，所以简洁起见将这两部分省略。

## 请求方法

HTTP请求方法（也称为操作或动词），它告诉服务你正在请求什么类型的操作。

表 3-2 HTTP 方法

方法	说明
GET	请求服务器返回指定资源。
PUT	请求服务器更新指定资源。
POST	请求服务器新增资源或执行特殊操作。
DELETE	请求服务器删除指定资源，如删除对象等。
HEAD	请求服务器资源头部。
PATCH	请求服务器更新资源的部分内容。 当资源不存在的时候，PATCH可能会去创建一个新的资源。

在[管理员创建IAM用户](#)的URI部分，您可以看到其请求方法为“POST”，则其请求为：

`POST https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users`

## 请求消息头

附加请求头字段，如指定的URI和HTTP方法所要求的字段。例如定义消息体类型的请求头“Content-Type”，请求鉴权信息等。

详细的公共请求消息头字段请参见[表3-3](#)。

表 3-3 公共请求消息头

名称	描述
Content-Type	消息体的类型（格式），必选，默认取值为“application/json”，有其他取值时会在具体接口中专门说明。
Authorization	签名认证信息，可选，当使用AK/SK方式认证时，使用SDK对请求进行签名的过程中会自动填充该字段。AK/SK认证的详细说明请参见 <a href="#">AK/SK认证</a> 。
X-Sdk-Date	请求发送的时间，可选，当使用AK/SK方式认证时，使用SDK对请求进行签名的过程中会自动填充该字段。AK/SK认证的详细说明请参见 <a href="#">AK/SK认证</a> 。
X-Auth-Token	用户Token，可选，当使用Token方式认证时，必须填充该字段。用户Token也就是调用 <a href="#">获取用户Token</a> 接口的响应值，该接口是唯一不需要认证的接口。
X-Project-ID	子项目ID，可选，在多项场景中使用。如果云服务资源创建在子项目中，AK/SK认证方式下，操作该资源的接口调用需要在请求消息头中携带X-Project-ID。
X-Domain-ID	账号ID，可选。AK/SK认证方式下，全局服务的接口调用时，需在请求消息头中携带X-Domain-ID。

对于[管理员创建IAM用户](#)接口，由于不需要认证，所以只添加“Content-Type”即可，添加消息头后的请求如下所示。

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
Content-Type: application/json
X-Sdk-Date: 20240416T095341Z
Authorization: SDK-HMAC-SHA256 Access=*****, SignedHeaders=content-type;host;x-sdk-date,
Signature=*****
```

## 请求消息体（可选）

请求消息体通常以结构化格式发出，与请求消息头中Content-Type对应，传递除请求消息头之外的内容。若请求消息体中的参数支持中文，则中文字符必须为UTF-8编码。

每个接口的请求消息体内容不同，也并不是每个接口都需要有请求消息体（或者说消息体为空），GET、DELETE操作类型的接口就不需要消息体，消息体具体内容需要根据具体接口而定。

对于[管理员创建IAM用户](#)接口，您可以从接口的请求部分看到所需的请求参数及参数说明。将消息体加入后的请求如下所示，加粗的字段需要根据实际值填写。

- **accountid**为IAM用户所属的账号ID。
- **username**为要创建的IAM用户名。
- **email**为IAM用户的邮箱。
- **\*\*\*\*\***为IAM用户的登录密码。

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
Content-Type: application/json
X-Sdk-Date: 20240416T095341Z
Authorization: SDK-HMAC-SHA256 Access=*****, SignedHeaders=content-type;host;x-sdk-date,
```

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

到这里为止这个请求需要的内容就具备齐全了，您可以使用curl、Postman或直接编写代码等方式发送请求调用API。对于获取用户Token接口，返回的响应消息头中“x-subject-token”就是需要获取的用户Token。有了Token之后，您就可以使用Token认证调用其他API。

## 3.2 认证鉴权

调用接口有如下两种认证方式，您可以选择其中一种进行认证鉴权。

- AK/SK认证：通过AK（Access Key ID）/SK（Secret Access Key）加密调用请求。推荐使用AK/SK认证，其安全性比Token认证要高。
- Token认证：通过Token认证通用请求。

### AK/SK 认证

#### 📖 说明

- AK/SK签名认证方式仅支持消息体大小12MB以内，12MB以上的请求请使用Token认证。
- AK/SK既可以使用永久访问密钥中的AK/SK，也可以使用临时访问密钥中的AK/SK，但使用临时访问密钥的AK/SK时需要额外携带“X-Security-Token”字段，字段值为临时访问密钥的security\_token。

AK/SK认证就是使用AK/SK对请求进行签名，在请求时将签名信息添加到消息头，从而通过身份认证。

- AK（Access Key ID）：访问密钥ID。与私有访问密钥关联的唯一标识符；访问密钥ID和私有访问密钥一起使用，对请求进行加密签名。
- SK（Secret Access Key）：与访问密钥ID结合使用的密钥，对请求进行加密签名，可标识发送方，并防止请求被修改。

使用AK/SK认证时，您可以基于签名算法使用AK/SK对请求进行签名，也可以使用专门的签名SDK对请求进行签名。详细的签名方法和SDK使用方法请参见[API签名指南](#)。

#### 📖 说明

签名SDK只提供签名功能，与服务提供的SDK不同，使用时请注意。

### Token 认证

#### 📖 说明

Token的有效期为24小时，需要使用一个Token鉴权时，可以先缓存起来，避免频繁调用。

Token在计算机系统中代表令牌（临时）的意思，拥有Token就代表拥有某种权限。Token认证就是在调用API的时候将Token加到请求消息头，从而通过身份认证，获得操作API的权限。

Token可通过调用[获取用户Token](#)接口获取，调用本服务API需要project级别的Token，即调用[获取用户Token](#)接口时，请求body中auth.scope的取值需要选择domain，如下所示。

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

获取Token后，再调用其他接口时，您需要在请求消息头中添加“X-Auth-Token”，其值即为Token。例如Token值为“ABCDEFJ...”，则调用接口时将“X-Auth-Token: ABCDEFJ...”加到请求消息头即可，如下所示。

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

## 3.3 返回结果

### 状态码

请求发送以后，您会收到响应，包含状态码、响应消息头和消息体。

状态码是一组从1xx到5xx的数字代码，状态码表示了请求响应的状态，完整的状态码列表请参见[状态码](#)。

对于[管理员创建IAM用户](#)接口，如果调用后返回状态码为“201”，则表示请求成功。

### 响应消息头

对应请求消息头，响应同样也有消息头，如“Content-type”。

对于[管理员创建IAM用户](#)接口，返回如[图3-2](#)所示的消息头。

图 3-2 管理员创建 IAM 用户响应消息头

```
"X-Frame-Options": "SAMEORIGIN",  
"X-IAM-ETag-id": "2562365939-d8f6f12921974cb097338ac11fceac8a",  
"Transfer-Encoding": "chunked",  
"Strict-Transport-Security": "max-age=31536000; includeSubdomains;",  
"Server": "api-gateway",  
"X-Request-Id": "af2953f2bcc67a42325a69a19e6c32a2",  
"X-Content-Type-Options": "nosniff",  
"Connection": "keep-alive",  
"X-Download-Options": "noopen",  
"X-XSS-Protection": "1; mode=block;",  
"X-IAM-Trace-Id": "token_██████████_null_af2953f2bcc67a42325a69a19e6c32a2",  
"Date": "Tue, 21 May 2024 09:03:40 GMT",  
"Content-Type": "application/json; charset=utf8"
```

图 3-3 获取用户 Token 响应消息头

```
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  
→ MIYXQY/KoZlhvcNAQcCoIIYtjCCGEoCAQExDALBglghkgBZQMEAgEwgharBgkqhkiG9w0BwGgghacBIIWmHsidG9rZjW4OnsiZXhwaXJlc19hdC16IjwMTktMDtHMTNUMC  
fj3KIs6/gKnpNRbWZez5eb78SZ0kajACgkqO1w4JlGzrpd18LGXK5tdldf4qHcYb8P4NaY0NvejAgzjVefYtLWT1GSO0zxCZmIQHq82H8qHdgZO9fuEbL5dMhdavj+33wE1  
sHRCE9I87o+k9-  
j+CMZSEB7bUgd5UjjeRAXXIjjePEGA270g1Fruool6jagjFRkNPQfSOU8+uSsttVwRtNfc+qTjp22Rkd5MCqfGQ8LcuUx3a+9CM8nQintWW7oeRUUVhVpki8pxi1wTEboX-  
Rc2f8MUbvqvGw-oPNFYxjECKnoH3HRozvOvN-r5d6Nbwg==  
x-xss-protection → 1; mode=block
```

## 响应消息体（可选）

该部分可选。响应消息体通常以结构化格式（如JSON或XML）返回，与响应消息头中Content-Type对应，传递除响应消息头之外的内容。

对于**管理员创建IAM用户**接口，返回如下消息体。为篇幅起见，这里只展示部分内容。

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

当接口调用出错时，会返回错误码及错误信息说明，错误响应的Body体格式如下所示。

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

其中，error\_code表示错误码，error\_msg表示错误描述信息。



# 4 应用示例

## 4.1 示例一：创建迁移任务

### 场景描述

本章节指导用户通过API创建迁移任务。API的调用方法请参见[如何调用API](#)。

### 涉及接口

- [获取IAM用户Token（使用密码）](#)：用于鉴权认证。
- [上报源端服务器基本信息](#)：上报源端服务器信息注册源端。
- [创建迁移任务](#)：通过源端和目的端的AK和SK创建迁移任务。
- [查询指定ID的迁移任务](#)：根据迁移任务ID查询任务详情，确定迁移任务是否创建成功。

### 前提条件

- 已获取目的端AK/SK，参见[创建访问密钥\(AK/SK\)](#)。

### 操作步骤

#### 步骤1 获取IAM用户Token。

- 接口相关信息  
URI格式：POST /v3/auth/tokens  
详情请参见[获取IAM用户Token（使用密码）](#)。

- 请求示例  
POST: `https://{iam_endpoint}/v3/auth/tokens`  
{endpoint}信息请从[地区和终端节点](#)获取。

```
Body:
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],

```

```

    "password": {
      "user": {
        "name": "username",
        "domain": {
          "name": "domainname"
        },
        "password": "*****"
      }
    },
    "scope": {
      "project": {
        "id": "0215ef11e49d4743be23dd97a1561xxx"
      }
    }
  }
}

```

响应Header中“X-Subject-Token”的值即为Token：

**X-Subject-Token:**MIIDkgYJKoZIhvcNAQcCoIIDgzCCA38CAQExDTALBglghkgBZQMEAgEwgXXXX...

## 步骤2 上报源端服务器信息注册源端。

- 接口相关信息

URI格式：

POST /v3/sources

详情请参见[上报源端服务器基本信息](#)。

- 请求示例

POST https://sms.ap-southeast-1.myhuaweicloud.com/v3/sources

Header：

Content-Type: application/json

X-Auth-Token: "Token"

Body：

```

{
  "os_type": "LINUX",
  "name": "bike-centos",
  "os_version": "CENTOS_7_4_64BIT",
  "linux_block_check": "{\"release_type\": \"CENTOS\", \"release_version\": \"7.4.1708\", \"kernel_simplification\": \"3.10.0\", \"architecture\": \"x86_64\", \"kernel_version\": \"3.10.0-1062.1.1.el7.x86_64\"}",
  "kernel_version": "3.10.0-1062.1.1.el7.x86_64",
  "virtualization_type": "HVM",
  "paravirtualization": true,
  "firmware": "BIOS",
  "has_rsync": true,
  "boot_loader": "GRUB",
  "disks": [{
    "name": "/dev/vda",
    "size": 42949672960,
    "device_use": "BOOT",
    "partition_style": "MBR",
    "physical_volumes": [{
      "name": "/dev/vda1",
      "size": 42948624384,
      "device_use": "OS",
      "used_size": 2854862848,
      "inode_size": "256",
      "file_system": "ext4",
      "mount_point": "/"
    }
  ]
},
  "volume_groups": [],
  "cpu_quantity": 1,
  "memory": 1038716928,

```

```
"networks": [{
  "name": "eth0",
  "ip": "192.168.77.77",
  "mac": "ef05f3911eccb12a0a8931dc198af84e848b0e9e3edd0812805429fc649xxxx"
}],
"ip": "192.168.77.77",
"agent_version": "1.2.3-beta"
}
```

- 响应示例

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

### 步骤3 调用创建任务接口创建迁移任务。

- 接口相关信息

URI格式:

POST /v3/tasks

详情请参见[创建迁移任务](#)。

- 请求示例

Header:

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

Body:

```
{
  "auto_install_pvdriver": true,
  "auto_start": true,
  "syncing": false,
  "migration_ip": "172.16.0.xxx",
  "name": "MigrationTask",
  "os_type": "WINDOWS",
  "project_id": "05825205120026802xxxx01721bc1xxx",
  "project_name": "project_name",
  "region_id": "region_id",
  "region_name": "region_name",
  "source_server": {
    "id": "9a01cb97-3eec-440e-xxxx-04016a8d7502"
  },
  "start_target_server": true,
  "target_server": {
    "name": "name",
    "vm_id": "6dac09d8-5835-4888-xxxx-787453c4e1d4",
    "disks": [{
      "device_use": "OS",
      "disk_id": "354419d9-bd41-4b50-xxxx-e4f6f57c6xxx",
      "name": "Disk 0",
      "physical_volumes": [{
        "device_use": "BOOT",
        "file_system": "NTFS",
        "index": 1,
        "name": "(Reserved)",
        "size": 367001600,
        "used_size": 31244288,
        "uuid": "\\?\\Volume{b99b1c6f-75ef-xxxx-80b3-806e6f6e6963}\\\"
      }, {
        "device_use": "OS",
        "file_system": "NTFS",
        "index": 2,
        "name": "C:\\",
        "size": 42580574208,
        "used_size": 16148279296,
        "uuid": "\\?\\Volume{b99b1c70-75ef-xxxx-80b3-806e6f6e6963}\\\"
      }
    ]
  }
},
```

```

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

```

- 响应示例

```

{
  "id": "8abda8635e09d185015e09d188dd0001xx"
}

```

#### 步骤4 调用查看任务接口，查看任务状态。

- 接口相关信息

URI格式:

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

详情请参见查询指定ID的迁移任务。

- 请求示例

```
GET https://sms.ap-southeast-1.myhuaweicloud.com/v3/tasks/8abda8635e09d185015e09d188dd0001xx
```

Header:

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

- 响应示例

```

{
  "id": "8abda8635e09d185015e09d188dd0001xx",
  "name": "MigrationTask",
  "type": "MIGRATE_FILE",
  "os_type": "LINUX",
  "state": "READY",
  "estimate_complete_time": 1600391014000,
  "create_date": 1600159831000,
  "start_date": 1600159831000,
  "finish_date": 1600343128000,
  "priority": 1,
  "speed_limit": 0,
  "migrate_speed": 0,
  "start_target_server": true,
  "error_json": "",
  "total_time": 935000,
  "float_ip": "192.168.0.xxx",
  "migration_ip": "192.168.0.xxx",
  "vm_template_id": null,
  "region_name": "region_name",
  "region_id": "region_id",
  "project_name": "project_name",
  "project_id": "05825205120026802ff0c01721bc1xxx",
}

```

```
"sub_tasks": [  
  {  
    "id": 3514,  
    "name": "SSL_CONFIG",  
    "progress": 100,  
    "start_date": 1600159847000,  
    "end_date": 1600159851000,  
    "user_op": "REPLICATE"  
  },  
  {  
    "id": 3515,  
    "name": "ATTACH_AGENT_IMAGE",  
    "progress": 100,  
    "start_date": 1600159851000,  
    "end_date": 1600160027000,  
    "user_op": "REPLICATE"  
  },  
  {  
    "id": 3516,  
    "name": "FORMAT_DISK_LINUX_FILE",  
    "progress": 100,  
    "start_date": 1600160027000,  
    "end_date": 1600160030000,  
    "user_op": "REPLICATE"  
  },  
  {  
    "id": 3517,  
    "name": "MIGRATE_LINUX_FILE",  
    "progress": 100,  
    "start_date": 1600160080000,  
    "end_date": 1600160088000,  
    "user_op": "REPLICATE"  
  },  
  {  
    "id": 3582,  
    "name": "CONFIGURE_LINUX_FILE",  
    "progress": 100,  
    "start_date": 1600333914000,  
    "end_date": 1600334025000,  
    "user_op": "CUTOVER0"  
  },  
  {  
    "id": 3583,  
    "name": "DETTACH_AGENT_IMAGE",  
    "progress": 100,  
    "start_date": 1600334029000,  
    "end_date": 1600334103000,  
    "user_op": "CUTOVER0"  
  },  
  {  
    "id": 3584,  
    "name": "SSL_CONFIG",  
    "progress": 100,  
    "start_date": 1600334185000,  
    "end_date": 1600334188000,  
    "user_op": "RESYNCO"  
  },  
  {  
    "id": 3585,  
    "name": "ATTACH_AGENT_IMAGE",  
    "progress": 100,  
    "start_date": 1600334189000,  
    "end_date": 1600334375000,  
    "user_op": "RESYNCO"  
  },  
  {  
    "id": 3586,  
    "name": "SYNC_LINUX_FILE",  
    "progress": 100,  
    "end_date": 1600334375000,  
    "user_op": "RESYNCO"  
  }  
]
```

```

"start_date": 1600334375000,
"end_date": 1600334376000,
"user_op": "RESYNC0"
},
{
  "id": 3587,
  "name": "CONFIGURE_LINUX_FILE",
  "progress": 100,
  "start_date": 1600342952000,
  "end_date": 1600343052000,
  "user_op": "CUTOVER1"
},
{
  "id": 3588,
  "name": "DETTACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600343056000,
  "end_date": 1600343128000,
  "user_op": "CUTOVER1"
},
{
  "id": 3589,
  "name": "SSL_CONFIG",
  "progress": 100,
  "start_date": 1600390756000,
  "end_date": 1600390760000,
  "user_op": "RESYNC1"
},
{
  "id": 3590,
  "name": "ATTACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600390760000,
  "end_date": 1600390953000,
  "user_op": "RESYNC1"
},
{
  "id": 3591,
  "name": "SYNC_LINUX_FILE",
  "progress": 100,
  "start_date": 1600390954000,
  "end_date": 1600390954000,
  "user_op": "RESYNC1"
}
},
"source_server": {
  "id": "621f2cb5-ba4f-4819-b00d-ee48ca2c3xxx",
  "ip": "192.168.0.176",
  "name": "ecs-4bb4",
  "os_type": "LINUX",
  "os_version": "CENTOS_7_6_64BIT",
  "oem_system": false,
  "state": "syncing",
  "migration_cycle": "syncing"
},
"target_server": {
  "id": "de35f45d-b6d5-4769-9148-984c8fab4xxx",
  "vm_id": "6d51477f-0a02-4917-8d7d-b13969f4axxx",
  "name": "ecs-4bb4",
  "ip": null,
  "os_type": "LINUX",
  "os_version": null,
  "system_dir": null,
  "disks": [
    {
      "id": 86364,
      "name": "/dev/sda",
      "relation_name": "/dev/vda",
      "disk_id": "ed3c78d0-3166-48d1-bee0-d29e7d834xxx",

```

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

state表示任务执行状态，READY代表任务准备就绪。

----结束

## 4.2 示例二：启动迁移任务

### 场景描述

本章节指导用户通过API启动迁移任务。API的调用方法请参见[如何调用API](#)。

启动迁移任务前需要获取Token，启动迁移任务后，需要查询任务状态详情，失败或暂停中的任务才能被启动。

### 涉及接口

- [获取IAM用户Token（使用密码）](#)：用于鉴权认证。
- [管理迁移任务\(启动\)](#)：通过源端和目的端的AK和SK启动失败或者暂停的迁移任务。
- [查询指定ID的迁移任务](#)：根据迁移任务ID查询任务详情，确定迁移任务是否启动成功。

### 操作步骤

**步骤1** 获取IAM用户Token。

- 接口相关信息  
URI格式：POST /v3/auth/tokens  
详情请参见[获取IAM用户Token（使用密码）](#)。

- 请求示例

POST: `https://{iam_endpoint}/v3/auth/tokens`

{endpoint}信息请从[地区和终端节点](#)获取。

Body:

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

响应Header中“X-Subject-Token”的值即为Token:

**X-Subject-Token:**MIIDkgYJKoZIhvcNAQcCoIIDgzCCA38CAQExDTALBglghkgBZQMEAgEwgXXXXX...

**步骤2** 调用启动任务接口启动迁移任务。

- 接口相关信息

URI格式:

POST `/v3/tasks/{task_id}/action`

详情请参见[管理迁移任务\(启动\)](#)。

- 请求示例

POST `https://sms.ap-southeast-1.myhuaweicloud.com/v3/tasks/8abda8635e09d185015e09d188dd0001xx/action`

Header:

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

Body:

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

响应200表示调用成功。

**步骤3** 调用查看任务接口，查看任务状态。

- 接口相关信息

URI格式:

GET `/v3/tasks/{task_id}`

详情请参见[查询指定ID的迁移任务](#)。

- 请求示例

GET `https://sms.ap-southeast-1.myhuaweicloud.com/v3/tasks/8abda8635e09d185015e09d188dd0001xx`

Header:



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

- 响应示例

```
{
  "id": "8abda8635e09d185015e09d188dd0001xx",
  "name": "MigrationTask",
  "type": "MIGRATE_FILE",
  "os_type": "LINUX",
  "state": "RUNNING",
  "estimate_complete_time": 1600391014000,
  "create_date": 1600159831000,
  "start_date": 1600159831000,
  "finish_date": 1600343128000,
  "priority": 1,
  "speed_limit": 0,
  "migrate_speed": 0,
  "start_target_server": true,
  "error_json": "",
  "total_time": 935000,
  "float_ip": "192.168.0.xxx",
  "migration_ip": "192.168.0.xxx",
  "vm_template_id": null,
  "region_name": "region_name",
  "region_id": "region_id",
  "project_name": "project_name",
  "project_id": "05825205120026802ff0c01721bc1xxx",
  "sub_tasks": [
    {
      "id": 3514,
      "name": "SSL_CONFIG",
      "progress": 100,
      "start_date": 1600159847000,
      "end_date": 1600159851000,
      "user_op": "REPLICATE"
    },
    {
      "id": 3515,
      "name": "ATTACH_AGENT_IMAGE",
      "progress": 100,
      "start_date": 1600159851000,
      "end_date": 1600160027000,
      "user_op": "REPLICATE"
    },
    {
      "id": 3516,
      "name": "FORMAT_DISK_LINUX_FILE",
      "progress": 100,
      "start_date": 1600160027000,
      "end_date": 1600160030000,
      "user_op": "REPLICATE"
    },
    {
      "id": 3517,
      "name": "MIGRATE_LINUX_FILE",
      "progress": 100,
      "start_date": 1600160080000,
      "end_date": 1600160088000,
      "user_op": "REPLICATE"
    },
    {
      "id": 3582,
      "name": "CONFIGURE_LINUX_FILE",
      "progress": 100,
      "start_date": 1600333914000,
      "end_date": 1600334025000,
      "user_op": "CUTOVER0"
    },
    {
      "id": 3583,
```

```
"name": "DETTACH_AGENT_IMAGE",
"progress": 100,
"start_date": 1600334029000,
"end_date": 1600334103000,
"user_op": "CUTOVER0"
},
{
  "id": 3584,
  "name": "SSL_CONFIG",
  "progress": 100,
  "start_date": 1600334185000,
  "end_date": 1600334188000,
  "user_op": "RESYNCO"
},
{
  "id": 3585,
  "name": "ATTACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600334189000,
  "end_date": 1600334375000,
  "user_op": "RESYNCO"
},
{
  "id": 3586,
  "name": "SYNC_LINUX_FILE",
  "progress": 100,
  "start_date": 1600334375000,
  "end_date": 1600334376000,
  "user_op": "RESYNCO"
},
{
  "id": 3587,
  "name": "CONFIGURE_LINUX_FILE",
  "progress": 100,
  "start_date": 1600342952000,
  "end_date": 1600343052000,
  "user_op": "CUTOVER1"
},
{
  "id": 3588,
  "name": "DETTACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600343056000,
  "end_date": 1600343128000,
  "user_op": "CUTOVER1"
},
{
  "id": 3589,
  "name": "SSL_CONFIG",
  "progress": 100,
  "start_date": 1600390756000,
  "end_date": 1600390760000,
  "user_op": "RESYNCO"
},
{
  "id": 3590,
  "name": "ATTACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600390760000,
  "end_date": 1600390953000,
  "user_op": "RESYNCO"
},
{
  "id": 3591,
  "name": "SYNC_LINUX_FILE",
  "progress": 100,
  "start_date": 1600390954000,
  "end_date": 1600390954000,
  "user_op": "RESYNCO"
}
```

```
}
],
"source_server": {
  "id": "621f2cb5-ba4f-4819-b00d-ee48ca2c3xxx",
  "ip": "192.168.0.xxx",
  "name": "ecs-4bb4",
  "os_type": "LINUX",
  "os_version": "CENTOS_7_6_64BIT",
  "oem_system": false,
  "state": "syncing",
  "migration_cycle": "syncing"
},
"target_server": {
  "id": "de35f45d-b6d5-4769-9148-984c8fab4xxx",
  "vm_id": "6d51477f-0a02-4917-8d7d-b13969f4axxx",
  "name": "ecs-4bb4",
  "ip": null,
  "os_type": "LINUX",
  "os_version": null,
  "system_dir": null,
  "disks": [
    {
      "id": 86364,
      "name": "/dev/sda",
      "relation_name": "/dev/vda",
      "disk_id": "ed3c78d0-3166-48d1-bee0-d29e7d834xxx",
      "partition_style": "MBR",
      "size": 42949672960,
      "used_size": 42948624384,
      "device_use": "BOOT",
      "os_disk": false,
      "physical_volumes": [
        {
          "id": 132594,
          "uuid": null,
          "index": 0,
          "name": "/dev/sda1",
          "relation_name": "/dev/vda1",
          "device_use": "OS",
          "file_system": "ext4",
          "mount_point": "/",
          "size": 42948624384,
          "used_size": 2467393536,
          "free_size": 40481230848
        }
      ]
    },
    {
      "disk_index": "z"
    }
  ],
  "volume_groups": [],
  "image_disk_id": "9700f5ce-02ae-4a71-a057-deffe9b69xxx",
  "rollback_snapshot_ids": null
},
"clone_server": null,
"target_snapshot_id": null,
"remain_seconds": 60000
}
```

state表示任务执行状态，RUNNING代表正在执行，MIGRATE\_SUCCESS表示执行成功。

----结束

## 4.3 示例三：暂停并删除迁移任务

### 场景描述

本章节指导用户通过API暂停并删除迁移任务。API的调用方法请参见[如何调用API](#)。

删除迁移任务前，需要获取Token并暂停迁移任务，暂停迁移任务后，需查询任务状态详情，当迁移任务暂停后，才能删除迁移任务。

### 涉及接口

- [获取IAM用户Token（使用密码）](#)：用于鉴权认证。
- [管理迁移任务（暂停）](#)：根据迁移任务ID暂停迁移任务。
- [查询指定ID的迁移任务](#)：根据迁移任务ID查询任务详情，确定迁移任务是否暂停成功。
- [删除指定ID的迁移任务](#)：根据迁移任务ID删除迁移任务。

### 操作步骤

#### 步骤1 获取IAM用户Token。

- 接口相关信息  
URI格式：POST /v3/auth/tokens  
详情请参见[获取IAM用户Token（使用密码）](#)。

- 请求示例  
POST: https://{iam\_endpoint}/v3/auth/tokens  
{endpoint}信息请从[地区和终端节点](#)获取。

Body:

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

响应Header中“X-Subject-Token”的值即为Token：

**X-Subject-Token:**MIIDkgYJKoZIhvcNAQcCoIIDgzCCA38CAQExDTALBglghkgBZQMEAgEwgXXXXX...

**步骤2** 调用暂停任务接口暂停迁移任务。

- 接口相关信息

URI格式:

```
POST /v3/tasks/{task_id}/action
```

详情请参见[管理迁移任务（暂停）](#)。

- 请求示例

```
POST https://sms.ap-southeast-1.myhuaweicloud.com/v3/tasks/  
8abda8635e09d185015e09d188dd0001xx/action
```

Header:

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

Body:

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

响应200表示调用成功。

**步骤3** 调用查看任务接口，查看任务状态。

- 接口相关信息

URI格式:

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

详情请参见[查询指定ID的迁移任务](#)。

- 请求示例

```
GET https://sms.ap-southeast-1.myhuaweicloud.com/v3/tasks/  
8abda8635e09d185015e09d188dd0001xx
```

Header:

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

- 响应示例

```
{  
  "id": "8abda8635e09d185015e09d188dd0001xx",  
  "name": "MigrationTask",  
  "type": "MIGRATE_FILE",  
  "os_type": "LINUX",  
  "state": "ABORT",  
  "estimate_complete_time": 1600391014000,  
  "create_date": 1600159831000,  
  "start_date": 1600159831000,  
  "finish_date": 1600343128000,  
  "priority": 1,  
  "speed_limit": 0,  
  "migrate_speed": 0,  
  "start_target_server": true,  
  "error_json": "",  
  "total_time": 935000,  
  "float_ip": "192.168.0.xxx",  
  "migration_ip": "192.168.0.xxx",  
  "vm_template_id": null,  
  "region_name": "region_name",  
  "region_id": "region_id",  
  "project_name": "project_name",  
  "project_id": "05825205120026802ff0c01721bc1xxx",  
  "sub_tasks": [  
    {  
      "id": 3514,  
      "name": "SSL_CONFIG",  
      "progress": 100,  
      "start_date": 1600159847000,  
    }  
  ]  
}
```

```
"end_date": 1600159851000,
"user_op": "REPLICATE"
},
{
  "id": 3515,
  "name": "ATTACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600159851000,
  "end_date": 1600160027000,
  "user_op": "REPLICATE"
},
{
  "id": 3516,
  "name": "FORMAT_DISK_LINUX_FILE",
  "progress": 100,
  "start_date": 1600160027000,
  "end_date": 1600160030000,
  "user_op": "REPLICATE"
},
{
  "id": 3517,
  "name": "MIGRATE_LINUX_FILE",
  "progress": 100,
  "start_date": 1600160080000,
  "end_date": 1600160088000,
  "user_op": "REPLICATE"
},
{
  "id": 3582,
  "name": "CONFIGURE_LINUX_FILE",
  "progress": 100,
  "start_date": 1600333914000,
  "end_date": 1600334025000,
  "user_op": "CUTOVER0"
},
{
  "id": 3583,
  "name": "DETTACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600334029000,
  "end_date": 1600334103000,
  "user_op": "CUTOVER0"
},
{
  "id": 3584,
  "name": "SSL_CONFIG",
  "progress": 100,
  "start_date": 1600334185000,
  "end_date": 1600334188000,
  "user_op": "RESYNCO"
},
{
  "id": 3585,
  "name": "ATTACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600334189000,
  "end_date": 1600334375000,
  "user_op": "RESYNCO"
},
{
  "id": 3586,
  "name": "SYNC_LINUX_FILE",
  "progress": 100,
  "start_date": 1600334375000,
  "end_date": 1600334376000,
  "user_op": "RESYNCO"
},
{
  "id": 3587,
```

```

"name": "CONFIGURE_LINUX_FILE",
"progress": 100,
"start_date": 1600342952000,
"end_date": 1600343052000,
"user_op": "CUTOVER1"
},
{
  "id": 3588,
  "name": "DETACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600343056000,
  "end_date": 1600343128000,
  "user_op": "CUTOVER1"
},
{
  "id": 3589,
  "name": "SSL_CONFIG",
  "progress": 100,
  "start_date": 1600390756000,
  "end_date": 1600390760000,
  "user_op": "RESYNC1"
},
{
  "id": 3590,
  "name": "ATTACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600390760000,
  "end_date": 1600390953000,
  "user_op": "RESYNC1"
},
{
  "id": 3591,
  "name": "SYNC_LINUX_FILE",
  "progress": 100,
  "start_date": 1600390954000,
  "end_date": 1600390954000,
  "user_op": "RESYNC1"
}
},
"source_server": {
  "id": "621f2cb5-ba4f-4819-b00d-ee48ca2c35ea",
  "ip": "192.168.0.176",
  "name": "ecs-4bb4",
  "os_type": "LINUX",
  "os_version": "CENTOS_7_6_64BIT",
  "oem_system": false,
  "state": "syncing",
  "migration_cycle": "syncing"
},
"target_server": {
  "id": "de35f45d-b6d5-4769-9148-984c8fab4xxx",
  "vm_id": "6d51477f-0a02-4917-8d7d-b13969f4axxx",
  "name": "ecs-4bb4",
  "ip": null,
  "os_type": "LINUX",
  "os_version": null,
  "system_dir": null,
  "disks": [
    {
      "id": 86364,
      "name": "/dev/sda",
      "relation_name": "/dev/vda",
      "disk_id": "ed3c78d0-3166-48d1-bee0-d29e7d834xxx",
      "partition_style": "MBR",
      "size": 42949672960,
      "used_size": 42948624384,
      "device_use": "BOOT",
      "os_disk": false,
      "physical_volumes": [

```

```
{
  "id": 132594,
  "uuid": null,
  "index": 0,
  "name": "/dev/sda1",
  "relation_name": "/dev/vda1",
  "device_use": "OS",
  "file_system": "ext4",
  "mount_point": "/",
  "size": 42948624384,
  "used_size": 2467393536,
  "free_size": 40481230848
}
],
"disk_index": "z"
}
],
"volume_groups": [],
"image_disk_id": "9700f5ce-02ae-4a71-a057-deffe9b69xxx",
"rollback_snapshot_ids": null
},
"clone_server": null,
"target_snapshot_id": null,
"remain_seconds": 60000
}
```

state表示任务执行状态，ABORT代表任务终止。

#### 步骤4 调用删除任务接口删除迁移任务。

- 接口相关信息

URI格式:

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

详情请参见[删除指定ID的迁移任务](#)。

- 请求示例

```
https://sms.ap-southeast-1.myhuaweicloud.com/v3/tasks/8abda8635e09d185015e09d188dd0001xx
```

Header:

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

响应200表示删除成功。

----结束



# 5 API v3

## 5.1 查询 API 版本信息

### 5.1.1 查询主机迁移服务的 API 版本信息

#### 功能介绍

查询主机迁移服务的API版本信息。

#### 调用方法

请参见[如何调用API](#)。

#### URI

GET /

#### 请求参数

表 5-1 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

#### 响应参数

状态码：200

表 5-2 响应 Body 参数

参数	参数类型	描述
versions	Array of <b>Version</b> objects	描述主机迁移服务API版本信息列表。 数组长度： <b>0 - 1024</b>

表 5-3 Version

参数	参数类型	描述
id	String	API版本号。 最小长度： <b>0</b> 最大长度： <b>255</b>
links	Array of <b>Link</b> objects	API链接地址信息。 数组长度： <b>0 - 1024</b>
status	String	版本状态。SUPPORTED表示支持的版本 最小长度： <b>0</b> 最大长度： <b>255</b>
updated	String	版本更新时间。格式为“yyyy-mm-dd Thh:mm:ssZ”。其中，T指某个时间的开始；Z指UTC时间。例如： 2018-09-30T00:00:00Z 最小长度： <b>0</b> 最大长度： <b>255</b>

表 5-4 Link

参数	参数类型	描述
href	String	API的url地址。 最小长度： <b>0</b> 最大长度： <b>1024</b>
rel	String	取值为“self”，表示href为本地链接。 最小长度： <b>0</b> 最大长度： <b>1024</b>

## 请求示例

查询支持的API版本列表。

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

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

## 响应示例

**状态码： 200**

查询支持的API版本列表成功

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

## SDK 代码示例

SDK代码示例如下。

### Java

查询支持的API版本列表。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ListApiVersionSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
```

```

        .withCredential(auth)
        .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
        .build();
ListApiVersionRequest request = new ListApiVersionRequest();
try {
    ListApiVersionResponse response = client.listApiVersion(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
}

```

## Python

查询支持的API版本列表。

```

# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListApiVersionRequest()
        response = client.list_api_version(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)

```

## Go

查询支持的API版本列表。

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"

```

```

sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
"github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListApiVersionRequest{}
    response, err := client.ListApiVersion(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}

```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	查询支持的API版本列表成功

## 错误码

请参见[错误码](#)。

### 5.1.2 查询主机迁移服务指定 API 版本信息

#### 功能介绍

查询主机迁移服务指定API版本信息。

#### 调用方法

请参见[如何调用API](#)。

## URI

GET /{version}

表 5-5 路径参数

参数	是否必选	参数类型	描述
version	是	String	版本信息 最小长度：1 最大长度：10

## 请求参数

无

## 响应参数

状态码：200

表 5-6 响应 Body 参数

参数	参数类型	描述
id	String	API版本号。 最小长度：0 最大长度：255
links	Array of <a href="#">Link</a> objects	API链接地址信息。 数组长度：0 - 1024
status	String	版本状态。SUPPORTED表示支持的版本 最小长度：0 最大长度：255
updated	String	版本更新时间。格式为“yyyy-mm-dd Thh:mm:ssZ”。其中，T指某个时间的开始；Z指UTC时间。例如： 2018-09-30T00:00:00Z 最小长度：0 最大长度：255

表 5-7 Link

参数	参数类型	描述
href	String	API的url地址。 最小长度： <b>0</b> 最大长度： <b>1024</b>
rel	String	取值为“self”，表示href为本地链接。 最小长度： <b>0</b> 最大长度： <b>1024</b>

## 请求示例

获取版本信息。

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

## 响应示例

状态码：**200**

查询主机迁移服务指定API版本信息成功

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

## SDK 代码示例

SDK代码示例如下。

### Java

获取版本信息。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
```

```
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ShowApiVersionSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowApiVersionRequest request = new ShowApiVersionRequest();
        request.withVersion("{version}");
        try {
            ShowApiVersionResponse response = client.showApiVersion(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

获取版本信息。

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
```



```
.build()

try:
    request = ShowApiVersionRequest()
    request.version = "{version}"
    response = client.show_api_version(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

获取版本信息。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowApiVersionRequest{}
    request.Version = "{version}"
    response, err := client.ShowApiVersion(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	查询主机迁移服务指定API版本信息成功

## 错误码

请参见[错误码](#)。

## 5.2 Agent 运行

### 5.2.1 获取 Agent 配置信息

#### 功能介绍

源端Agent启动后，访问此接口获取配置信息。

#### 调用方法

请参见[如何调用API](#)。

#### URI

GET /v3/config

#### 请求参数

表 5-8 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	用户Token。 通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

#### 响应参数

状态码： 200

表 5-9 响应 Body 参数

参数	参数类型	描述
config	Map<String,String>	mainRegion,obs_domain,disktype,process_and_it及以后增加的信息
regions	Array of Map<String,Object> objects	region数组 数组长度: 1 - 100

状态码: 400

表 5-10 响应 Body 参数

参数	参数类型	描述
error_code	String	错误码 最小长度: 0 最大长度: 255
error_msg	String	错误信息 最小长度: 0 最大长度: 1024

状态码: 403

表 5-11 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度: 0 最大长度: 255
error_msg	String	错误信息 最小长度: 0 最大长度: 255
encoded_authorization_message	String	加密授权信息 最小长度: 0 最大长度: 65535
error_param	Array of strings	错误参数 最小长度: 0 最大长度: 65535 数组长度: 1 - 20

参数	参数类型	描述
details	Array of <b>details</b> objects	详细错误信息 数组长度: 1 - 20

表 5-12 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度: 0 最大长度: 65535
error_msg	String	SMS错误信息 最小长度: 0 最大长度: 65535

## 请求示例

获取endpoint下的配置信息

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

## 响应示例

**状态码: 200**

获取配置信息成功

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

**状态码: 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

```
    }  
  }  
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.GlobalCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;  
import com.huaweicloud.sdk.sms.v3.*;  
import com.huaweicloud.sdk.sms.v3.model.*;  
  
public class ShowConfigSolution {  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
  
        ICredential auth = new GlobalCredentials()  
            .withAk(ak)  
            .withSk(sk);  
  
        SmsClient client = SmsClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))  
            .build();  
        ShowConfigRequest request = new ShowConfigRequest();  
        try {  
            ShowConfigResponse response = client.showConfig(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getHttpStatusCode());  
            System.out.println(e.getRequestId());  
            System.out.println(e.getErrorCode());  
            System.out.println(e.getErrorMsg());  
        }  
    }  
}
```

### Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import GlobalCredentials  
from huaweicloudsdksms.v3.region.sms_region import SmsRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdksms.v3 import *
```

```
if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowConfigRequest()
        response = client.show_config(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowConfigRequest{}
    response, err := client.ShowConfig(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	获取配置信息成功
400	获取配置信息失败
403	鉴权失败

## 错误码

请参见[错误码](#)。

## 5.3 源端管理

### 5.3.1 查询待迁移源端的所有错误

#### 功能介绍

主机迁移过程中可能发生错误，使用该接口可以批量查询迁移过程中出现错误的源端服务器信息，以及它们的错误信息。

#### 调用方法

请参见[如何调用API](#)。

#### URI

GET /v3/errors

表 5-13 Query 参数

参数	是否必选	参数类型	描述
limit	否	Integer	每一页记录的错误数量 最小值：0 最大值：100 缺省值：50

参数	是否必选	参数类型	描述
offset	是	Integer	偏移量 最小值：0 最大值：65535 缺省值：0
migproject	否	String	需要查询的迁移项目ID，添加此字段将只查询对应ID下的迁移任务报错信息 最小长度：0 最大长度：255
enterprise_project_id	否	String	需要查询的企业项目ID 最小长度：0 最大长度：255

## 请求参数

表 5-14 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

## 响应参数

状态码： 200

表 5-15 响应 Body 参数

参数	参数类型	描述
count	Integer	迁移过程中发生错误的源端数量 最小值：0 最大值：2147483647
migration_errors	Array of <b>MigrationErrors</b> objects	迁移过程中发生的错误详情 数组长度：0 - 65535



表 5-16 MigrationErrors

参数	参数类型	描述
error_json	String	保存错误信息的json字符串 最小长度：0 最大长度：255
host_name	String	主机名称（从用户系统获取，可能为空） 最小长度：0 最大长度：255
name	String	源端在主机迁移服务中的名称 最小长度：0 最大长度：255
source_id	String	源端服务器ID 最小长度：0 最大长度：255
source_ip	String	源端服务器的ip 最小长度：0 最大长度：255
target_ip	String	目的端服务器的ip 最小长度：0 最大长度：255

状态码： 403

表 5-17 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度：0 最大长度：255
error_msg	String	错误信息 最小长度：0 最大长度：255
encoded_authorization_message	String	加密授权信息 最小长度：0 最大长度：65535

参数	参数类型	描述
error_param	Array of strings	错误参数 最小长度: 0 最大长度: 65535 数组长度: 1 - 20
details	Array of <b>details</b> objects	详细错误信息 数组长度: 1 - 20

表 5-18 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度: 0 最大长度: 65535
error_msg	String	SMS错误信息 最小长度: 0 最大长度: 65535

## 请求示例

批量查询迁移过程中出现错误的源端服务器信息，每页10个源端，查看第0页。

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

## 响应示例

**状态码: 200**

查询待迁移源端的所有错误成功

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

```

    "name" : "sms-win16",
    "host_name" : "sms-win16",
    "error_json" : "{\"error_code\":\"SMS.1114\", \"error_param\": \"[]\"}"
  }, {
    "source_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "source_ip" : "192.168.77.77",
    "target_ip" : null,
    "name" : "sms-centos",
    "host_name" : null,
    "error_json" : "{\"error_code\":\"SMS.3805\", \"error_param\": \"[]\"}"
  }
}

```

**状态码： 403**

鉴权失败

```

{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}

```

## SDK 代码示例

SDK代码示例如下。

### Java

```

package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ListErrorServersSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        ListErrorServersRequest request = new ListErrorServersRequest();
        try {

```

```

        ListErrorServersResponse response = client.listErrorServers(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
}

```

## Python

```

# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListErrorServersRequest()
        response = client.list_error_servers(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)

```

## Go

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this

```

```
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

auth := global.NewCredentialsBuilder().
    WithAk(ak).
    WithSk(sk).
    Build()

client := sms.NewSmsClient(
    sms.SmsClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ListErrorServersRequest{}
response, err := client.ListErrorServers(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	查询待迁移源端的所有错误成功
403	鉴权失败

## 错误码

请参见[错误码](#)。

## 5.3.2 上报源端服务器基本信息

### 功能介绍

上报源端服务器信息，上报成功后会在sms服务器列表中看到对应的源端服务器信息。

### 调用方法

请参见[如何调用API](#)。

### URI

POST /v3/sources

## 请求参数

表 5-19 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	用户Token。 通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

表 5-20 请求 Body 参数

参数	是否必选	参数类型	描述
id	否	String	源端在SMS数据库中的ID 最小长度：0 最大长度：255
ip	否	String	源端服务器ip，注册源端时必选，更新非必选 最小长度：0 最大长度：255
name	否	String	用来区分不同源端服务器的名称 最小长度：0 最大长度：255
hostname	否	String	源端主机名，注册源端必选，更新非必选 最小长度：0 最大长度：255
os_type	否	String	源端服务器的OS类型，分为Windows和Linux，注册必选，更新非必选 最小长度：0 最大长度：255 枚举值： <ul style="list-style-type: none"> <li>● WINDOWS</li> <li>● LINUX</li> </ul>

参数	是否必选	参数类型	描述
os_version	否	String	操作系统版本，注册必选，更新非必选 最小长度：0 最大长度：255
virtualization_type	否	String	操作系统虚拟化方式 最小长度：0 最大长度：255
linux_block_check	否	String	Linux操作系统块检查 最小长度：0 最大长度：255
firmware	否	String	源端服务器启动类型，如BIOS或者UEFI 最小长度：0 最大长度：255 枚举值： <ul style="list-style-type: none"> <li>• BIOS</li> <li>• UEFI</li> </ul>
cpu_quantity	否	Integer	CPU个数，单位vCPU 最小值：0 最大值：65535
memory	否	Long	内存大小，单位MB 最小值：0 最大值： 9223372036854775807
disks	否	Array of <a href="#">ServerDisk</a> objects	源端服务器的磁盘信息 数组长度：0 - 65535
btrfs_list	否	Array of <a href="#">BtrfsFilesystem</a> objects	Linux 必选，源端的Btrfs信息。如果源端不存在Btrfs，则为[] 数组长度：0 - 65535
networks	否	Array of <a href="#">NetWork</a> objects	源端服务器的网卡信息 数组长度：0 - 65535
domain_id	否	String	租户的domainId 最小长度：0 最大长度：255
has_rsync	否	Boolean	是否安装rsync组件，Linux系统此参数为必选

参数	是否必选	参数类型	描述
paravirtualization	否	Boolean	Linux场景必选，源端是否是半虚拟化
raw_devices	否	String	Linux必选，裸设备列表 最小长度： <b>0</b> 最大长度： <b>255</b>
driver_files	否	Boolean	Windows 必选，是否缺少驱动文件
system_services	否	Boolean	Windows必选，是否存在不正常服务
account_rights	否	Boolean	Windows必选，权限是否满足要求
boot_loader	否	String	Linux必选，系统引导类型，BOOT_LOADER(GRUB/LILO) 枚举值： <ul style="list-style-type: none"> <li>• <b>GRUB</b></li> <li>• <b>LILO</b></li> </ul>
system_dir	否	String	Windows必选，系统目录 最小长度： <b>0</b> 最大长度： <b>255</b>
volume_groups	否	Array of <b>VolumeGroups</b> objects	Linux必选，如果没有卷组，输入[] 数组长度： <b>0 - 65535</b>
agent_version	否	String	Agent版本 最小长度： <b>0</b> 最大长度： <b>255</b>
kernel_version	否	String	内核版本信息 最小长度： <b>0</b> 最大长度： <b>255</b>



参数	是否必选	参数类型	描述
migration_cycle	否	String	迁移周期 cutovering:启动目的端中 cutovered:启动目的端完成 checking:检查中 setting:设置中 replicating:复制中 syncing:同步中 枚举值: <ul style="list-style-type: none"> <li>● <b>cutovering</b></li> <li>● <b>cutovered</b></li> <li>● <b>checking</b></li> <li>● <b>setting</b></li> <li>● <b>replicating</b></li> <li>● <b>syncing</b></li> </ul>

参数	是否必选	参数类型	描述
state	否	String	<p>源端服务器状态</p> <p>unavailable: 环境校验不通过</p> <p>waiting: 等待</p> <p>initialize: 初始化</p> <p>replicate: 复制</p> <p>syncing: 持续同步</p> <p>stopping: 暂停中</p> <p>stopped: 已暂停</p> <p>deleting: 删除中</p> <p>error: 错误</p> <p>cloning: 等待克隆完成</p> <p>cutovering: 启动目的端中</p> <p>finished: 启动目的端完成</p> <p>最小长度: 0</p> <p>最大长度: 255</p> <p>枚举值:</p> <ul style="list-style-type: none"> <li>● <b>unavailable</b></li> <li>● <b>waiting</b></li> <li>● <b>initialize</b></li> <li>● <b>replicate</b></li> <li>● <b>syncing</b></li> <li>● <b>stopping</b></li> <li>● <b>stopped</b></li> <li>● <b>deleting</b></li> <li>● <b>error</b></li> <li>● <b>cloning</b></li> <li>● <b>cutovering</b></li> <li>● <b>finished</b></li> </ul>
oem_system	否	Boolean	是否是OEM操作系统 (Windows)
start_type	否	String	<p>启动方式, 可以取值 MANUAL、MGC或者空。</p> <p>枚举值:</p> <ul style="list-style-type: none"> <li>● <b>MANUAL</b></li> <li>● <b>MGC</b></li> </ul>

参数	是否必选	参数类型	描述
io_read_wait	否	Double	磁盘IO读时延，单位为ms 最小值： <b>0.0</b> 最大值： <b>10000.0</b>
has_tc	否	Boolean	是否安装tc组件，Linux系统此参数为必选
platform	否	String	平台信息： hw：华为 ali：阿里 aws：亚马逊 azure：微软云 gcp：谷歌云 tencent：腾讯云 vmware： hyperv other：其他 枚举值： <ul style="list-style-type: none"> <li>• hw</li> <li>• ali</li> <li>• aws</li> <li>• azure</li> <li>• gcp</li> <li>• tencent</li> <li>• vmware</li> <li>• hyperv</li> <li>• other</li> </ul>

表 5-21 ServerDisk

参数	是否必选	参数类型	描述
name	是	String	磁盘名称 最小长度： <b>0</b> 最大长度： <b>255</b>

参数	是否必选	参数类型	描述
partition_style	否	String	磁盘的分区类型，添加源端时源端磁盘必选 MBR: mbr格式 GPT: gpt格式 枚举值： <ul style="list-style-type: none"> <li>• MBR</li> <li>• GPT</li> </ul>
device_use	是	String	磁盘类型 BOOT: BOOT设备 OS: 系统设备 枚举值： <ul style="list-style-type: none"> <li>• BOOT</li> <li>• OS</li> </ul>
size	是	Long	磁盘总大小，以字节为单位 最小值: 0 最大值: <b>9223372036854775807</b>
used_size	是	Long	磁盘已使用大小，以字节为单位 最小值: 0 最大值: <b>9223372036854775807</b>
physical_volumes	是	Array of <b>PhysicalVolume</b> objects	磁盘上的物理分区信息 数组长度: 0 - 65535
os_disk	否	Boolean	是否为系统盘
relation_name	否	String	Linux系统 目的端ECS中与源端关联的磁盘名称 最小长度: 0 最大长度: 255
inode_size	否	Integer	inode数量 最小值: 0 最大值: 2147483647

表 5-22 PhysicalVolume

参数	是否必选	参数类型	描述
device_use	否	String	分区类型，普通分区，启动分区，系统分区 最小长度：0 最大长度：255
file_system	否	String	文件系统类型 最小长度：0 最大长度：255
index	否	Integer	顺序 最小值：0 最大值：2147483647
mount_point	否	String	挂载点 最小长度：0 最大长度：255
name	否	String	名称，windows表示盘符，Linux表示设备号 最小长度：0 最大长度：255
size	否	Long	大小 最小值：0 最大值： 9223372036854775807
used_size	否	Long	使用大小 最小值：0 最大值： 9223372036854775807
inode_size	否	Integer	inode数量 最小值：0 最大值：2147483647
inode_nums	否	Long	inode节点数量 最小值：0 最大值： 9223372036854775807
uuid	否	String	GUID，可从源端查询 最小长度：0 最大长度：255

参数	是否必选	参数类型	描述
size_per_cluster	否	Integer	每个cluster大小 最小值： <b>0</b> 最大值： <b>2147483647</b>

表 5-23 BtrfsFileSystem

参数	是否必选	参数类型	描述
name	是	String	文件系统名称 最小长度： <b>0</b> 最大长度： <b>255</b>
label	是	String	文件系统标签，若无标签为空字符串 最小长度： <b>0</b> 最大长度： <b>255</b>
uuid	是	String	文件系统的uuid 最小长度： <b>0</b> 最大长度： <b>255</b>
device	是	String	btrfs包含的设备名称 最小长度： <b>0</b> 最大长度： <b>255</b>
size	是	Long	文件系统数据占用大小 最小值： <b>0</b> 最大值： <b>9223372036854775807</b>
nodesize	是	Long	btrfs节点大小 最小值： <b>0</b> 最大值： <b>9223372036854775807</b>
sectorsize	是	Integer	扇区大小 最小值： <b>0</b> 最大值： <b>2147483647</b>
data_profile	是	String	数据配置 (RAD) 最小长度： <b>0</b> 最大长度： <b>255</b>

参数	是否必选	参数类型	描述
system_profile	是	String	文件系统配置 (RAD) 最小长度: 0 最大长度: 255
metadata_profile	是	String	元数据配置 (RAD) 最小长度: 0 最大长度: 255
global_reserve1	是	String	Btrfs文件系统信息 最小长度: 0 最大长度: 255
g_vol_used_size	是	Long	Btrfs卷已使用空间大小 最小值: 0 最大值: <b>9223372036854775807</b>
default_subvol_id	是	String	默认子卷ID 最小长度: 0 最大长度: 255
default_subvol_name	是	String	默认子卷名称 最小长度: 0 最大长度: 255
default_subvol_mountpath	是	String	默认子卷挂载路径/BTRFS文件系统的挂载路径 最小长度: 0 最大长度: 255
subvolumn	是	Array of <b>BtrfsSubvolumn</b> objects	子卷信息 数组长度: 0 - 65535

表 5-24 BtrfsSubvolumn

参数	是否必选	参数类型	描述
uuid	是	String	父卷的uuid 最小长度: 0 最大长度: 255
is_snapshot	是	String	子卷是否为快照 最小长度: 0 最大长度: 255

参数	是否必选	参数类型	描述
subvol_id	是	String	子卷的ID 最小长度：0 最大长度：255
parent_id	是	String	父卷ID 最小长度：0 最大长度：255
subvol_name	是	String	子卷的名称 最小长度：0 最大长度：255
subvol_mount_path	是	String	子卷的挂载路径 最小长度：0 最大长度：255

表 5-25 NetWork

参数	是否必选	参数类型	描述
name	是	String	网卡的名称 最小长度：0 最大长度：255
ip	是	String	该网卡绑定的IP 最小长度：0 最大长度：255
ipv6	否	String	IPv6地址 最小长度：0 最大长度：255
netmask	是	String	掩码 最小长度：0 最大长度：255
gateway	是	String	网关 最小长度：0 最大长度：255
mtu	否	Integer	Linux必选，网卡的MTU 最小值：0 最大值：2147483647



参数	是否必选	参数类型	描述
mac	是	String	Mac地址 最小长度：0 最大长度：255
id	否	String	数据库ID 最小长度：0 最大长度：255

表 5-26 VolumeGroups

参数	是否必选	参数类型	描述
components	否	String	Pv信息 最小长度：0 最大长度：255
free_size	否	Long	剩余空间 最小值：0 最大值： 9223372036854775807
logical_volumes	否	Array of LogicalVolumes objects	lv信息 数组长度：0 - 255
name	否	String	名称 最小长度：0 最大长度：255
size	否	Long	大小 最小值：0 最大值： 9223372036854775807

表 5-27 LogicalVolumes

参数	是否必选	参数类型	描述
block_count	否	Integer	块数量 最小值：0 最大值：2147483647 缺省值：0

参数	是否必选	参数类型	描述
block_size	否	Long	块大小 最小值: 0 最大值: 1048576 缺省值: 0
file_system	是	String	文件系统 最小长度: 0 最大长度: 255
inode_size	是	Integer	inode数量 最小值: 0 最大值: 2147483647
inode_nums	否	Long	inode节点数量 最小值: 0 最大值: 9223372036854775807
device_use	否	String	分区类型, 普通分区, 启动分区, 系统分区 最小长度: 0 最大长度: 255
mount_point	是	String	挂载点 最小长度: 0 最大长度: 256
name	是	String	名称 最小长度: 0 最大长度: 1024
size	是	Long	大小 最小值: 0 最大值: 9223372036854775807
used_size	是	Long	使用大小 最小值: 0 最大值: 9223372036854775807
free_size	是	Long	剩余空间 最小值: 0 最大值: 9223372036854775807

## 响应参数

状态码： 200

表 5-28 响应 Body 参数

参数	参数类型	描述
id	String	源端ID 最小长度： 0 最大长度： 255

状态码： 403

表 5-29 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度： 0 最大长度： 255
error_msg	String	错误信息 最小长度： 0 最大长度： 255
encoded_authorization_message	String	加密授权信息 最小长度： 0 最大长度： 65535
error_param	Array of strings	错误参数 最小长度： 0 最大长度： 65535 数组长度： 1 - 20
details	Array of <a href="#">details</a> objects	详细错误信息 数组长度： 1 - 20

表 5-30 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度： 0 最大长度： 65535

参数	参数类型	描述
error_msg	String	SMS错误信息 最小长度： <b>0</b> 最大长度： <b>65535</b>

## 请求示例

上报源端服务器信息，源端的OS类型是Linux，名称是host-192-168-136-xxx，ip是192.168.136.xxx，操作系统版本是SUSE12\_64BIT\_SP2，系统盘的名称是/dev/vda，系统盘的磁盘类型是BOOT，系统盘总大小为42949672960，上报成功后会在sms服务器列表中看到对应的源端服务器信息。

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

```
{
  "os_type": "LINUX",
  "name": "host-192-168-136-xxx",
  "os_version": "SUSE12_64BIT_SP2",
  "linux_block_check": "{\"release_type\": \"SUSE\", \"release_version\": \"12.2\", \"kernel_simplification\": \"4.4.21\", \"architecture\": \"x86_64\", \"kernel_version\": \"4.4.21-69-default\"}",
  "kernel_version": "4.4.21-69-default",
  "virtualization_type": "HVM",
  "paravirtualization": true,
  "firmware": "BIOS",
  "has_rsync": true,
  "io_read_wait": 3.4,
  "boot_loader": "GRUB",
  "disks": [ {
    "name": "/dev/vda",
    "device_use": "BOOT",
    "size": 42949672960,
    "partition_style": "MBR",
    "used_size": 42948624384,
    "physical_volumes": [ {
      "name": "/dev/vda1",
      "size": 2153775104,
      "device_use": "NORMAL",
      "used_size": 2153775104,
      "inode_size": 0,
      "inode_nums": 0,
      "file_system": "swap",
      "mount_point": ""
    }
  ], {
    "name": "/dev/vda2",
    "size": 16862150656,
    "device_use": "BTRFS",
    "used_size": 16862150656,
    "inode_size": 0,
    "inode_nums": 0,
    "file_system": "btrfs",
    "mount_point": ""
  }, {
    "name": "/dev/vda3",
    "size": 23932698624,
    "device_use": "NORMAL",
    "used_size": 33988608,
    "inode_size": 0,
    "inode_nums": 12345,
    "file_system": "xfs",
    "mount_point": "/home"
  }
  ]
}, {
```

```

"name" : "/dev/vdb",
"device_use" : "NORMAL",
"size" : 21474836480,
"partition_style" : "MBR",
"used_size" : 21473787904,
"physical_volumes" : [ {
  "name" : "/dev/vdb1",
  "size" : 21473787904,
  "device_use" : "VOLUME_GROUP",
  "used_size" : 21473787904,
  "inode_size" : 0,
  "inode_nums" : 0,
  "file_system" : "LVM2_member",
  "mount_point" : ""
} ]
}, {
  "name" : "/dev/vdc",
  "device_use" : "VOLUME_GROUP",
  "size" : 21474836480,
  "partition_style" : "MBR",
  "used_size" : 0,
  "physical_volumes" : [ ]
} ],
"volume_groups" : [ {
  "name" : "vg1",
  "size" : 42948624384,
  "components" : "/dev/vdb1;/dev/vdc",
  "logical_volumes" : [ {
    "name" : "/dev/mapper/vg1-lv1",
    "device_use" : "NORMAL",
    "size" : 10737418240,
    "free_size" : 10713837568,
    "used_size" : 23580672,
    "file_system" : "ext4",
    "mount_point" : "/mnt/lv1",
    "inode_nums" : 12345,
    "inode_size" : "256"
  } ]
} ],
"btrfs_list" : [ {
  "name" : "/dev/vda2",
  "label" : "none",
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "device" : "/dev/vda2",
  "size" : "3.30GiB",
  "nodesize" : "16384",
  "sectorsize" : "4096",
  "data_profile" : "single",
  "system_profile" : "single",
  "metadata_profile" : "single",
  "global_reserve1" : "single",
  "g_vol_used_size" : "3894038528",
  "default_subvolid" : "259",
  "default_subvol_name" : "@/.snapshots/1/snapshot",
  "default_subvol_mountpath" : "/",
  "subvolumn" : [ {
    "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "is_snapshot" : "false",
    "subvol_id" : "257",
    "parent_id" : "5",
    "subvol_name" : "@",
    "subvol_mount_path" : "null"
  } ], {
    "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "is_snapshot" : "false",
    "subvol_id" : "258",
    "parent_id" : "257",
    "subvol_name" : "@/.snapshots",
    "subvol_mount_path" : "/.snapshots"
  }
} ]

```

```

}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "true",
  "subvol_id" : "259",
  "parent_id" : "258",
  "subvol_name" : "@/.snapshots/1/snapshot",
  "subvol_mount_path" : "/"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "260",
  "parent_id" : "257",
  "subvol_name" : "@/boot/grub2/i386-pc",
  "subvol_mount_path" : "/boot/grub2/i386-pc"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "261",
  "parent_id" : "257",
  "subvol_name" : "@/boot/grub2/x86_64-efi",
  "subvol_mount_path" : "/boot/grub2/x86_64-efi"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "262",
  "parent_id" : "257",
  "subvol_name" : "@/opt",
  "subvol_mount_path" : "/opt"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "263",
  "parent_id" : "257",
  "subvol_name" : "@/srv",
  "subvol_mount_path" : "/srv"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "264",
  "parent_id" : "257",
  "subvol_name" : "@/tmp",
  "subvol_mount_path" : "/tmp"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "265",
  "parent_id" : "257",
  "subvol_name" : "@/usr/local",
  "subvol_mount_path" : "/usr/local"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "266",
  "parent_id" : "257",
  "subvol_name" : "@/var/cache",
  "subvol_mount_path" : "/var/cache"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "267",
  "parent_id" : "257",
  "subvol_name" : "@/var/crash",
  "subvol_mount_path" : "/var/crash"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "268",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/libvirt/images",

```

```

"subvol_mount_path" : "/var/lib/libvirt/images"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "269",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/machines",
  "subvol_mount_path" : "/var/lib/machines"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "270",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/mailman",
  "subvol_mount_path" : "/var/lib/mailman"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "271",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/mariadb",
  "subvol_mount_path" : "/var/lib/mariadb"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "272",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/mysql",
  "subvol_mount_path" : "/var/lib/mysql"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "273",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/named",
  "subvol_mount_path" : "/var/lib/named"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "274",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/pgsql",
  "subvol_mount_path" : "/var/lib/pgsql"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "275",
  "parent_id" : "257",
  "subvol_name" : "@/var/log",
  "subvol_mount_path" : "/var/log"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "276",
  "parent_id" : "257",
  "subvol_name" : "@/var/opt",
  "subvol_mount_path" : "/var/opt"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "277",
  "parent_id" : "257",
  "subvol_name" : "@/var/spool",
  "subvol_mount_path" : "/var/spool"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "278",
  "parent_id" : "257",

```

```

"subvol_name" : "@/var/tmp",
"subvol_mount_path" : "/var/tmp"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "true",
  "subvol_id" : "282",
  "parent_id" : "258",
  "subvol_name" : "@/.snapshots/2/snapshot",
  "subvol_mount_path" : "null"
}]
}],
"cpu_quantity" : 1,
"memory" : 934752256,
"networks" : [ {
  "name" : "eth0",
  "ip" : "192.168.136.xxx",
  "netmask" : "netmask",
  "gateway" : "gateway",
  "mac" : "1a9660eb8a3ffcf4df6d7865b52eb54f7b0cd194029e0eadd8e2c7f1267d80c0"
}],
"ip" : "192.168.136.xxx",
"agent_version" : "2.2.1",
"platform" : "hw"
}

```

## 响应示例

**状态码： 200**

源端注册成功

```

{
  "id" : "xxxxxxxxxxxxxxxxxxxxxxxxxxxx00000001"
}

```

**状态码： 403**

鉴权失败

```

{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}

```

## SDK 代码示例

SDK代码示例如下。

### Java

上报源端服务器信息，源端的OS类型是Linux，名称是host-192-168-136-xxx，ip是192.168.136.xxx，操作系统版本是SUSE12\_64BIT\_SP2，系统盘的名称是/dev/vda，系统盘的磁盘类型是BOOT，系统盘总大小为42949672960，上报成功后会在sms服务器列表中看到对应的源端服务器信息。

```

package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;

```



```

import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class RegisterServerSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        RegisterServerRequest request = new RegisterServerRequest();
        PostSourceServerBody body = new PostSourceServerBody();
        List<LogicalVolumes> listVolumeGroupsLogicalVolumes = new ArrayList<>();
        listVolumeGroupsLogicalVolumes.add(
            new LogicalVolumes()
                .withFileSystem("ext4")
                .withInodeSize(256)
                .withInodeNums(12345L)
                .withDeviceUse("NORMAL")
                .withMountPoint("/mnt/lv1")
                .withName("/dev/mapper/vg1-lv1")
                .withSize(10737418240L)
                .withUsedSize(23580672L)
                .withFreeSize(10713837568L)
        );
        List<VolumeGroups> listbodyVolumeGroups = new ArrayList<>();
        listbodyVolumeGroups.add(
            new VolumeGroups()
                .withComponents("/dev/vdb1;/dev/vdc")
                .withLogicalVolumes(listVolumeGroupsLogicalVolumes)
                .withName("vg1")
                .withSize(42948624384L)
        );
        List<NetWork> listbodyNetworks = new ArrayList<>();
        listbodyNetworks.add(
            new NetWork()
                .withName("eth0")
                .withIp("192.168.136.xxx")
                .withNetmask("netmask")
                .withGateway("gateway")
                .withMac("1a9660eb8a3ffcf4df6d7865b52eb54f7b0cd194029e0eadd8e2c7f1267d80c0")
        );
        List<BtrfsSubvolumn> listBtrfsListSubvolumn = new ArrayList<>();
        listBtrfsListSubvolumn.add(
            new BtrfsSubvolumn()
                .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
                .withIsSnapshot("false")
                .withSubvolId("257")
                .withParentId("5")
        );
    }
}

```

```

        .withSubvolName("@")
        .withSubvolMountPath("null")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("258")
            .withParentId("257")
            .withSubvolName("@/.snapshots")
            .withSubvolMountPath("/.snapshots")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("true")
            .withSubvolId("259")
            .withParentId("258")
            .withSubvolName("@/.snapshots/1/snapshot")
            .withSubvolMountPath("/")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("260")
            .withParentId("257")
            .withSubvolName("@/boot/grub2/i386-pc")
            .withSubvolMountPath("/boot/grub2/i386-pc")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("261")
            .withParentId("257")
            .withSubvolName("@/boot/grub2/x86_64-efi")
            .withSubvolMountPath("/boot/grub2/x86_64-efi")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("262")
            .withParentId("257")
            .withSubvolName("@/opt")
            .withSubvolMountPath("/opt")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("263")
            .withParentId("257")
            .withSubvolName("@/srv")
            .withSubvolMountPath("/srv")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("264")
            .withParentId("257")
            .withSubvolName("@/tmp")
            .withSubvolMountPath("/tmp")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")

```

```

        .withIsSnapshot("false")
        .withSubvolId("265")
        .withParentId("257")
        .withSubvolName("@/usr/local")
        .withSubvolMountPath("/usr/local")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("266")
            .withParentId("257")
            .withSubvolName("@/var/cache")
            .withSubvolMountPath("/var/cache")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("267")
            .withParentId("257")
            .withSubvolName("@/var/crash")
            .withSubvolMountPath("/var/crash")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("268")
            .withParentId("257")
            .withSubvolName("@/var/lib/libvirt/images")
            .withSubvolMountPath("/var/lib/libvirt/images")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("269")
            .withParentId("257")
            .withSubvolName("@/var/lib/machines")
            .withSubvolMountPath("/var/lib/machines")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("270")
            .withParentId("257")
            .withSubvolName("@/var/lib/mailman")
            .withSubvolMountPath("/var/lib/mailman")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("271")
            .withParentId("257")
            .withSubvolName("@/var/lib/mariadb")
            .withSubvolMountPath("/var/lib/mariadb")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("272")
            .withParentId("257")
            .withSubvolName("@/var/lib/mysql")
            .withSubvolMountPath("/var/lib/mysql")
    );

```

```
listBtrfsListSubvolumn.add(  
    new BtrfsSubvolumn()  
        .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")  
        .withIsSnapshot("false")  
        .withSubvolId("273")  
        .withParentId("257")  
        .withSubvolName("@/var/lib/named")  
        .withSubvolMountPath("/var/lib/named")  
);  
listBtrfsListSubvolumn.add(  
    new BtrfsSubvolumn()  
        .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")  
        .withIsSnapshot("false")  
        .withSubvolId("274")  
        .withParentId("257")  
        .withSubvolName("@/var/lib/pgsql")  
        .withSubvolMountPath("/var/lib/pgsql")  
);  
listBtrfsListSubvolumn.add(  
    new BtrfsSubvolumn()  
        .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")  
        .withIsSnapshot("false")  
        .withSubvolId("275")  
        .withParentId("257")  
        .withSubvolName("@/var/log")  
        .withSubvolMountPath("/var/log")  
);  
listBtrfsListSubvolumn.add(  
    new BtrfsSubvolumn()  
        .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")  
        .withIsSnapshot("false")  
        .withSubvolId("276")  
        .withParentId("257")  
        .withSubvolName("@/var/opt")  
        .withSubvolMountPath("/var/opt")  
);  
listBtrfsListSubvolumn.add(  
    new BtrfsSubvolumn()  
        .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")  
        .withIsSnapshot("false")  
        .withSubvolId("277")  
        .withParentId("257")  
        .withSubvolName("@/var/spool")  
        .withSubvolMountPath("/var/spool")  
);  
listBtrfsListSubvolumn.add(  
    new BtrfsSubvolumn()  
        .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")  
        .withIsSnapshot("false")  
        .withSubvolId("278")  
        .withParentId("257")  
        .withSubvolName("@/var/tmp")  
        .withSubvolMountPath("/var/tmp")  
);  
listBtrfsListSubvolumn.add(  
    new BtrfsSubvolumn()  
        .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")  
        .withIsSnapshot("true")  
        .withSubvolId("282")  
        .withParentId("258")  
        .withSubvolName("@/.snapshots/2/snapshot")  
        .withSubvolMountPath("null")  
);  
List<BtrfsFileSystem> listbodyBtrfsList = new ArrayList<>();  
listbodyBtrfsList.add(  
    new BtrfsFileSystem()  
        .withName("/dev/vda2")  
        .withLabel("none")  
        .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")  
);
```

```

        .withDevice("/dev/vda2")
        .withSize(3.30GiBL)
        .withNodesize(16384L)
        .withSectorSize(4096)
        .withDataProfile("single")
        .withSystemProfile("single")
        .withMetadataProfile("single")
        .withGlobalReserve1("single")
        .withGVolUsedSize(3894038528L)
        .withDefaultSubvolid("259")
        .withDefaultSubvolName("@/.snapshots/1/snapshot")
        .withDefaultSubvolMountpath("/")
        .withSubvolumn(listBtrfsListSubvolumn)
    );
    List<PhysicalVolume> listDisksPhysicalVolumes = new ArrayList<>();
    listDisksPhysicalVolumes.add(
        new PhysicalVolume()
            .withDeviceUse("VOLUME_GROUP")
            .withFileSystem("LVM2_member")
            .withMountPoint("")
            .withName("/dev/vdb1")
            .withSize(21473787904L)
            .withUsedSize(21473787904L)
            .withInodeSize(0)
            .withInodeNums(0L)
    );
    List<PhysicalVolume> listDisksPhysicalVolumes1 = new ArrayList<>();
    listDisksPhysicalVolumes1.add(
        new PhysicalVolume()
            .withDeviceUse("NORMAL")
            .withFileSystem("swap")
            .withMountPoint("")
            .withName("/dev/vda1")
            .withSize(2153775104L)
            .withUsedSize(2153775104L)
            .withInodeSize(0)
            .withInodeNums(0L)
    );
    listDisksPhysicalVolumes1.add(
        new PhysicalVolume()
            .withDeviceUse("BTRFS")
            .withFileSystem("btrfs")
            .withMountPoint("")
            .withName("/dev/vda2")
            .withSize(16862150656L)
            .withUsedSize(16862150656L)
            .withInodeSize(0)
            .withInodeNums(0L)
    );
    listDisksPhysicalVolumes1.add(
        new PhysicalVolume()
            .withDeviceUse("NORMAL")
            .withFileSystem("xfs")
            .withMountPoint("/home")
            .withName("/dev/vda3")
            .withSize(23932698624L)
            .withUsedSize(33988608L)
            .withInodeSize(0)
            .withInodeNums(12345L)
    );
    List<ServerDisk> listbodyDisks = new ArrayList<>();
    listbodyDisks.add(
        new ServerDisk()
            .withName("/dev/vda")
            .withPartitionStyle(ServerDisk.PartitionStyleEnum.fromValue("MBR"))
            .withDeviceUse(ServerDisk.DeviceUseEnum.fromValue("BOOT"))
            .withSize(42949672960L)
            .withUsedSize(42948624384L)
            .withPhysicalVolumes(listDisksPhysicalVolumes1)
    );

```

```
);
listbodyDisks.add(
    new ServerDisk()
        .withName("/dev/vdb")
        .withPartitionStyle(ServerDisk.PartitionStyleEnum.fromValue("MBR"))
        .withDeviceUse(ServerDisk.DeviceUseEnum.fromValue("NORMAL"))
        .withSize(21474836480L)
        .withUsedSize(21473787904L)
        .withPhysicalVolumes(listDisksPhysicalVolumes)
);
listbodyDisks.add(
    new ServerDisk()
        .withName("/dev/vdc")
        .withPartitionStyle(ServerDisk.PartitionStyleEnum.fromValue("MBR"))
        .withDeviceUse(ServerDisk.DeviceUseEnum.fromValue("VOLUME_GROUP"))
        .withSize(21474836480L)
        .withUsedSize(0L)
        .withPhysicalVolumes()
);
body.withIoReadWait((double)3.4);
body.withKernelVersion("4.4.21-69-default");
body.withAgentVersion("2.2.1");
body.withVolumeGroups(listbodyVolumeGroups);
body.withBootLoader(PostSourceServerBody.BootLoaderEnum.fromValue("GRUB"));
body.withParavirtualization(true);
body.withHasRsync(true);
body.withNetworks(listbodyNetworks);
body.withBtrfsList(listbodyBtrfsList);
body.withDisks(listbodyDisks);
body.withMemory(934752256L);
body.withCpuQuantity(1);
body.withFirmware(PostSourceServerBody.FirmwareEnum.fromValue("BIOS"));
body.withLinuxBlockCheck("{\"release_type\": \"SUSE\", \"release_version\": \"12.2\", \"kernel_simplification\": \"4.4.21\", \"architecture\": \"x86_64\", \"kernel_version\": \"4.4.21-69-default\"}");
body.withVirtualizationType("HVM");
body.withOsVersion("SUSE12_64BIT_SP2");
body.withOsType(PostSourceServerBody.OsTypeEnum.fromValue("LINUX"));
body.withName("host-192-168-136-xxx");
body.withIp("192.168.136.xxx");
request.withBody(body);
try {
    RegisterServerResponse response = client.registerServer(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

## Python

上报源端服务器信息，源端的OS类型是Linux，名称是host-192-168-136-xxx，ip是192.168.136.xxx，操作系统版本是SUSE12\_64BIT\_SP2，系统盘的名称是/dev/vda，系统盘的磁盘类型是BOOT，系统盘总大小为42949672960，上报成功后会在sms服务器列表中看到对应的源端服务器信息。

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
```

```

from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = RegisterServerRequest()
        listLogicalVolumesVolumeGroups = [
            LogicalVolumes(
                file_system="ext4",
                inode_size=256,
                inode_nums=12345,
                device_use="NORMAL",
                mount_point="/mnt/lv1",
                name="/dev/mapper/vg1-lv1",
                size=10737418240,
                used_size=23580672,
                free_size=10713837568
            )
        ]
        listVolumeGroupsbody = [
            VolumeGroups(
                components="/dev/vdb1;/dev/vdc",
                logical_volumes=listLogicalVolumesVolumeGroups,
                name="vg1",
                size=42948624384
            )
        ]
        listNetworksbody = [
            NetWork(
                name="eth0",
                ip="192.168.136.xxx",
                netmask="netmask",
                gateway="gateway",
                mac="1a9660eb8a3ffc4df6d7865b52eb54f7b0cd194029e0eadd8e2c7f1267d80c0"
            )
        ]
        listSubvolumnBtrfsList = [
            BtrfsSubvolumn(
                uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
                is_snapshot="false",
                subvol_id="257",
                parent_id="5",
                subvol_name="@",
                subvol_mount_path="null"
            ),
            BtrfsSubvolumn(
                uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
                is_snapshot="false",
                subvol_id="258",
                parent_id="257",
                subvol_name="@/.snapshots",
                subvol_mount_path="/.snapshots"
            )
        ],

```

```

BtrfsSubvolumn(
  uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  is_snapshot="true",
  subvol_id="259",
  parent_id="258",
  subvol_name="@/.snapshots/1/snapshot",
  subvol_mount_path="/"
),
BtrfsSubvolumn(
  uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  is_snapshot="false",
  subvol_id="260",
  parent_id="257",
  subvol_name="@/boot/grub2/i386-pc",
  subvol_mount_path="/boot/grub2/i386-pc"
),
BtrfsSubvolumn(
  uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  is_snapshot="false",
  subvol_id="261",
  parent_id="257",
  subvol_name="@/boot/grub2/x86_64-efi",
  subvol_mount_path="/boot/grub2/x86_64-efi"
),
BtrfsSubvolumn(
  uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  is_snapshot="false",
  subvol_id="262",
  parent_id="257",
  subvol_name="@/opt",
  subvol_mount_path="/opt"
),
BtrfsSubvolumn(
  uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  is_snapshot="false",
  subvol_id="263",
  parent_id="257",
  subvol_name="@/srv",
  subvol_mount_path="/srv"
),
BtrfsSubvolumn(
  uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  is_snapshot="false",
  subvol_id="264",
  parent_id="257",
  subvol_name="@/tmp",
  subvol_mount_path="/tmp"
),
BtrfsSubvolumn(
  uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  is_snapshot="false",
  subvol_id="265",
  parent_id="257",
  subvol_name="@/usr/local",
  subvol_mount_path="/usr/local"
),
BtrfsSubvolumn(
  uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  is_snapshot="false",
  subvol_id="266",
  parent_id="257",
  subvol_name="@/var/cache",
  subvol_mount_path="/var/cache"
),
BtrfsSubvolumn(
  uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  is_snapshot="false",
  subvol_id="267",
  parent_id="257",

```



```

        subvol_name="@/var/crash",
        subvol_mount_path="/var/crash"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="268",
        parent_id="257",
        subvol_name="@/var/lib/libvirt/images",
        subvol_mount_path="/var/lib/libvirt/images"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="269",
        parent_id="257",
        subvol_name="@/var/lib/machines",
        subvol_mount_path="/var/lib/machines"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="270",
        parent_id="257",
        subvol_name="@/var/lib/mailman",
        subvol_mount_path="/var/lib/mailman"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="271",
        parent_id="257",
        subvol_name="@/var/lib/mariadb",
        subvol_mount_path="/var/lib/mariadb"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="272",
        parent_id="257",
        subvol_name="@/var/lib/mysql",
        subvol_mount_path="/var/lib/mysql"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="273",
        parent_id="257",
        subvol_name="@/var/lib/named",
        subvol_mount_path="/var/lib/named"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="274",
        parent_id="257",
        subvol_name="@/var/lib/pgsql",
        subvol_mount_path="/var/lib/pgsql"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="275",
        parent_id="257",
        subvol_name="@/var/log",
        subvol_mount_path="/var/log"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",

```

```

        is_snapshot="false",
        subvol_id="276",
        parent_id="257",
        subvol_name="@/var/opt",
        subvol_mount_path="/var/opt"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="277",
        parent_id="257",
        subvol_name="@/var/spool",
        subvol_mount_path="/var/spool"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="278",
        parent_id="257",
        subvol_name="@/var/tmp",
        subvol_mount_path="/var/tmp"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="true",
        subvol_id="282",
        parent_id="258",
        subvol_name="@/.snapshots/2/snapshot",
        subvol_mount_path="null"
    )
]
listBtrfsListbody = [
    BtrfsFileSystem(
        name="/dev/vda2",
        label="none",
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        device="/dev/vda2",
        size=3.30GiB,
        nodesize=16384,
        sectorsize=4096,
        data_profile="single",
        system_profile="single",
        metadata_profile="single",
        global_reserve1="single",
        g_vol_used_size=3894038528,
        default_subvolid="259",
        default_subvol_name="@/.snapshots/1/snapshot",
        default_subvol_mountpath="/",
        subvolumn=listSubvolumnBtrfsList
    )
]
listPhysicalVolumesDisks = [
    PhysicalVolume(
        device_use="VOLUME_GROUP",
        file_system="LVM2_member",
        mount_point="",
        name="/dev/vdb1",
        size=21473787904,
        used_size=21473787904,
        inode_size=0,
        inode_nums=0
    )
]
listPhysicalVolumesDisks1 = [
    PhysicalVolume(
        device_use="NORMAL",
        file_system="swap",
        mount_point="",
        name="/dev/vda1",

```

```

        size=2153775104,
        used_size=2153775104,
        inode_size=0,
        inode_nums=0
    ),
    PhysicalVolume(
        device_use="BTRFS",
        file_system="btrfs",
        mount_point="",
        name="/dev/vda2",
        size=16862150656,
        used_size=16862150656,
        inode_size=0,
        inode_nums=0
    ),
    PhysicalVolume(
        device_use="NORMAL",
        file_system="xfs",
        mount_point="/home",
        name="/dev/vda3",
        size=23932698624,
        used_size=33988608,
        inode_size=0,
        inode_nums=12345
    )
]
listDisksbody = [
    ServerDisk(
        name="/dev/vda",
        partition_style="MBR",
        device_use="BOOT",
        size=42949672960,
        used_size=42948624384,
        physical_volumes=listPhysicalVolumesDisks1
    ),
    ServerDisk(
        name="/dev/vdb",
        partition_style="MBR",
        device_use="NORMAL",
        size=21474836480,
        used_size=21473787904,
        physical_volumes=listPhysicalVolumesDisks
    ),
    ServerDisk(
        name="/dev/vdc",
        partition_style="MBR",
        device_use="VOLUME_GROUP",
        size=21474836480,
        used_size=0,
    )
]
request.body = PostSourceServerBody(
    io_read_wait=3.4,
    kernel_version="4.4.21-69-default",
    agent_version="2.2.1",
    volume_groups=listVolumeGroupsbody,
    boot_loader="GRUB",
    paravirtualization=True,
    has_rsync=True,
    networks=listNetworksbody,
    btrfs_list=listBtrfsListbody,
    disks=listDisksbody,
    memory=934752256,
    cpu_quantity=1,
    firmware="BIOS",
    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"}},
    virtualization_type="HVM",
    os_version="SUSE12_64BIT_SP2",

```

```
        os_type="LINUX",
        name="host-192-168-136-xxx",
        ip="192.168.136.xxx"
    )
    response = client.register_server(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

上报源端服务器信息，源端的OS类型是Linux，名称是host-192-168-136-xxx，ip是192.168.136.xxx，操作系统版本是SUSE12\_64BIT\_SP2，系统盘的名称是/dev/vda，系统盘的磁盘类型是BOOT，系统盘总大小为42949672960，上报成功后会在sms服务器列表中看到对应的源端服务器信息。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.RegisterServerRequest{
        inodeNumsLogicalVolumes:= int64(12345)
        deviceUseLogicalVolumes:= "NORMAL"
        var listLogicalVolumesVolumeGroups = []model.LogicalVolumes{
            {
                FileSystem: "ext4",
                InodeSize: int32(256),
                InodeNums: &inodeNumsLogicalVolumes,
                DeviceUse: &deviceUseLogicalVolumes,
                MountPoint: "/mnt/lv1",
                Name: "/dev/mapper/vg1-lv1",
                Size: int64(10737418240),
                UsedSize: int64(23580672),
                FreeSize: int64(10713837568),
            },
        },
    }
    componentsVolumeGroups:= "/dev/vdb1;/dev/vdc"
    nameVolumeGroups:= "vg1"
    sizeVolumeGroups:= int64(42948624384)
```

```

var listVolumeGroupsbody = []model.VolumeGroups{
  {
    Components: &componentsVolumeGroups,
    LogicalVolumes: &listLogicalVolumesVolumeGroups,
    Name: &nameVolumeGroups,
    Size: &sizeVolumeGroups,
  },
}
var listNetworksbody = []model.NetWork{
  {
    Name: "eth0",
    Ip: "192.168.136.xxx",
    Netmask: "netmask",
    Gateway: "gateway",
    Mac: "1a9660eb8a3ffc4df6d7865b52eb54f7b0cd194029e0eadd8e2c7f1267d80c0",
  },
}
var listSubvolumnBtrfsList = []model.BtrfsSubvolumn{
  {
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    IsSnapshot: "false",
    Subvollid: "257",
    ParentId: "5",
    SubvolName: "@",
    SubvolMountPath: "null",
  },
  {
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    IsSnapshot: "false",
    Subvollid: "258",
    ParentId: "257",
    SubvolName: "@/.snapshots",
    SubvolMountPath: "/.snapshots",
  },
  {
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    IsSnapshot: "true",
    Subvollid: "259",
    ParentId: "258",
    SubvolName: "@/.snapshots/1/snapshot",
    SubvolMountPath: "/",
  },
  {
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    IsSnapshot: "false",
    Subvollid: "260",
    ParentId: "257",
    SubvolName: "@/boot/grub2/i386-pc",
    SubvolMountPath: "/boot/grub2/i386-pc",
  },
  {
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    IsSnapshot: "false",
    Subvollid: "261",
    ParentId: "257",
    SubvolName: "@/boot/grub2/x86_64-efi",
    SubvolMountPath: "/boot/grub2/x86_64-efi",
  },
  {
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    IsSnapshot: "false",
    Subvollid: "262",
    ParentId: "257",
    SubvolName: "@/opt",
    SubvolMountPath: "/opt",
  },
  {
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    IsSnapshot: "false",
  },
}

```

```

Subvollid: "263",
ParentId: "257",
SubvolName: "@/srv",
SubvolMountPath: "/srv",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "264",
  ParentId: "257",
  SubvolName: "@/tmp",
  SubvolMountPath: "/tmp",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "265",
  ParentId: "257",
  SubvolName: "@/usr/local",
  SubvolMountPath: "/usr/local",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "266",
  ParentId: "257",
  SubvolName: "@/var/cache",
  SubvolMountPath: "/var/cache",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "267",
  ParentId: "257",
  SubvolName: "@/var/crash",
  SubvolMountPath: "/var/crash",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "268",
  ParentId: "257",
  SubvolName: "@/var/lib/libvirt/images",
  SubvolMountPath: "/var/lib/libvirt/images",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "269",
  ParentId: "257",
  SubvolName: "@/var/lib/machines",
  SubvolMountPath: "/var/lib/machines",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "270",
  ParentId: "257",
  SubvolName: "@/var/lib/mailman",
  SubvolMountPath: "/var/lib/mailman",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "271",
  ParentId: "257",
  SubvolName: "@/var/lib/mariadb",
  SubvolMountPath: "/var/lib/mariadb",
},
},

```

```

{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "272",
  ParentId: "257",
  SubvolName: "@/var/lib/mysql",
  SubvolMountPath: "/var/lib/mysql",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "273",
  ParentId: "257",
  SubvolName: "@/var/lib/named",
  SubvolMountPath: "/var/lib/named",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "274",
  ParentId: "257",
  SubvolName: "@/var/lib/pgsql",
  SubvolMountPath: "/var/lib/pgsql",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "275",
  ParentId: "257",
  SubvolName: "@/var/log",
  SubvolMountPath: "/var/log",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "276",
  ParentId: "257",
  SubvolName: "@/var/opt",
  SubvolMountPath: "/var/opt",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "277",
  ParentId: "257",
  SubvolName: "@/var/spool",
  SubvolMountPath: "/var/spool",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "278",
  ParentId: "257",
  SubvolName: "@/var/tmp",
  SubvolMountPath: "/var/tmp",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "true",
  Subvollid: "282",
  ParentId: "258",
  SubvolName: "@/.snapshots/2/snapshot",
  SubvolMountPath: "null",
},
}
var listBtrfsListbody = []model.BtrfsFileSystem{
{
  Name: "/dev/vda2",
  Label: "none",

```

```

        Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        Device: "/dev/vda2",
        Size: int64(3.30GiB),
        Nodesize: int64(16384),
        Sectorsize: int32(4096),
        DataProfile: "single",
        SystemProfile: "single",
        MetadataProfile: "single",
        GlobalReserve1: "single",
        GVOLUsedSize: int64(3894038528),
        DefaultSubvolid: "259",
        DefaultSubvolName: "@/.snapshots/1/snapshot",
        DefaultSubvolMountpath: "/",
        Subvolumn: listSubvolumnBtrfsList,
    },
}
deviceUsePhysicalVolumes:= "VOLUME_GROUP"
fileSystemPhysicalVolumes:= "LVM2_member"
mountPointPhysicalVolumes:= ""
namePhysicalVolumes:= "/dev/vdb1"
sizePhysicalVolumes:= int64(21473787904)
usedSizePhysicalVolumes:= int64(21473787904)
inodeSizePhysicalVolumes:= int32(0)
inodeNumsPhysicalVolumes:= int64(0)
var listPhysicalVolumesDisks = []model.PhysicalVolume{
    {
        DeviceUse: &deviceUsePhysicalVolumes,
        FileSystem: &fileSystemPhysicalVolumes,
        MountPoint: &mountPointPhysicalVolumes,
        Name: &namePhysicalVolumes,
        Size: &sizePhysicalVolumes,
        UsedSize: &usedSizePhysicalVolumes,
        InodeSize: &inodeSizePhysicalVolumes,
        InodeNums: &inodeNumsPhysicalVolumes,
    },
}
deviceUsePhysicalVolumes1:= "NORMAL"
fileSystemPhysicalVolumes1:= "swap"
mountPointPhysicalVolumes1:= ""
namePhysicalVolumes1:= "/dev/vda1"
sizePhysicalVolumes1:= int64(2153775104)
usedSizePhysicalVolumes1:= int64(2153775104)
inodeSizePhysicalVolumes1:= int32(0)
inodeNumsPhysicalVolumes1:= int64(0)
deviceUsePhysicalVolumes2:= "BTRFS"
fileSystemPhysicalVolumes2:= "btrfs"
mountPointPhysicalVolumes2:= ""
namePhysicalVolumes2:= "/dev/vda2"
sizePhysicalVolumes2:= int64(16862150656)
usedSizePhysicalVolumes2:= int64(16862150656)
inodeSizePhysicalVolumes2:= int32(0)
inodeNumsPhysicalVolumes2:= int64(0)
deviceUsePhysicalVolumes3:= "NORMAL"
fileSystemPhysicalVolumes3:= "xfs"
mountPointPhysicalVolumes3:= "/home"
namePhysicalVolumes3:= "/dev/vda3"
sizePhysicalVolumes3:= int64(23932698624)
usedSizePhysicalVolumes3:= int64(33988608)
inodeSizePhysicalVolumes3:= int32(0)
inodeNumsPhysicalVolumes3:= int64(12345)
var listPhysicalVolumesDisks1 = []model.PhysicalVolume{
    {
        DeviceUse: &deviceUsePhysicalVolumes1,
        FileSystem: &fileSystemPhysicalVolumes1,
        MountPoint: &mountPointPhysicalVolumes1,
        Name: &namePhysicalVolumes1,
        Size: &sizePhysicalVolumes1,
        UsedSize: &usedSizePhysicalVolumes1,
        InodeSize: &inodeSizePhysicalVolumes1,
    },
}

```



```

        InodeNums: &inodeNumsPhysicalVolumes1,
    },
    {
        DeviceUse: &deviceUsePhysicalVolumes2,
        FileSystem: &fileSystemPhysicalVolumes2,
        MountPoint: &mountPointPhysicalVolumes2,
        Name: &namePhysicalVolumes2,
        Size: &sizePhysicalVolumes2,
        UsedSize: &usedSizePhysicalVolumes2,
        InodeSize: &inodeSizePhysicalVolumes2,
        InodeNums: &inodeNumsPhysicalVolumes2,
    },
    {
        DeviceUse: &deviceUsePhysicalVolumes3,
        FileSystem: &fileSystemPhysicalVolumes3,
        MountPoint: &mountPointPhysicalVolumes3,
        Name: &namePhysicalVolumes3,
        Size: &sizePhysicalVolumes3,
        UsedSize: &usedSizePhysicalVolumes3,
        InodeSize: &inodeSizePhysicalVolumes3,
        InodeNums: &inodeNumsPhysicalVolumes3,
    },
}
partitionStyleDisks:= model.GetServerDiskPartitionStyleEnum().MBR
partitionStyleDisks1:= model.GetServerDiskPartitionStyleEnum().MBR
partitionStyleDisks2:= model.GetServerDiskPartitionStyleEnum().MBR
var listDisksbody = []model.ServerDisk{
    {
        Name: "/dev/vda",
        PartitionStyle: &partitionStyleDisks,
        DeviceUse: model.GetServerDiskDeviceUseEnum().BOOT,
        Size: int64(42949672960),
        UsedSize: int64(42948624384),
        PhysicalVolumes: listPhysicalVolumesDisks1,
    },
    {
        Name: "/dev/vdb",
        PartitionStyle: &partitionStyleDisks1,
        DeviceUse: model.GetServerDiskDeviceUseEnum().NORMAL,
        Size: int64(21474836480),
        UsedSize: int64(21473787904),
        PhysicalVolumes: listPhysicalVolumesDisks,
    },
    {
        Name: "/dev/vdc",
        PartitionStyle: &partitionStyleDisks2,
        DeviceUse: model.GetServerDiskDeviceUseEnum().VOLUME_GROUP,
        Size: int64(21474836480),
        UsedSize: int64(0),
    },
}
}
ioReadWaitPostSourceServerBody:= float64(3.4)
kernelVersionPostSourceServerBody:= "4.4.21-69-default"
agentVersionPostSourceServerBody:= "2.2.1"
bootLoaderPostSourceServerBody:= model.GetPostSourceServerBodyBootLoaderEnum().GRUB
paravirtualizationPostSourceServerBody:= true
hasRsyncPostSourceServerBody:= true
memoryPostSourceServerBody:= int64(934752256)
cpuQuantityPostSourceServerBody:= int32(1)
firmwarePostSourceServerBody:= model.GetPostSourceServerBodyFirmwareEnum().BIOS
linuxBlockCheckPostSourceServerBody:= "{\"release_type\": \"SUSE\", \"release_version\": \"12.2\",
\"kernel_simplification\": \"4.4.21\", \"architecture\": \"x86_64\", \"kernel_version\": \"4.4.21-69-default\"}"
virtualizationTypePostSourceServerBody:= \"HVM\"
osVersionPostSourceServerBody:= \"SUSE12_64BIT_SP2\"
osTypePostSourceServerBody:= model.GetPostSourceServerBodyOsTypeEnum().LINUX
namePostSourceServerBody:= \"host-192-168-136-xxx\"
ipPostSourceServerBody:= \"192.168.136.xxx\"
request.Body = &model.PostSourceServerBody{
    IoReadWait: &ioReadWaitPostSourceServerBody,

```

```

KernelVersion: &kernelVersionPostSourceServerBody,
AgentVersion: &agentVersionPostSourceServerBody,
VolumeGroups: &listVolumeGroupsbody,
BootLoader: &bootLoaderPostSourceServerBody,
Paravirtualization: &paravirtualizationPostSourceServerBody,
HasRsync: &hasRsyncPostSourceServerBody,
Networks: &listNetworksbody,
BtrfsList: &listBtrfsListbody,
Disks: &listDisksbody,
Memory: &memoryPostSourceServerBody,
CpuQuantity: &cpuQuantityPostSourceServerBody,
Firmware: &firmwarePostSourceServerBody,
LinuxBlockCheck: &linuxBlockCheckPostSourceServerBody,
VirtualizationType: &virtualizationTypePostSourceServerBody,
OsVersion: &osVersionPostSourceServerBody,
OsType: &osTypePostSourceServerBody,
Name: &namePostSourceServerBody,
Ip: &ipPostSourceServerBody,
}
response, err := client.RegisterServer(request)
if err == nil {
    fmt.Printf("%v\n", response)
} else {
    fmt.Println(err)
}
}

```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	源端注册成功
403	鉴权失败

## 错误码

请参见[错误码](#)。

### 5.3.3 查询源端服务器列表

#### 功能介绍

用户在源端安装并成功启动Agent后，Agent会将源端服务器信息注册在主机迁移服务中，调用该接口查询已注册的源端服务器列表信息。

#### 调用方法

请参见[如何调用API](#)。

#### URI

GET /v3/sources

表 5-31 Query 参数

参数	是否必选	参数类型	描述
state	否	String	源端服务器状态 unavailable: 环境校验不通过 waiting: 等待 initialize: 初始化 replicate: 复制 syncing: 持续同步 stopping: 暂停中 stopped: 已暂停 deleting: 删除中 error: 错误 cloning: 等待克隆完成 cutovering: 启动目的端中 finished: 启动目的端完成 枚举值: <ul style="list-style-type: none"> <li>• <b>unavailable</b></li> <li>• <b>waiting</b></li> <li>• <b>initialize</b></li> <li>• <b>replicate</b></li> <li>• <b>syncing</b></li> <li>• <b>stopping</b></li> <li>• <b>stopped</b></li> <li>• <b>deleting</b></li> <li>• <b>error</b></li> <li>• <b>cloning</b></li> <li>• <b>cutovering</b></li> <li>• <b>finished</b></li> </ul>
name	否	String	源端服务器名称 最小长度: 0 最大长度: 255
id	否	String	源端服务器ID 最小长度: 0 最大长度: 255
ip	否	String	源端服务器IP地址 最小长度: 0 最大长度: 255

参数	是否必选	参数类型	描述
migproject	否	String	迁移项目ID, 填写该参数将查询迁移项目下的所有虚拟机 最小长度: 0 最大长度: 255
limit	否	Integer	每一页记录的源端服务器数量, 0表示用默认值 200 最小值: 0 最大值: 200 缺省值: 200
offset	否	Integer	偏移量, 默认值0 最小值: 0 最大值: 65535 缺省值: 0
migration_cycle	否	String	checking:检查中 setting:设置中 replicating:复制中 syncing:同步中 cutovering:启动目的端中 cutovered:启动目的端完成 最小长度: 0 最大长度: 255 枚举值: <ul style="list-style-type: none"> <li>• <b>checking</b></li> <li>• <b>setting</b></li> <li>• <b>replicating</b></li> <li>• <b>syncing</b></li> <li>• <b>cutovering</b></li> <li>• <b>cutovered</b></li> </ul>
connected	否	Boolean	查询失去连接的源端
enterprise_project_id	否	String	需要查询的企业项目ID 最小长度: 0 最大长度: 255
is_consistency_result_exist	否	Boolean	是否存在一致性校验结果

## 请求参数

表 5-32 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	用户Token。 通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

## 响应参数

状态码： 200

表 5-33 响应 Body 参数

参数	参数类型	描述
count	Integer	符合查询条件的源端总数量，不受limit和offset影响 最小值：0 最大值：2147483647
source_servers	Array of SourceServersResponseBody objects	批量查询的源端服务器详列表 数组长度：0 - 65535

表 5-34 SourceServersResponseBody

参数	参数类型	描述
id	String	源端服务器ID 最小长度：0 最大长度：255
ip	String	源端服务器的IP地址 最小长度：0 最大长度：255
name	String	源端服务器名称 最小长度：0 最大长度：255

参数	参数类型	描述
enterprise_project_id	String	企业项目ID 最小长度: <b>0</b> 最大长度: <b>255</b>
add_date	Long	源端服务器的注册时间 最小值: <b>0</b> 最大值: <b>9223372036854775807</b>
os_type	String	操作系统类型, OS_TYPE (WINDOWS/ LINUX) 最小长度: <b>0</b> 最大长度: <b>255</b> 枚举值: <ul style="list-style-type: none"> <li>• <b>WINDOWS</b></li> <li>• <b>LINUX</b></li> </ul>
os_version	String	系统详细版本号, 如CENTOS7.6等 最小长度: <b>0</b> 最大长度: <b>255</b>
oem_system	Boolean	是否是OEM操作系统(Windows)

参数	参数类型	描述
state	String	源端服务器状态 unavailable: 环境校验不通过 waiting: 等待 initialize: 初始化 replicate: 复制 syncing: 持续同步 stopping: 暂停中 stopped: 已暂停 deleting: 删除中 error: 错误 cloning: 等待克隆完成 cutovering: 启动目的端中 finished: 启动目的端完成 最小长度: 0 最大长度: 255 枚举值: <ul style="list-style-type: none"> <li>• unavailable</li> <li>• waiting</li> <li>• initialize</li> <li>• replicate</li> <li>• syncing</li> <li>• stopping</li> <li>• stopped</li> <li>• deleting</li> <li>• error</li> <li>• cloning</li> <li>• cutovering</li> <li>• finished</li> </ul>
connected	Boolean	源端服务器与主机迁移服务端是否连接
cpu_quantity	Integer	源端CPU核心数 最小值: 0 最大值: 2147483647
memory	Long	源端物理内存大小 (单位: 字节) 最小值: 0 最大值: 9223372036854775807
current_task	<a href="#">TaskByServerSources</a> object	源端列表中关联的任务

参数	参数类型	描述
checks	Array of <b>EnvironmentCheck</b> objects	源端校验检查项列表 数组长度: <b>0 - 65535</b>
init_target_server	<b>InitTargetServer</b> object	推荐的目的端服务器配置
replicatesize	Long	已复制的大小 (单位: 字节) 最小值: <b>0</b> 最大值: <b>9223372036854775807</b>
stage_action_time	Long	迁移周期 (migration_cycle) 上一次变化的时间 最小值: <b>0</b> 最大值: <b>9223372036854775807</b>
totalsize	Long	需要迁移的数据量总大小 (单位: 字节) 最小值: <b>0</b> 最大值: <b>9223372036854775807</b>
last_visit_time	Long	Agent上一次连接状态发生变化的时间 最小值: <b>0</b> 最大值: <b>9223372036854775807</b>
migration_cycle	String	迁移周期 cutovering:启动目的端中 cutovered:启动目的端完成 checking:检查中 setting:设置中 replicating:复制中 syncing:同步中 最小长度: <b>0</b> 最大长度: <b>255</b> 枚举值: <ul style="list-style-type: none"> <li>• <b>cutovering</b></li> <li>• <b>cutovered</b></li> <li>• <b>checking</b></li> <li>• <b>setting</b></li> <li>• <b>replicating</b></li> <li>• <b>syncing</b></li> </ul>



参数	参数类型	描述
state_action_time	Long	源端状态（state）上次发生变化的时间 最小值： <b>0</b> 最大值： <b>9223372036854775807</b>
is_consistency_result_exist	Boolean	是否有一致性校验结果 缺省值： <b>false</b>
has_tc	Boolean	是否安装tc组件，Linux系统此参数为必选

表 5-35 TaskByServerSources

参数	参数类型	描述
id	String	任务ID 最小长度： <b>1</b> 最大长度： <b>255</b>
name	String	任务名称 最小长度： <b>0</b> 最大长度： <b>255</b>
type	String	任务类型 最小长度： <b>0</b> 最大长度： <b>255</b>
state	String	任务状态 最小长度： <b>0</b> 最大长度： <b>255</b>
estimate_complete_time	Long	预估结束时间 最小值： <b>0</b> 最大值： <b>9223372036854775807</b>
start_date	Long	开始时间 最小值： <b>0</b> 最大值： <b>9223372036854775807</b>
speed_limit	Integer	限速 最小值： <b>0</b> 最大值： <b>10000</b>
migrate_speed	Double	迁移速率 最小值： <b>0</b> 最大值： <b>10000</b>

参数	参数类型	描述
compress_rate	Double	压缩率 最小值： <b>0</b> 最大值： <b>10000</b>
start_target_server	Boolean	是否启动虚拟机
vm_template_id	String	虚拟机模板ID 最小长度： <b>0</b> 最大长度： <b>255</b>
region_id	String	region_id 最小长度： <b>0</b> 最大长度： <b>255</b>
project_name	String	项目名称 最小长度： <b>0</b> 最大长度： <b>255</b>
project_id	String	项目ID 最小长度： <b>0</b> 最大长度： <b>255</b>
target_server	<a href="#">TargetServerById</a> object	目的端
log_collect_status	String	日志收集状态 最小长度： <b>0</b> 最大长度： <b>255</b>
exist_server	Boolean	是否使用已有虚拟机
use_public_ip	Boolean	是否使用公网IP
clone_server	<a href="#">CloneServer</a> object	克隆服务器类
remain_seconds	Long	已迁移时长 最小值： <b>0</b> 最大值： <b>9223372036854775807</b>
log_bucket	String	上传日志指定桶名称 最小长度： <b>0</b> 最大长度： <b>255</b>
log_expire	Long	分享链接有效期 最小值： <b>300</b> 最大值： <b>64800</b>

参数	参数类型	描述
log_upload_time	Long	日志上传时间 最小值: <b>0</b> 最大值: <b>9223372036854775807</b>
log_share_url	String	分享链接url 最小长度: <b>0</b> 最大长度: <b>65535</b>

表 5-36 TargetServerById

参数	参数类型	描述
vm_id	String	目的端服务器ID 最小长度: <b>0</b> 最大长度: <b>255</b>
name	String	目的端服务器名称 最小长度: <b>0</b> 最大长度: <b>255</b>

表 5-37 CloneServer

参数	参数类型	描述
vm_id	String	克隆服务器ID 最小长度: <b>0</b> 最大长度: <b>255</b>
name	String	克隆虚拟机的名称 最小长度: <b>0</b> 最大长度: <b>255</b>
clone_error	String	克隆错误信息 最小长度: <b>0</b> 最大长度: <b>255</b>
clone_state	String	克隆状态 最小长度: <b>0</b> 最大长度: <b>255</b>
error_msg	String	克隆错误信息描述 最小长度: <b>0</b> 最大长度: <b>1024</b>

表 5-38 EnvironmentCheck

参数	参数类型	描述
id	Long	该检查项的ID 最小值: 0 最大值: 9223372036854775807
params	Array of strings	参数 最小长度: 0 最大长度: 255 数组长度: 0 - 65535
name	String	检查项名称 最小长度: 0 最大长度: 255
result	String	检查结果 OK: 检查通过 WARN: 警告 ERROR: 检查不通过 最小长度: 0 最大长度: 255 枚举值: <ul style="list-style-type: none"> <li>• OK</li> <li>• WARN</li> <li>• ERROR</li> </ul>
error_code	String	检查不通过的错误码 最小长度: 0 最大长度: 255
error_or_warn	String	检查的错误或者警告 最小长度: 0 最大长度: 255
error_params	String	检查不通过的错误参数 最小长度: 0 最大长度: 255

表 5-39 InitTargetServer

参数	参数类型	描述
disks	Array of <b>DiskIntargetServer</b> objects	推荐的目的端服务器的磁盘信息 数组长度: 0 - 65535
volume_groups	Array of <b>VolumeGroups</b> objects	Linux必选, 如果没有卷组, 输入[] 数组长度: 0 - 65535

表 5-40 DiskIntargetServer

参数	参数类型	描述
name	String	磁盘名称 最小长度: 0 最大长度: 255
size	Long	磁盘大小, 单位: 字节 最小值: 0 最大值: 9223372036854775807
device_use	String	磁盘的作用 BOOT: BOOT设备 OS: 系统设备 NORMAL:平常 最小长度: 0 最大长度: 255 枚举值: <ul style="list-style-type: none"> <li>• <b>BOOT</b></li> <li>• <b>OS</b></li> <li>• <b>NORMAL</b></li> </ul>
used_size	Long	磁盘已使用大小, 以字节为单位 最小值: 0 最大值: 9223372036854775807
physical_volumes	Array of <b>PhysicalVolumes</b> objects	物理卷信息 数组长度: 0 - 65535

表 5-41 PhysicalVolumes

参数	参数类型	描述
device_use	String	分区类型，普通分区，启动分区，系统分区 最小长度：0 最大长度：255
file_system	String	文件系统类型 最小长度：0 最大长度：255
index	Integer	顺序 最小值：0 最大值：2147483647
mount_point	String	挂载点 最小长度：0 最大长度：255
name	String	名称，windows表示盘符，Linux表示设备号 最小长度：0 最大长度：255
size	Long	大小 最小值：0 最大值：9223372036854775807
inode_size	Long	inode数量 最小值：0 最大值：9223372036854775807
used_size	Long	使用大小 最小值：0 最大值：9223372036854775807
uuid	String	GUID，可从源端查询 最小长度：0 最大长度：255

表 5-42 VolumeGroups

参数	参数类型	描述
components	String	Pv信息 最小长度: 0 最大长度: 255
free_size	Long	剩余空间 最小值: 0 最大值: 9223372036854775807
logical_volumes	Array of <a href="#">LogicalVolumes</a> objects	lv信息 数组长度: 0 - 255
name	String	名称 最小长度: 0 最大长度: 255
size	Long	大小 最小值: 0 最大值: 9223372036854775807

表 5-43 LogicalVolumes

参数	参数类型	描述
block_count	Integer	块数量 最小值: 0 最大值: 2147483647 缺省值: 0
block_size	Long	块大小 最小值: 0 最大值: 1048576 缺省值: 0
file_system	String	文件系统 最小长度: 0 最大长度: 255
inode_size	Integer	inode数量 最小值: 0 最大值: 2147483647

参数	参数类型	描述
inode_nums	Long	inode节点数量 最小值: 0 最大值: 9223372036854775807
device_use	String	分区类型, 普通分区, 启动分区, 系统分区 最小长度: 0 最大长度: 255
mount_point	String	挂载点 最小长度: 0 最大长度: 256
name	String	名称 最小长度: 0 最大长度: 1024
size	Long	大小 最小值: 0 最大值: 9223372036854775807
used_size	Long	使用大小 最小值: 0 最大值: 9223372036854775807
free_size	Long	剩余空间 最小值: 0 最大值: 9223372036854775807

状态码: 403

表 5-44 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度: 0 最大长度: 255
error_msg	String	错误信息 最小长度: 0 最大长度: 255



参数	参数类型	描述
encoded_authorization_message	String	加密授权信息 最小长度: 0 最大长度: 65535
error_param	Array of strings	错误参数 最小长度: 0 最大长度: 65535 数组长度: 1 - 20
details	Array of <b>details</b> objects	详细错误信息 数组长度: 1 - 20

表 5-45 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度: 0 最大长度: 65535
error_msg	String	SMS错误信息 最小长度: 0 最大长度: 65535

状态码: 500

表 5-46 响应 Body 参数

参数	参数类型	描述
error_code	String	错误码 最小长度: 0 最大长度: 255
error_msg	String	错误信息 最小长度: 0 最大长度: 1024

## 请求示例

查询源端列表信息，每页10个源端，查看第0页。

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

## 响应示例

**状态码： 200**

查询源端服务器列表成功。

```
{
  "count": 10,
  "source_servers": [ {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "ip": "192.168.0.1",
    "name": "sms-test",
    "enterprise_project_id": 0,
    "add_date": 1598417717000,
    "os_type": "WINDOWS",
    "os_version": "WINDOWS2008_R2_64BIT",
    "oem_system": false,
    "state": "finished",
    "connected": true,
    "cpu_quantity": 1,
    "memory": 2146557952,
    "current_task": {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "MigrationTask",
      "type": "MIGRATE_BLOCK",
      "state": "MIGRATE_SUCCESS",
      "estimate_complete_time": null,
      "start_date": 1598417771000,
      "speed_limit": 0,
      "migrate_speed": 0.0,
      "start_target_server": true,
      "vm_template_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "region_id": "region_id",
      "project_name": "project_name",
      "project_id": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
      "target_server": {
        "vm_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        "name": "sms-test"
      }
    },
    "log_collect_status": "INIT",
    "exist_server": false,
    "use_public_ip": true,
    "clone_server": null,
    "remain_seconds": null
  },
  "checks": [ {
    "id": 524062,
    "params": [ "" ],
    "name": "OS_VERSION",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  }, {
    "id": 524063,
    "params": [ "" ],
    "name": "FIRMWARE",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  }, {
    "id": 524064,
    "params": [ "" ],
    "name": "CPU",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  }, {
    "id": 524065,
    "params": [ "" ],
```

```

"name": "MEMORY",
"result": "OK",
"error_code": null,
"error_params": ""
}, {
  "id": 524066,
  "params": [ "" ],
  "name": "SYSTEM_ROOT",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 524067,
  "params": [ "" ],
  "name": "PARTITION_STYLE",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 524068,
  "params": [ "" ],
  "name": "FILE_SYSTEM",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 524069,
  "params": [ "" ],
  "name": "FREE_SPACE",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 524070,
  "params": [ "" ],
  "name": "OEM_SYSTEM",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 524071,
  "params": [ "" ],
  "name": "DRIVER_FILE",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 524072,
  "params": [ "" ],
  "name": "SERVICE",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 524073,
  "params": [ "" ],
  "name": "ACCOUNT_RIGHTS",
  "result": "OK",
  "error_code": null,
  "error_params": ""
} ],
"init_target_server": {
  "disks": [ {
    "name": "Disk 0",
    "size": 42949672960,
    "device_use": "OS"
  } ]
},
"replicatesize": 0,

```

```

"stage_action_time" : 1598419352959,
"totalsize" : 0,
"last_visit_time" : 1598434312002,
"migration_cycle" : "cutovered",
"state_action_time" : 1598419352959
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip" : "192.168.0.154",
  "name" : "sms-win16",
  "add_date" : 1598417612000,
  "os_type" : "WINDOWS",
  "os_version" : "WINDOWS2016_64BIT",
  "oem_system" : false,
  "state" : "finished",
  "connected" : true,
  "cpu_quantity" : 1,
  "memory" : 2146553856,
  "current_task" : {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "MigrationTask",
    "type" : "MIGRATE_BLOCK",
    "state" : "MIGRATE_SUCCESS",
    "estimate_complete_time" : null,
    "start_date" : 1598417627000,
    "speed_limit" : 0,
    "migrate_speed" : 0.0,
    "start_target_server" : true,
    "vm_template_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "region_id" : "region_id",
    "project_name" : "project_name",
    "project_id" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "target_server" : {
      "vm_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name" : "e2e-sms-win16"
    }
  },
  "log_collect_status" : "INIT",
  "exist_server" : false,
  "use_public_ip" : true,
  "clone_server" : null,
  "remain_seconds" : null
},
"checks" : [ {
  "id" : 524050,
  "params" : [ "" ],
  "name" : "OS_VERSION",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524051,
  "params" : [ "" ],
  "name" : "FIRMWARE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524052,
  "params" : [ "" ],
  "name" : "CPU",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524053,
  "params" : [ "" ],
  "name" : "MEMORY",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}

```

```
}, {
  "id" : 524054,
  "params" : [ "" ],
  "name" : "SYSTEM_ROOT",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524055,
  "params" : [ "" ],
  "name" : "PARTITION_STYLE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524056,
  "params" : [ "" ],
  "name" : "FILE_SYSTEM",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524057,
  "params" : [ "" ],
  "name" : "FREE_SPACE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524058,
  "params" : [ "" ],
  "name" : "OEM_SYSTEM",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524059,
  "params" : [ "" ],
  "name" : "DRIVER_FILE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524060,
  "params" : [ "" ],
  "name" : "SERVICE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524061,
  "params" : [ "" ],
  "name" : "ACCOUNT_RIGHTS",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}],
"init_target_server" : {
  "disks" : [ {
    "name" : "Disk 0",
    "size" : 42949672960,
    "device_use" : "OS"
  } ]
},
"replicatesize" : 0,
"stage_action_time" : 1598419339661,
"totalsize" : 0,
"last_visit_time" : 1598434316810,
"migration_cycle" : "cutovered",
```

```
"state_action_time" : 1598419339661
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip" : "192.168.77.77",
  "name" : "sms-centos",
  "add_date" : 1598417551000,
  "os_type" : "LINUX",
  "os_version" : "CENTOS_7_4_64BIT",
  "oem_system" : false,
  "state" : "error",
  "connected" : true,
  "cpu_quantity" : 1,
  "memory" : 1038716928,
  "current_task" : {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "MigrationTask",
    "type" : "MIGRATE_BLOCK",
    "state" : "MIGRATE_FAIL",
    "estimate_complete_time" : null,
    "start_date" : 1598417588000,
    "speed_limit" : 0,
    "migrate_speed" : 0.0,
    "start_target_server" : true,
    "vm_template_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "region_id" : "region_id",
    "project_name" : "project_name",
    "project_id" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "target_server" : {
      "vm_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name" : "e2e-sms-centos"
    }
  },
  "log_collect_status" : "INIT",
  "exist_server" : false,
  "use_public_ip" : true,
  "clone_server" : null,
  "remain_seconds" : null
},
"checks" : [ {
  "id" : 524038,
  "params" : [ "" ],
  "name" : "OS_VERSION",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524039,
  "params" : [ "" ],
  "name" : "CPU",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524040,
  "params" : [ "" ],
  "name" : "MEMORY",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524041,
  "params" : [ "" ],
  "name" : "PARAVIRTUALIZATION",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524042,
  "params" : [ "" ],
  "name" : "FIRMWARE",
```

```
"result": "OK",
"error_code": null,
"error_params": ""
}, {
  "id": 524043,
  "params": [ "" ],
  "name": "BOOT_LOADER",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 524044,
  "params": [ "" ],
  "name": "RSYNC",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 524045,
  "params": [ "" ],
  "name": "RAW_DEVICES",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 524046,
  "params": [ "" ],
  "name": "DISK_INFO",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 524047,
  "params": [ "" ],
  "name": "PARTITION_STYLE",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 524048,
  "params": [ "" ],
  "name": "FILE_SYSTEM",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 524049,
  "params": [ "" ],
  "name": "LINUX_BLOCK_SUPPORT",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}
}],
"init_target_server": {
  "disks": [ {
    "name": "/dev/vda",
    "size": 42949672960,
    "device_use": "BOOT"
  } ]
},
"replicatesize": 42949672960,
"stage_action_time": 1598428182454,
"totalsize": 42949672960,
"last_visit_time": 1598434308889,
"migration_cycle": "syncing",
"state_action_time": 1598428182454
}, {
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip": "192.168.0.235",
```

```

"name": "sms-ubuntu",
"add_date": 1598417522000,
"os_type": "LINUX",
"os_version": "UBUNTU_18_4_64BIT",
"oem_system": false,
"state": "unavailable",
"connected": false,
"cpu_quantity": 1,
"memory": 1032556544,
"current_task": null,
"checks": [ ],
"init_target_server": {
  "disks": [ {
    "name": "/dev/vda",
    "size": 42949672960,
    "device_use": "BOOT"
  }, {
    "name": "/dev/vdb",
    "size": 21474836480,
    "device_use": "NORMAL"
  } ]
},
"replicatesize": 0,
"stage_action_time": 1598417521797,
"totalsize": 0,
"last_visit_time": 1598417521795,
"migration_cycle": "checking",
"state_action_time": null
}, {
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip": "192.168.178.214",
  "name": "sms-sms2",
  "add_date": 1598403465000,
  "os_type": "WINDOWS",
  "os_version": "WINDOWS2012_R2_64BIT",
  "oem_system": false,
  "state": "waiting",
  "connected": false,
  "cpu_quantity": 1,
  "memory": 2146553856,
  "current_task": null,
  "checks": [ {
    "id": 523970,
    "params": [ "" ],
    "name": "OS_VERSION",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  }, {
    "id": 523971,
    "params": [ "" ],
    "name": "FIRMWARE",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  }, {
    "id": 523972,
    "params": [ "" ],
    "name": "CPU",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  }, {
    "id": 523973,
    "params": [ "" ],
    "name": "MEMORY",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  } ]
}

```



```
}, {
  "id" : 523974,
  "params" : [ "" ],
  "name" : "SYSTEM_ROOT",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523975,
  "params" : [ "" ],
  "name" : "PARTITION_STYLE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523976,
  "params" : [ "" ],
  "name" : "FILE_SYSTEM",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523977,
  "params" : [ "" ],
  "name" : "FREE_SPACE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523978,
  "params" : [ "" ],
  "name" : "OEM_SYSTEM",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523979,
  "params" : [ "" ],
  "name" : "DRIVER_FILE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523980,
  "params" : [ "" ],
  "name" : "SERVICE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523981,
  "params" : [ "" ],
  "name" : "ACCOUNT_RIGHTS",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}],
"init_target_server" : {
  "disks" : [ {
    "name" : "Disk 0",
    "size" : 42949672960,
    "device_use" : "OS"
  } ]
},
"replicatesize" : 0,
"stage_action_time" : 1598403465315,
"totalsize" : 0,
"last_visit_time" : 1598403588140,
"migration_cycle" : "checking",
```

```

"state_action_time" : 1598403465414
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip" : "192.168.0.1",
  "name" : "linux sources",
  "add_date" : 1598369476000,
  "os_type" : "LINUX",
  "os_version" : "REDHAT_7_3_64BIT",
  "oem_system" : false,
  "state" : "unavailable",
  "connected" : false,
  "cpu_quantity" : 4,
  "memory" : 8581140480,
  "current_task" : null,
  "checks" : [ ],
  "init_target_server" : {
    "disks" : [ {
      "name" : "sda",
      "size" : 85899345920,
      "device_use" : "BOOT|OS"
    }, {
      "name" : "sdb",
      "size" : 214748364800,
      "device_use" : "NORMAL"
    }
  ]
},
"replicatesize" : 0,
"stage_action_time" : 1598369475726,
"totalsize" : 0,
"last_visit_time" : 1598369475725,
"migration_cycle" : "checking",
"state_action_time" : null
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip" : "192.168.0.1",
  "name" : "linux sources",
  "add_date" : 1598351694000,
  "os_type" : "LINUX",
  "os_version" : "REDHAT_7_3_64BIT",
  "oem_system" : false,
  "state" : "unavailable",
  "connected" : false,
  "cpu_quantity" : 4,
  "memory" : 8581140480,
  "current_task" : null,
  "checks" : [ ],
  "init_target_server" : {
    "disks" : [ {
      "name" : "sda",
      "size" : 85899345920,
      "device_use" : "BOOT|OS"
    }, {
      "name" : "sdb",
      "size" : 214748364800,
      "device_use" : "NORMAL"
    }
  ]
},
"replicatesize" : 0,
"stage_action_time" : 1598351693858,
"totalsize" : 0,
"last_visit_time" : 1598351693857,
"migration_cycle" : "checking",
"state_action_time" : null
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip" : "192.168.0.1",
  "name" : "linux sources",
  "add_date" : 1598348080000,
  "os_type" : "LINUX",

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"os_version": "REDHAT_7_3_64BIT",
"oem_system": false,
"state": "unavailable",
"connected": false,
"cpu_quantity": 4,
"memory": 8581140480,
"current_task": null,
"checks": [ ],
"init_target_server": {
  "disks": [ {
    "name": "sda",
    "size": 85899345920,
    "device_use": "BOOT|OS"
  }, {
    "name": "sdb",
    "size": 214748364800,
    "device_use": "NORMAL"
  } ]
},
"replicatesize": 0,
"stage_action_time": 1598348079782,
"totalsize": 0,
"last_visit_time": 1598348079781,
"migration_cycle": "checking",
"state_action_time": null
}, {
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip": "192.168.0.239",
  "name": "sms-centos7",
  "add_date": 1598326505000,
  "os_type": "LINUX",
  "os_version": "CENTOS_8_5_64BIT",
  "oem_system": false,
  "state": "unavailable",
  "connected": false,
  "cpu_quantity": 1,
  "memory": 1926860800,
  "current_task": null,
  "checks": [ {
    "id": 523794,
    "params": [ "" ],
    "name": "OS_VERSION",
    "result": "ERROR",
    "error_code": "SMS.6504",
    "error_params": ""
  }, {
    "id": 523795,
    "params": [ "" ],
    "name": "CPU",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  }, {
    "id": 523796,
    "params": [ "" ],
    "name": "MEMORY",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  }, {
    "id": 523797,
    "params": [ "" ],
    "name": "PARAVIRTUALIZATION",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  }, {
    "id": 523798,
    "params": [ "" ],

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"name": "FIRMWARE",
"result": "OK",
"error_code": null,
"error_params": ""
}, {
  "id": 523799,
  "params": [ "" ],
  "name": "BOOT_LOADER",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523800,
  "params": [ "" ],
  "name": "RSYNC",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523801,
  "params": [ "" ],
  "name": "RAW_DEVICES",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523802,
  "params": [ "" ],
  "name": "DISK_INFO",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523803,
  "params": [ "" ],
  "name": "PARTITION_STYLE",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523804,
  "params": [ "" ],
  "name": "FILE_SYSTEM",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523805,
  "params": [ "" ],
  "name": "LINUX_BLOCK_SUPPORT",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}
],
"init_target_server": {
  "disks": [ {
    "name": "/dev/vda",
    "size": 42949672960,
    "device_use": "BOOT"
  }, {
    "name": "/dev/vdb",
    "size": 42949672960,
    "device_use": "NORMAL"
  }
]
},
"replicatesize": 0,
"stage_action_time": 1598326505378,
"totalsize": 0,
"last_visit_time": 1598423828868,

```

```

"migration_cycle": "checking",
"state_action_time": 1598326505459
}, {
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip": "192.168.0.65",
  "name": "smc-test",
  "add_date": 1598238727000,
  "os_type": "LINUX",
  "os_version": "CENTOS_6_5_64BIT",
  "oem_system": false,
  "state": "finished",
  "connected": true,
  "cpu_quantity": 1,
  "memory": 1043931136,
  "current_task": {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "MigrationTask",
    "type": "MIGRATE_FILE",
    "state": "MIGRATE_SUCCESS",
    "estimate_complete_time": null,
    "start_date": 1598239243000,
    "speed_limit": 0,
    "migrate_speed": 0.0,
    "start_target_server": true,
    "vm_template_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "region_id": "region_id",
    "project_name": "project_name",
    "project_id": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "target_server": {
      "vm_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "smc-test"
    },
    "log_collect_status": "INIT",
    "exist_server": false,
    "use_public_ip": true,
    "clone_server": null,
    "remain_seconds": null
  },
  "checks": [ {
    "id": 523686,
    "params": [ "" ],
    "name": "OS_VERSION",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  }, {
    "id": 523687,
    "params": [ "" ],
    "name": "CPU",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  }, {
    "id": 523688,
    "params": [ "" ],
    "name": "MEMORY",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  }, {
    "id": 523689,
    "params": [ "" ],
    "name": "PARAVIRTUALIZATION",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  }, {
    "id": 523690,
    "params": [ "" ],

```

```

"name": "FIRMWARE",
"result": "OK",
"error_code": null,
"error_params": ""
}, {
  "id": 523691,
  "params": [ "" ],
  "name": "BOOT_LOADER",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523692,
  "params": [ "" ],
  "name": "RSYNC",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523693,
  "params": [ "" ],
  "name": "RAW_DEVICES",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523694,
  "params": [ "" ],
  "name": "DISK_INFO",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523695,
  "params": [ "" ],
  "name": "PARTITION_STYLE",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523696,
  "params": [ "" ],
  "name": "FILE_SYSTEM",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523697,
  "params": [ "" ],
  "name": "LINUX_BLOCK_SUPPORT",
  "result": "WARN",
  "error_code": "SMS.6617",
  "error_params": ""
}
],
"init_target_server": {
  "disks": [ {
    "name": "/dev/vda",
    "size": 42949672960,
    "device_use": "BOOT"
  }, {
    "name": "/dev/vdb",
    "size": 10737418240,
    "device_use": "NORMAL"
  }
]
},
"replicatesize": 0,
"stage_action_time": 1598240178677,
"totalsize": 0,
"last_visit_time": 1598434314748,

```

```
"migration_cycle" : "cutovered",
"state_action_time" : 1598240178677
}]
}
```

### 状态码： 403

#### 鉴权失败

```
{
"error_code" : "SMS.9004",
"error_msg" : "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
"encoded_authorization_message" : "XXXXXX",
"error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
"details" : [ {
"error_code" : "SMS.9004",
"error_msg" : "You do not have permission to perform action XXX on resource XXX."
} ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ListServersSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        ListServersRequest request = new ListServersRequest();
        try {
            ListServersResponse response = client.listServers(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
        }
    }
}
```

```

        System.out.println(e.getStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
}

```

## Python

```

# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListServersRequest()
        response = client.list_servers(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)

```

## Go

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

```



```

client := sms.NewSmsClient(
    sms.SmsClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ListServersRequest{}
response, err := client.ListServers(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
    
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	查询源端服务器列表成功。
403	鉴权失败
500	Internal Server Error

## 错误码

请参见[错误码](#)。

## 5.3.4 批量删除源端服务器信息

### 功能介绍

批量删除源端服务器信息。一旦源端服务器信息被删除，则只能通过重启源端服务器上的迁移Agent来将源端服务器信息重新添加在主机迁移服务界面。

### 调用方法

请参见[如何调用API](#)。

### URI

POST /v3/sources/delete

## 请求参数

表 5-47 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

表 5-48 请求 Body 参数

参数	是否必选	参数类型	描述
ids	是	Array of strings	所有删除对象ID的集合 最小长度：0 最大长度：255 数组长度：0 - 65535

## 响应参数

状态码：200

表 5-49 响应 Body 参数

参数	参数类型	描述
-	String	批量删除源端服务器的返回

状态码：403

表 5-50 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度：0 最大长度：255
error_msg	String	错误信息 最小长度：0 最大长度：255

参数	参数类型	描述
encoded_authorization_message	String	加密授权信息 最小长度: 0 最大长度: 65535
error_param	Array of strings	错误参数 最小长度: 0 最大长度: 65535 数组长度: 1 - 20
details	Array of <b>details</b> objects	详细错误信息 数组长度: 1 - 20

表 5-51 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度: 0 最大长度: 65535
error_msg	String	SMS错误信息 最小长度: 0 最大长度: 65535

## 请求示例

批量删除源端服务器信息，待删除源端服务器ID集合为[ "ec2a894f-0d92-47c5-ac22-168ef61dxxxx", "5f13089f-799f-4f33-b3e1-c499397dxxxx" ]

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

```
{
  "ids": [ "ec2a894f-0d92-47c5-ac22-168ef61dxxxx", "5f13089f-799f-4f33-b3e1-c499397dxxxx" ]
}
```

## 响应示例

状态码: 403

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

```
    }  
  }  
}
```

## 状态码

状态码	描述
200	批量删除源端服务器信息成功
403	鉴权失败

## 错误码

请参见[错误码](#)。

## 5.3.5 修改指定 ID 的源端服务器信息

### 功能介绍

该功能用来修改SMS服务端的源端信息，方便用户对源端进行管理。

### 调用方法

请参见[如何调用API](#)。

## URI

PUT /v3/sources/{source\_id}

表 5-52 路径参数

参数	是否必选	参数类型	描述
source_id	是	String	源端服务器在主机迁移服务中的ID 最小长度：0 最大长度：255

## 请求参数

表 5-53 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

表 5-54 请求 Body 参数

参数	是否必选	参数类型	描述
name	否	String	源端服务器修改后的名字 最小长度：0 最大长度：255
migprojectid	否	String	源端服务器修改后所属的迁移项目ID 最小长度：0 最大长度：255
disks	否	Array of PutDisk objects	磁盘 数组长度：0 - 65535
volume_group_s	否	Array of PutVolumeGroups objects	卷组 数组长度：0 - 65535

表 5-55 PutDisk

参数	是否必选	参数类型	描述
need_migration	否	Boolean	磁盘名称 缺省值：true
id	是	String	磁盘ID 最小长度：0 最大长度：255

参数	是否必选	参数类型	描述
adjust_size	是	Long	调整大小 最小值：0 最大值： <b>9223372036854775807</b> 缺省值：0
physical_volumes	否	Array of <b>PutVolume</b> objects	修改的卷信息 数组长度：0 - 65535

表 5-56 PutVolume

参数	是否必选	参数类型	描述
id	否	String	数据库ID 最小长度：0 最大长度：255
need_migration	否	Boolean	是否迁移 缺省值： <b>true</b>
adjust_size	否	Long	调整大小 最小值：0 最大值： <b>9223372036854775807</b> 缺省值：0

表 5-57 PutVolumeGroups

参数	是否必选	参数类型	描述
logical_volumes	否	Array of <b>PutLogicalVolume</b> objects	lv信息 数组长度：0 - 65535
id	是	String	卷组ID 最小长度：0 最大长度：255
need_migration	否	Boolean	是否迁移 缺省值： <b>true</b>

参数	是否必选	参数类型	描述
adjust_size	否	Long	调整大小 最小值：0 最大值： <b>9223372036854775807</b> 缺省值：0

表 5-58 PutLogicalVolume

参数	是否必选	参数类型	描述
id	是	String	逻辑卷ID 最小长度：0 最大长度：255
need_migration	否	Boolean	是否迁移 缺省值： <b>true</b>
adjust_size	否	Long	调整大小 最小值：0 最大值： <b>9223372036854775807</b> 缺省值：0

## 响应参数

状态码：200

表 5-59 响应 Body 参数

参数	参数类型	描述
-	String	修改指定ID的源端服务器信息成功

状态码：403

表 5-60 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度：0 最大长度：255

参数	参数类型	描述
error_msg	String	错误信息 最小长度: 0 最大长度: 255
encoded_authorized_message	String	加密授权信息 最小长度: 0 最大长度: 65535
error_param	Array of strings	错误参数 最小长度: 0 最大长度: 65535 数组长度: 1 - 20
details	Array of <b>details</b> objects	详细错误信息 数组长度: 1 - 20

表 5-61 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度: 0 最大长度: 65535
error_msg	String	SMS错误信息 最小长度: 0 最大长度: 65535

## 请求示例

修改ID为dcdbe339-b02d-4578-95a1-9c9c547dxxxx的源端服务器的名称为abcd

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

## 响应示例

**状态码: 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX."
}
```



```
"encoded_authorization_message" : "XXXXXX",
"error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
"details" : [ {
  "error_code" : "SMS.9004",
  "error_msg" : "You do not have permission to perform action XXX on resource XXX."
} ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

修改ID为dcdbe339-b02d-4578-95a1-9c9c547dxxxx的源端服务器的名称为abcd

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class UpdateServerNameSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateServerNameRequest request = new UpdateServerNameRequest();
        request.withSourceId("{source_id}");
        PutSourceServerBody body = new PutSourceServerBody();
        body.withName("abcd");
        request.withBody(body);
        try {
            UpdateServerNameResponse response = client.updateServerName(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

修改ID为dcdbe339-b02d-4578-95a1-9c9c547dxxxx的源端服务器的名称为abcd

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateServerNameRequest()
        request.source_id = "{source_id}"
        request.body = PutSourceServerBody(
            name="abcd"
        )
        response = client.update_server_name(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

修改ID为dcdbe339-b02d-4578-95a1-9c9c547dxxxx的源端服务器的名称为abcd

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
```

```
Build()

client := sms.NewSmsClient(
    sms.SmsClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.UpdateServerNameRequest{}
request.SourceId = "{source_id}"
namePutSourceServerBody:= "abcd"
request.Body = &model.PutSourceServerBody{
    Name: &namePutSourceServerBody,
}
response, err := client.UpdateServerName(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	修改指定ID的源端服务器信息成功
403	鉴权失败

## 错误码

请参见[错误码](#)。

## 5.3.6 更新任务对应源端复制状态

### 功能介绍

更新任务对应源端复制状态。

### 调用方法

请参见[如何调用API](#)。

### URI

PUT /v3/sources/{source\_id}/changestate

表 5-62 路径参数

参数	是否必选	参数类型	描述
source_id	是	String	源端服务器在主机迁移服务中的ID 最小长度：0 最大长度：255

## 请求参数

表 5-63 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

表 5-64 请求 Body 参数

参数	是否必选	参数类型	描述
copystate	否	String	<p>源端服务器状</p> <p>UNAVAILABLE: 环境校验不通过</p> <p>WAITING: 等待</p> <p>INIT: 初始化</p> <p>REPLICATE: 复制</p> <p>SYNCING: 持续同步</p> <p>STOPPING: 暂停中</p> <p>STOPPED: 已暂停</p> <p>DELETING: 删除中</p> <p>ERROR: 错误</p> <p>CLONING: 等待克隆完成</p> <p>CUTOVERING: 启动目的端中</p> <p>FINISHED: 启动目的端完成</p> <p>枚举值:</p> <ul style="list-style-type: none"> <li>● UNAVAILABLE</li> <li>● WAITING</li> <li>● INIT</li> <li>● REPLICATE</li> <li>● SYNCING</li> <li>● STOPPING</li> <li>● STOPPED</li> <li>● DELETING</li> <li>● ERROR</li> <li>● CLONING</li> <li>● CUTOVERING</li> <li>● FINISHED</li> </ul>

参数	是否必选	参数类型	描述
migrationcycle	否	String	迁移周期 cutovering:启动目的端中 cutovered:启动目的端完成 checking:检查中 setting:设置中 replicating:复制中 syncing:同步中 枚举值: <ul style="list-style-type: none"> <li>• cutovering</li> <li>• cutovered</li> <li>• checking</li> <li>• setting</li> <li>• replicating</li> <li>• syncing</li> </ul>

## 响应参数

状态码： 200

表 5-65 响应 Body 参数

参数	参数类型	描述
-	String	更新任务对应源端复制状态成功

状态码： 403

表 5-66 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度： 0 最大长度： 255
error_msg	String	错误信息 最小长度： 0 最大长度： 255

参数	参数类型	描述
encoded_authorization_message	String	加密授权信息 最小长度: 0 最大长度: 65535
error_param	Array of strings	错误参数 最小长度: 0 最大长度: 65535 数组长度: 1 - 20
details	Array of <b>details</b> objects	详细错误信息 数组长度: 1 - 20

表 5-67 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度: 0 最大长度: 65535
error_msg	String	SMS错误信息 最小长度: 0 最大长度: 65535

## 请求示例

更新源端dcdbe339-b02d-4578-95a1-9c9c547dxxxx任务的复制状态, 更改源端服务器状态为WAITING,迁移周期为cutovered。

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

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

## 响应示例

**状态码: 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
```

```
"error_msg": "You do not have permission to perform action XXX on resource XXX."  
}]  
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

更新源端dcdbe339-b02d-4578-95a1-9c9c547dxxxx任务的复制状态，更改源端服务器状态为WAITING,迁移周期为cutovered。

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.GlobalCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;  
import com.huaweicloud.sdk.sms.v3.*;  
import com.huaweicloud.sdk.sms.v3.model.*;  
  
public class UpdateCopyStateSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
  
        ICredential auth = new GlobalCredentials()  
            .withAk(ak)  
            .withSk(sk);  
  
        SmsClient client = SmsClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))  
            .build();  
        UpdateCopyStateRequest request = new UpdateCopyStateRequest();  
        request.withSourceId("{source_id}");  
        PutCopyStateReq body = new PutCopyStateReq();  
        body.withMigrationcycle(PutCopyStateReq.MigrationcycleEnum.fromValue("cutovered"));  
        body.withCopystate(PutCopyStateReq.CopystateEnum.fromValue("WAITING"));  
        request.withBody(body);  
        try {  
            UpdateCopyStateResponse response = client.updateCopyState(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getHttpStatusCode());  
            System.out.println(e.getRequestId());  
            System.out.println(e.getErrorCode());  
            System.out.println(e.getErrorMsg());  
        }  
    }  
}
```



## Python

更新源端dcdbe339-b02d-4578-95a1-9c9c547dxxxx任务的复制状态，更改源端服务器状态为WAITING,迁移周期为cutovered。

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateCopyStateRequest()
        request.source_id = "{source_id}"
        request.body = PutCopyStateReq(
            migrationcycle="cutovered",
            copystate="WAITING"
        )
        response = client.update_copy_state(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

更新源端dcdbe339-b02d-4578-95a1-9c9c547dxxxx任务的复制状态，更改源端服务器状态为WAITING,迁移周期为cutovered。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")
```

```

auth := global.NewCredentialsBuilder().
    WithAk(ak).
    WithSk(sk).
    Build()

client := sms.NewSmsClient(
    sms.SmsClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.UpdateCopyStateRequest{}
request.SourceId = "{source_id}"
migrationcyclePutCopyStateReq:= model.GetPutCopyStateReqMigrationcycleEnum().CUTOVERED
copystatePutCopyStateReq:= model.GetPutCopyStateReqCopystateEnum().WAITING
request.Body = &model.PutCopyStateReq{
    Migrationcycle: &migrationcyclePutCopyStateReq,
    Copystate: &copystatePutCopyStateReq,
}
response, err := client.UpdateCopyState(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
    
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	更新任务对应源端复制状态成功
403	鉴权失败

## 错误码

请参见[错误码](#)。

## 5.3.7 删除指定 ID 的源端服务器信息

### 功能介绍

从主机迁移服务界面上删除指定ID的源端服务器信息。一旦源端服务器信息被删除，则只能通过重启源端服务器上的迁移Agent来将源端服务器信息重新添加在主机迁移服务界面。

### 调用方法

请参见[如何调用API](#)。

## URI

DELETE /v3/sources/{source\_id}

表 5-68 路径参数

参数	是否必选	参数类型	描述
source_id	是	String	源端服务器在主机迁移服务中的ID 最小长度：0 最大长度：255

## 请求参数

表 5-69 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

## 响应参数

状态码：200

表 5-70 响应 Body 参数

参数	参数类型	描述
-	String	删除指定ID的源端服务器信息成功

状态码：403

表 5-71 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度：0 最大长度：255

参数	参数类型	描述
error_msg	String	错误信息 最小长度: 0 最大长度: 255
encoded_authorization_message	String	加密授权信息 最小长度: 0 最大长度: 65535
error_param	Array of strings	错误参数 最小长度: 0 最大长度: 65535 数组长度: 1 - 20
details	Array of <b>details</b> objects	详细错误信息 数组长度: 1 - 20

表 5-72 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度: 0 最大长度: 65535
error_msg	String	SMS错误信息 最小长度: 0 最大长度: 65535

## 请求示例

删除ID为1a6d1e0b-62e5-4376-b59f-ff2fd569xxxx的源端

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

## 响应示例

**状态码: 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
```

```
"error_msg": "You do not have permission to perform action XXX on resource XXX."  
}]  
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.GlobalCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;  
import com.huaweicloud.sdk.sms.v3.*;  
import com.huaweicloud.sdk.sms.v3.model.*;  
  
public class DeleteServerSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
  
        ICredential auth = new GlobalCredentials()  
            .withAk(ak)  
            .withSk(sk);  
  
        SmsClient client = SmsClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))  
            .build();  
        DeleteServerRequest request = new DeleteServerRequest();  
        request.withSourceId("{source_id}");  
        try {  
            DeleteServerResponse response = client.deleteServer(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getHttpStatusCode());  
            System.out.println(e.getRequestId());  
            System.out.println(e.getErrorCode());  
            System.out.println(e.getErrorMsg());  
        }  
    }  
}
```

### Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import GlobalCredentials  
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
```

```

from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeleteServerRequest()
        request.source_id = "{source_id}"
        response = client.delete_server(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)

```

## Go

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteServerRequest{}
    request.SourceId = "{source_id}"
    response, err := client.DeleteServer(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}

```

```
}  
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	删除指定ID的源端服务器信息成功
403	鉴权失败

## 错误码

请参见[错误码](#)。

## 5.3.8 查询指定 ID 的源端服务器

### 功能介绍

迁移Agent将源端服务器信息上报到主机迁移服务后，主机迁移服务会对迁移的可行性进行检测，该接口返回源端服务器的基本信息和检查结果。

### 调用方法

请参见[如何调用API](#)。

### URI

GET /v3/sources/{source\_id}

表 5-73 路径参数

参数	是否必选	参数类型	描述
source_id	是	String	源端服务器在主机迁移服务中的ID 最小长度：0 最大长度：255

## 请求参数

表 5-74 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

## 响应参数

状态码： 200

表 5-75 响应 Body 参数

参数	参数类型	描述
id	String	源端服务器ID 最小长度：0 最大长度：255
ip	String	源端服务器的IP 最小长度：0 最大长度：255
name	String	用来区分不同源端服务器的名称 最小长度：0 最大长度：255
hostname	String	源端主机名，注册源端必选，更新非必选 最小长度：0 最大长度：255
enterprise_project_id	String	企业项目ID 最小长度：1 最大长度：255
add_date	Long	源端服务器注册的时间 最小值：0 最大值：9223372036854775807



参数	参数类型	描述
os_type	String	源端服务器的OS类型，分为Windows和Linux，注册必选，更新非必选 最小长度：0 最大长度：255
os_version	String	操作系统版本，注册必选，更新非必选 最小长度：0 最大长度：255
oem_system	Boolean	是否是OEM操作系统(Windows)
state	String	当前源端服务器状态 unavailable：环境校验不通过 waiting：等待 initialize：初始化 replicate：复制 syncing：持续同步 stopping：暂停中 stopped：已暂停 deleting：删除中 error：错误 cloning：等待克隆完成 testing：测试中 finished：启动目的端完成 枚举值： <ul style="list-style-type: none"> <li>• unavailable</li> <li>• waiting</li> <li>• initialize</li> <li>• replicate</li> <li>• syncing</li> <li>• stopping</li> <li>• stopped</li> <li>• deleting</li> <li>• error</li> <li>• cloning</li> <li>• testing</li> <li>• finished</li> </ul>
connected	Boolean	与Agent连接状态

参数	参数类型	描述
firmware	String	源端服务器启动类型，如BIOS或者UEFI 枚举值： <ul style="list-style-type: none"> <li>• BIOS</li> <li>• UEFI</li> </ul>
init_target_server	<a href="#">InitTargetServer</a> object	推荐的目的端服务器配置
cpu_quantity	Integer	源端CPU核心数 最小值：0 最大值：65535
memory	Long	源端服务器物理内存大小，单位MB 最小值：0 最大值：9223372036854775807
current_task	<a href="#">TaskByServerSource</a> object	源端列表中关联的任务
disks	Array of <a href="#">ServerDisk</a> objects	源端服务器磁盘信息 数组长度：0 - 65535
volume_groups	Array of <a href="#">VolumeGroups</a> objects	源端服务器的卷组信息，Linux必选，如果没有卷组，输入[] 数组长度：0 - 65535
btrfs_list	Array of <a href="#">BtrfsFileSystem</a> objects	Linux 必选，源端的Btrfs信息。如果源端不存在Btrfs，则为[] 数组长度：0 - 65535
networks	Array of <a href="#">NetWork</a> objects	源端服务器的网卡信息 数组长度：0 - 65535
checks	Array of <a href="#">EnvironmentCheck</a> objects	源端环境校验信息 数组长度：0 - 65535

参数	参数类型	描述
migration_cycle	String	迁移周期 cutovering:启动目的端中 cutovered:启动目的端完成 checking:检查中 setting:设置中 replicating:复制中 syncing:同步中 最小长度: 0 最大长度: 255 枚举值: <ul style="list-style-type: none"> <li>• cutovering</li> <li>• cutovered</li> <li>• checking</li> <li>• setting</li> <li>• replicating</li> <li>• syncing</li> </ul>
state_action_time	Long	源端状态 ( state ) 上次发生变化的时间戳 最小值: 0 最大值: 9223372036854775807
replicatesize	Long	已经完成迁移的大小 ( B ) 最小值: 0 最大值: 9223372036854775807
totalsize	Long	需要迁移的数据量总大小 ( B ) 最小值: 0 最大值: 9223372036854775807
last_visit_time	Long	agent上一次连接状态发生变化的时间戳 最小值: 0 最大值: 9223372036854775807
stage_action_time	Long	迁移周期 ( migration_cycle ) 上一次变化的时间戳 最小值: 0 最大值: 9223372036854775807
agent_version	String	Agent版本信息 最小长度: 0 最大长度: 255

参数	参数类型	描述
has_tc	Boolean	是否安装tc组件，Linux系统此参数为必选

表 5-76 InitTargetServer

参数	参数类型	描述
disks	Array of <b>DiskIntargetServer</b> objects	推荐的目的端服务器的磁盘信息 数组长度：0 - 65535
volume_groups	Array of <b>VolumeGroups</b> objects	Linux必选，如果没有卷组，输入[] 数组长度：0 - 65535

表 5-77 DiskIntargetServer

参数	参数类型	描述
name	String	磁盘名称 最小长度：0 最大长度：255
size	Long	磁盘大小，单位：字节 最小值：0 最大值：9223372036854775807
device_use	String	磁盘的作用 BOOT: BOOT设备 OS: 系统设备 NORMAL:平常 最小长度：0 最大长度：255 枚举值： <ul style="list-style-type: none"> <li>• BOOT</li> <li>• OS</li> <li>• NORMAL</li> </ul>
used_size	Long	磁盘已使用大小，以字节为单位 最小值：0 最大值：9223372036854775807

参数	参数类型	描述
physical_volumes	Array of <b>PhysicalVolumes</b> objects	物理卷信息 数组长度: 0 - 65535

表 5-78 PhysicalVolumes

参数	参数类型	描述
device_use	String	分区类型, 普通分区, 启动分区, 系统分区 最小长度: 0 最大长度: 255
file_system	String	文件系统类型 最小长度: 0 最大长度: 255
index	Integer	顺序 最小值: 0 最大值: 2147483647
mount_point	String	挂载点 最小长度: 0 最大长度: 255
name	String	名称, windows表示盘符, Linux表示设备号 最小长度: 0 最大长度: 255
size	Long	大小 最小值: 0 最大值: 9223372036854775807
inode_size	Long	inode数量 最小值: 0 最大值: 9223372036854775807
used_size	Long	使用大小 最小值: 0 最大值: 9223372036854775807
uuid	String	GUID, 可从源端查询 最小长度: 0 最大长度: 255

表 5-79 TaskByServerSource

参数	参数类型	描述
id	String	任务ID 最小长度: 0 最大长度: 255
name	String	任务名称 最小长度: 0 最大长度: 255
type	String	任务类型 最小长度: 0 最大长度: 255
state	String	任务状态 最小长度: 0 最大长度: 255
start_date	Long	开始时间 最小值: 0 最大值: 9223372036854775807
speed_limit	Integer	限速 最小值: 0 最大值: 10000
migrate_speed	Double	迁移速率 最小值: 0 最大值: 10000
start_target_server	Boolean	是否启动虚拟机
vm_template_id	String	虚拟机模板ID 最小长度: 0 最大长度: 255
region_id	String	region_id 最小长度: 0 最大长度: 255
project_name	String	项目名称 最小长度: 0 最大长度: 255

参数	参数类型	描述
project_id	String	项目ID 最小长度：0 最大长度：255
target_server	<a href="#">TargetServerById</a> object	目的端
log_collect_status	String	日志收集状态 最小长度：0 最大长度：255
exist_server	Boolean	是否使用已有虚拟机
use_public_ip	Boolean	是否使用公网IP
clone_server	<a href="#">CloneServer</a> object	克隆服务器类

表 5-80 TargetServerById

参数	参数类型	描述
vm_id	String	目的端服务器ID 最小长度：0 最大长度：255
name	String	目的端服务器名称 最小长度：0 最大长度：255

表 5-81 CloneServer

参数	参数类型	描述
vm_id	String	克隆服务器ID 最小长度：0 最大长度：255
name	String	克隆虚拟机的名称 最小长度：0 最大长度：255
clone_error	String	克隆错误信息 最小长度：0 最大长度：255

参数	参数类型	描述
clone_state	String	克隆状态 最小长度: 0 最大长度: 255
error_msg	String	克隆错误信息描述 最小长度: 0 最大长度: 1024

表 5-82 ServerDisk

参数	参数类型	描述
name	String	磁盘名称 最小长度: 0 最大长度: 255
partition_style	String	磁盘的分区类型, 添加源端时源端磁盘必选 MBR: mbr格式 GPT: gpt格式 枚举值: <ul style="list-style-type: none"> <li>• MBR</li> <li>• GPT</li> </ul>
device_use	String	磁盘类型 BOOT: BOOT设备 OS: 系统设备 枚举值: <ul style="list-style-type: none"> <li>• BOOT</li> <li>• OS</li> </ul>
size	Long	磁盘总大小, 以字节为单位 最小值: 0 最大值: 9223372036854775807
used_size	Long	磁盘已使用大小, 以字节为单位 最小值: 0 最大值: 9223372036854775807
physical_volumes	Array of <a href="#">PhysicalVolume</a> objects	磁盘上的物理分区信息 数组长度: 0 - 65535
os_disk	Boolean	是否为系统盘



参数	参数类型	描述
relation_name	String	Linux系统 目的端ECS中与源端关联的磁盘名称 最小长度: 0 最大长度: 255
inode_size	Integer	inode数量 最小值: 0 最大值: 2147483647

表 5-83 PhysicalVolume

参数	参数类型	描述
device_use	String	分区类型, 普通分区, 启动分区, 系统分区 最小长度: 0 最大长度: 255
file_system	String	文件系统类型 最小长度: 0 最大长度: 255
index	Integer	顺序 最小值: 0 最大值: 2147483647
mount_point	String	挂载点 最小长度: 0 最大长度: 255
name	String	名称, windows表示盘符, Linux表示设备号 最小长度: 0 最大长度: 255
size	Long	大小 最小值: 0 最大值: 9223372036854775807
used_size	Long	使用大小 最小值: 0 最大值: 9223372036854775807

参数	参数类型	描述
inode_size	Integer	inode数量 最小值: 0 最大值: 2147483647
inode_nums	Long	inode节点数量 最小值: 0 最大值: 9223372036854775807
uuid	String	GUID, 可从源端查询 最小长度: 0 最大长度: 255
size_per_cluster	Integer	每个cluster大小 最小值: 0 最大值: 2147483647

表 5-84 VolumeGroups

参数	参数类型	描述
components	String	Pv信息 最小长度: 0 最大长度: 255
free_size	Long	剩余空间 最小值: 0 最大值: 9223372036854775807
logical_volumes	Array of <a href="#">LogicalVolumes</a> objects	lv信息 数组长度: 0 - 255
name	String	名称 最小长度: 0 最大长度: 255
size	Long	大小 最小值: 0 最大值: 9223372036854775807

表 5-85 LogicalVolumes

参数	参数类型	描述
block_count	Integer	块数量 最小值: 0 最大值: 2147483647 缺省值: 0
block_size	Long	块大小 最小值: 0 最大值: 1048576 缺省值: 0
file_system	String	文件系统 最小长度: 0 最大长度: 255
inode_size	Integer	inode数量 最小值: 0 最大值: 2147483647
inode_nums	Long	inode节点数量 最小值: 0 最大值: 9223372036854775807
device_use	String	分区类型, 普通分区, 启动分区, 系统分区 最小长度: 0 最大长度: 255
mount_point	String	挂载点 最小长度: 0 最大长度: 256
name	String	名称 最小长度: 0 最大长度: 1024
size	Long	大小 最小值: 0 最大值: 9223372036854775807
used_size	Long	使用大小 最小值: 0 最大值: 9223372036854775807

参数	参数类型	描述
free_size	Long	剩余空间 最小值： <b>0</b> 最大值： <b>9223372036854775807</b>

表 5-86 BtrfsFileSystem

参数	参数类型	描述
name	String	文件系统名称 最小长度： <b>0</b> 最大长度： <b>255</b>
label	String	文件系统标签，若无标签为空字符串 最小长度： <b>0</b> 最大长度： <b>255</b>
uuid	String	文件系统的uuid 最小长度： <b>0</b> 最大长度： <b>255</b>
device	String	btrfs包含的设备名称 最小长度： <b>0</b> 最大长度： <b>255</b>
size	Long	文件系统数据占用大小 最小值： <b>0</b> 最大值： <b>9223372036854775807</b>
nodesize	Long	btrfs节点大小 最小值： <b>0</b> 最大值： <b>9223372036854775807</b>
sectorsize	Integer	扇区大小 最小值： <b>0</b> 最大值： <b>2147483647</b>
data_profile	String	数据配置（RAD） 最小长度： <b>0</b> 最大长度： <b>255</b>
system_profile	String	文件系统配置（RAD） 最小长度： <b>0</b> 最大长度： <b>255</b>

参数	参数类型	描述
metadata_profile	String	元数据配置 (RAD) 最小长度: 0 最大长度: 255
global_reserve1	String	Btrfs文件系统信息 最小长度: 0 最大长度: 255
g_vol_used_size	Long	Btrfs卷已使用空间大小 最小值: 0 最大值: 9223372036854775807
default_subvolid	String	默认子卷ID 最小长度: 0 最大长度: 255
default_subvol_name	String	默认子卷名称 最小长度: 0 最大长度: 255
default_subvol_mountpath	String	默认子卷挂载路径/BTRFS文件系统的挂载路径 最小长度: 0 最大长度: 255
subvolumn	Array of <b>BtrfsSubvolumn</b> objects	子卷信息 数组长度: 0 - 65535

表 5-87 BtrfsSubvolumn

参数	参数类型	描述
uuid	String	父卷的uuid 最小长度: 0 最大长度: 255
is_snapshot	String	子卷是否为快照 最小长度: 0 最大长度: 255
subvol_id	String	子卷的ID 最小长度: 0 最大长度: 255

参数	参数类型	描述
parent_id	String	父卷ID 最小长度: 0 最大长度: 255
subvol_name	String	子卷的名称 最小长度: 0 最大长度: 255
subvol_mount_path	String	子卷的挂载路径 最小长度: 0 最大长度: 255

表 5-88 NetWork

参数	参数类型	描述
name	String	网卡的名称 最小长度: 0 最大长度: 255
ip	String	该网卡绑定的IP 最小长度: 0 最大长度: 255
ipv6	String	IPv6地址 最小长度: 0 最大长度: 255
netmask	String	掩码 最小长度: 0 最大长度: 255
gateway	String	网关 最小长度: 0 最大长度: 255
mtu	Integer	Linux必选, 网卡的MTU 最小值: 0 最大值: 2147483647
mac	String	Mac地址 最小长度: 0 最大长度: 255

参数	参数类型	描述
id	String	数据库ID 最小长度: 0 最大长度: 255

表 5-89 EnvironmentCheck

参数	参数类型	描述
id	Long	该检查项的ID 最小值: 0 最大值: 9223372036854775807
params	Array of strings	参数 最小长度: 0 最大长度: 255 数组长度: 0 - 65535
name	String	检查项名称 最小长度: 0 最大长度: 255
result	String	检查结果 OK: 检查通过 WARN: 警告 ERROR:检查不通过 最小长度: 0 最大长度: 255 枚举值: <ul style="list-style-type: none"> <li>• OK</li> <li>• WARN</li> <li>• ERROR</li> </ul>
error_code	String	检查不通过的错误码 最小长度: 0 最大长度: 255
error_or_warn	String	检查的错误或者警告 最小长度: 0 最大长度: 255
error_params	String	检查不通过的错误参数 最小长度: 0 最大长度: 255

状态码： 403

表 5-90 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度： 0 最大长度： 255
error_msg	String	错误信息 最小长度： 0 最大长度： 255
encoded_authorization_message	String	加密授权信息 最小长度： 0 最大长度： 65535
error_param	Array of strings	错误参数 最小长度： 0 最大长度： 65535 数组长度： 1 - 20
details	Array of <a href="#">details</a> objects	详细错误信息 数组长度： 1 - 20

表 5-91 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度： 0 最大长度： 65535
error_msg	String	SMS错误信息 最小长度： 0 最大长度： 65535

## 请求示例

查询ID为211d7878-d7ba-4cac-acf1-a02ccfb8xxxx的源端信息

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

## 响应示例

状态码： 200



### 查询指定ID的源端服务器成功

```
{
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip": "192.168.0.154",
  "name": "sms-win16",
  "hostname": "sms-win16",
  "add_date": 1598435769000,
  "os_type": "WINDOWS",
  "os_version": "WINDOWS2016_64BIT",
  "oem_system": false,
  "state": "initialize",
  "connected": true,
  "firmware": "BIOS",
  "cpu_quantity": 1,
  "memory": 2146553856,
  "current_task": {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "MigrationTask",
    "type": "MIGRATE_BLOCK",
    "state": "RUNNING",
    "speed_limit": 0,
    "start_target_server": true,
    "vm_template_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "region_id": "region_id",
    "project_name": "project_name",
    "project_id": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "target_server": {
      "vm_id": "",
      "name": ""
    },
  },
  "log_collect_status": "INIT",
  "exist_server": false,
  "use_public_ip": true,
  "clone_server": null
},
"disk": [ {
  "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
}

```

**状态码： 403**

## 鉴权失败

```
{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have
permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ShowServerSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowServerRequest request = new ShowServerRequest();
        request.withSourceId("{source_id}");
        try {
            ShowServerResponse response = client.showServer(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

```
}
}
```

## Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowServerRequest()
        request.source_id = "{source_id}"
        response = client.show_server(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
```

```
WithCredential(auth).  
Build())  
  
request := &model.ShowServerRequest{}  
request.SourceId = "{source_id}"  
response, err := client.ShowServer(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	查询指定ID的源端服务器成功
403	鉴权失败

## 错误码

请参见[错误码](#)。

## 5.3.9 获取服务器总览

### 功能介绍

获取服务器总览

### 调用方法

请参见[如何调用API](#)。

### URI

GET /v3/sources/overview

## 请求参数

表 5-92 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

## 响应参数

状态码： 200

表 5-93 响应 Body 参数

参数	参数类型	描述
waiting	Integer	等待中 最小值：0 最大值：1000
replicate	Integer	复制中 最小值：0 最大值：1000
syncing	Integer	同步中 最小值：0 最大值：1000
stopped	Integer	已暂停 最小值：0 最大值：1000
deleting	Integer	删除中 最小值：0 最大值：1000
cutovering	Integer	启动目的端中 最小值：0 最大值：1000
unavailable	Integer	环境校验不通过 最小值：0 最大值：1000

参数	参数类型	描述
stopping	Integer	暂停中 最小值: 0 最大值: 1000
finished	Integer	启动目的端完成 最小值: 0 最大值: 1000
initialize	Integer	初始化 最小值: 0 最大值: 1000
error	Integer	错误 最小值: 0 最大值: 1000
cloning	Integer	等待克隆完成 最小值: 0 最大值: 1000
unconfigured	Integer	未配置目的端 最小值: 0 最大值: 1000

状态码: 403

表 5-94 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度: 0 最大长度: 255
error_msg	String	错误信息 最小长度: 0 最大长度: 255
encoded_authorization_message	String	加密授权信息 最小长度: 0 最大长度: 65535



参数	参数类型	描述
error_param	Array of strings	错误参数 最小长度: 0 最大长度: 65535 数组长度: 1 - 20
details	Array of <a href="#">details</a> objects	详细错误信息 数组长度: 1 - 20

表 5-95 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度: 0 最大长度: 65535
error_msg	String	SMS错误信息 最小长度: 0 最大长度: 65535

## 请求示例

查询客户当前迁移服务器总览

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

## 响应示例

**状态码: 200**

获取服务器总览成功

```
{
  "replicate": 0,
  "stopped": 0,
  "unconfigured": 13,
  "waiting": 0,
  "syncing": 0,
  "unavailable": 0,
  "cutovering": 0,
  "finished": 6,
  "error": 3,
  "deleting": 1,
  "stopping": 1,
  "initialize": 0,
  "cloning": 0
}
```

**状态码: 403**

鉴权失败

```
{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have
permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ShowOverviewSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowOverviewRequest request = new ShowOverviewRequest();
        try {
            ShowOverviewResponse response = client.showOverview(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowOverviewRequest()
        response = client.show_overview(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowOverviewRequest{}
```

```
response, err := client.ShowOverview(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	获取服务器总览成功
403	鉴权失败

## 错误码

请参见[错误码](#)。

## 5.3.10 更新磁盘信息

### 功能介绍

更新服务器的磁盘信息，此接口会把服务器原有磁盘信息清空，然后更新成新磁盘信息。

### 调用方法

请参见[如何调用API](#)。

## URI

PUT /v3/sources/{source\_id}/diskinfo

表 5-96 路径参数

参数	是否必选	参数类型	描述
source_id	是	String	源端服务器ID 最小长度：0 最大长度：255

## 请求参数

表 5-97 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	用户Token。 通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

表 5-98 请求 Body 参数

参数	是否必选	参数类型	描述
disks	否	Array of <a href="#">ServerDisk</a> objects	更新的磁盘信息 数组长度：0 - 65535
volumegroups	否	Array of <a href="#">VolumeGroups</a> objects	更新的卷信息 数组长度：0 - 65535
btrfs_list	否	Array of <a href="#">BtrfsFilesystem</a> objects	更新的btrfs信息 数组长度：0 - 65535

表 5-99 ServerDisk

参数	是否必选	参数类型	描述
name	是	String	磁盘名称 最小长度：0 最大长度：255
partition_style	否	String	磁盘的分区类型，添加源端时源端磁盘必选 MBR：mbr格式 GPT：gpt格式 枚举值： <ul style="list-style-type: none"> <li>● MBR</li> <li>● GPT</li> </ul>

参数	是否必选	参数类型	描述
device_use	是	String	磁盘类型 BOOT: BOOT设备 OS: 系统设备 枚举值: <ul style="list-style-type: none"> <li>• <b>BOOT</b></li> <li>• <b>OS</b></li> </ul>
size	是	Long	磁盘总大小, 以字节为单位 最小值: <b>0</b> 最大值: <b>9223372036854775807</b>
used_size	是	Long	磁盘已使用大小, 以字节为单位 最小值: <b>0</b> 最大值: <b>9223372036854775807</b>
physical_volumes	是	Array of <b>PhysicalVolume</b> objects	磁盘上的物理分区信息 数组长度: <b>0 - 65535</b>
os_disk	否	Boolean	是否为系统盘
relation_name	否	String	Linux系统 目的端ECS中与源端关联的磁盘名称 最小长度: <b>0</b> 最大长度: <b>255</b>
inode_size	否	Integer	inode数量 最小值: <b>0</b> 最大值: <b>2147483647</b>

表 5-100 PhysicalVolume

参数	是否必选	参数类型	描述
device_use	否	String	分区类型, 普通分区, 启动分区, 系统分区 最小长度: <b>0</b> 最大长度: <b>255</b>
file_system	否	String	文件系统类型 最小长度: <b>0</b> 最大长度: <b>255</b>

参数	是否必选	参数类型	描述
index	否	Integer	顺序 最小值：0 最大值：2147483647
mount_point	否	String	挂载点 最小长度：0 最大长度：255
name	否	String	名称，windows表示盘符，Linux表示设备号 最小长度：0 最大长度：255
size	否	Long	大小 最小值：0 最大值： 9223372036854775807
used_size	否	Long	使用大小 最小值：0 最大值： 9223372036854775807
inode_size	否	Integer	inode数量 最小值：0 最大值：2147483647
inode_nums	否	Long	inode节点数量 最小值：0 最大值： 9223372036854775807
uuid	否	String	GUID，可从源端查询 最小长度：0 最大长度：255
size_per_cluster	否	Integer	每个cluster大小 最小值：0 最大值：2147483647

表 5-101 VolumeGroups

参数	是否必选	参数类型	描述
components	否	String	Pv信息 最小长度：0 最大长度：255
free_size	否	Long	剩余空间 最小值：0 最大值： 9223372036854775807
logical_volumes	否	Array of LogicalVolumes objects	lv信息 数组长度：0 - 255
name	否	String	名称 最小长度：0 最大长度：255
size	否	Long	大小 最小值：0 最大值： 9223372036854775807

表 5-102 LogicalVolumes

参数	是否必选	参数类型	描述
block_count	否	Integer	块数量 最小值：0 最大值：2147483647 缺省值：0
block_size	否	Long	块大小 最小值：0 最大值：1048576 缺省值：0
file_system	是	String	文件系统 最小长度：0 最大长度：255
inode_size	是	Integer	inode数量 最小值：0 最大值：2147483647



参数	是否必选	参数类型	描述
inode_nums	否	Long	inode节点数量 最小值：0 最大值： <b>9223372036854775807</b>
device_use	否	String	分区类型，普通分区，启动分区，系统分区 最小长度：0 最大长度：255
mount_point	是	String	挂载点 最小长度：0 最大长度：256
name	是	String	名称 最小长度：0 最大长度：1024
size	是	Long	大小 最小值：0 最大值： <b>9223372036854775807</b>
used_size	是	Long	使用大小 最小值：0 最大值： <b>9223372036854775807</b>
free_size	是	Long	剩余空间 最小值：0 最大值： <b>9223372036854775807</b>

表 5-103 BtrfsFileSystem

参数	是否必选	参数类型	描述
name	是	String	文件系统名称 最小长度：0 最大长度：255
label	是	String	文件系统标签，若无标签为空字符串 最小长度：0 最大长度：255

参数	是否必选	参数类型	描述
uuid	是	String	文件系统的uuid 最小长度：0 最大长度：255
device	是	String	btrfs包含的设备名称 最小长度：0 最大长度：255
size	是	Long	文件系统数据占用大小 最小值：0 最大值： <b>9223372036854775807</b>
nodesize	是	Long	btrfs节点大小 最小值：0 最大值： <b>9223372036854775807</b>
sectorsize	是	Integer	扇区大小 最小值：0 最大值：2147483647
data_profile	是	String	数据配置（RAD） 最小长度：0 最大长度：255
system_profile	是	String	文件系统配置（RAD） 最小长度：0 最大长度：255
metadata_profile	是	String	元数据配置（RAD） 最小长度：0 最大长度：255
global_reserve_1	是	String	Btrfs文件系统信息 最小长度：0 最大长度：255
g_vol_used_size	是	Long	Btrfs卷已使用空间大小 最小值：0 最大值： <b>9223372036854775807</b>
default_subvol_id	是	String	默认子卷ID 最小长度：0 最大长度：255

参数	是否必选	参数类型	描述
default_subvol_name	是	String	默认子卷名称 最小长度：0 最大长度：255
default_subvol_mountpath	是	String	默认子卷挂载路径/BTRFS文件系统的挂载路径 最小长度：0 最大长度：255
subvolumn	是	Array of <b>BtrfsSubvolumn</b> objects	子卷信息 数组长度：0 - 65535

表 5-104 BtrfsSubvolumn

参数	是否必选	参数类型	描述
uuid	是	String	父卷的uuid 最小长度：0 最大长度：255
is_snapshot	是	String	子卷是否为快照 最小长度：0 最大长度：255
subvol_id	是	String	子卷的ID 最小长度：0 最大长度：255
parent_id	是	String	父卷ID 最小长度：0 最大长度：255
subvol_name	是	String	子卷的名称 最小长度：0 最大长度：255
subvol_mount_path	是	String	子卷的挂载路径 最小长度：0 最大长度：255

## 响应参数

状态码： 200

表 5-105 响应 Body 参数

参数	参数类型	描述
-	String	更新磁盘信息成功

状态码： 403

表 5-106 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度： 0 最大长度： 255
error_msg	String	错误信息 最小长度： 0 最大长度： 255
encoded_authorization_message	String	加密授权信息 最小长度： 0 最大长度： 65535
error_param	Array of strings	错误参数 最小长度： 0 最大长度： 65535 数组长度： 1 - 20
details	Array of <a href="#">details</a> objects	详细错误信息 数组长度： 1 - 20

表 5-107 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度： 0 最大长度： 65535
error_msg	String	SMS错误信息 最小长度： 0 最大长度： 65535

## 请求示例

更新服务器的磁盘信息，此接口会把服务器原有磁盘信息清空，然后更新成新磁盘信息，新的磁盘名称是/dev/vda，磁盘类型是BOOT，磁盘大小是42949672960字节。

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

```
{
  "disks": [ {
    "name": "/dev/vda",
    "device_use": "BOOT",
    "size": 42949672960,
    "partition_style": "MBR",
    "used_size": 42948624384,
    "physical_volumes": [ {
      "name": "/dev/vda1",
      "size": 2153775104,
      "device_use": "NORMAL",
      "used_size": 2153775104,
      "inode_size": 0,
      "file_system": "swap",
      "mount_point": ""
    }, {
      "name": "/dev/vda2",
      "size": 16862150656,
      "device_use": "BTRFS",
      "used_size": 16862150656,
      "inode_size": 0,
      "file_system": "btrfs",
      "mount_point": ""
    }, {
      "name": "/dev/vda3",
      "size": 23932698624,
      "device_use": "NORMAL",
      "used_size": 33988608,
      "inode_size": 0,
      "file_system": "xfs",
      "mount_point": "/home"
    }
  ]
}, {
  "name": "/dev/vdb",
  "device_use": "NORMAL",
  "size": 21474836480,
  "partition_style": "MBR",
  "used_size": 21473787904,
  "physical_volumes": [ {
    "name": "/dev/vdb1",
    "size": 21473787904,
    "device_use": "VOLUME_GROUP",
    "used_size": 21473787904,
    "inode_size": 0,
    "file_system": "LVM2_member",
    "mount_point": ""
  }
]
}, {
  "name": "/dev/vdc",
  "device_use": "VOLUME_GROUP",
  "size": 21474836480,
  "partition_style": "MBR",
  "used_size": 0,
  "physical_volumes": [ ]
}
],
"volumegroups": [ {
  "name": "vg1",
  "size": 42948624384,
  "components": "/dev/vdb1;/dev/vdc",
  "logical_volumes": [ {
    "name": "/dev/mapper/vg1-lv1",
    "device_use": "NORMAL",
```

```

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

```

```

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

```





## SDK 代码示例

SDK代码示例如下。

### Java

更新服务器的磁盘信息，此接口会把服务器原有磁盘信息清空，然后更新成新磁盘信息，新的磁盘名称是/dev/vda，磁盘类型是BOOT，磁盘大小是42949672960字节。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateDiskInfoSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateDiskInfoRequest request = new UpdateDiskInfoRequest();
        request.withSourceId("{source_id}");
        PutDiskInfoReq body = new PutDiskInfoReq();
        List<BtrfsSubvolumn> listBtrfsListSubvolumn = new ArrayList<>();
        listBtrfsListSubvolumn.add(
            new BtrfsSubvolumn()
                .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
                .withIsSnapshot("false")
                .withSubvolId("257")
                .withParentId("5")
                .withSubvolName("@")
        );
        listBtrfsListSubvolumn.add(
            new BtrfsSubvolumn()
                .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
                .withIsSnapshot("false")
                .withSubvolId("258")
                .withParentId("257")
                .withSubvolName("@.snapshots")
                .withSubvolMountPath("/.snapshots")
        );
        listBtrfsListSubvolumn.add(
            new BtrfsSubvolumn()
                .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
                .withIsSnapshot("true")
                .withSubvolId("259")
        );
    }
}
```

```

        .withParentId("258")
        .withSubvolName("@/.snapshots/1/snapshot")
        .withSubvolMountPath("/")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("260")
            .withParentId("257")
            .withSubvolName("@/boot/grub2/i386-pc")
            .withSubvolMountPath("/boot/grub2/i386-pc")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("261")
            .withParentId("257")
            .withSubvolName("@/boot/grub2/x86_64-efi")
            .withSubvolMountPath("/boot/grub2/x86_64-efi")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("262")
            .withParentId("257")
            .withSubvolName("@/opt")
            .withSubvolMountPath("/opt")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("263")
            .withParentId("257")
            .withSubvolName("@/srv")
            .withSubvolMountPath("/srv")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("264")
            .withParentId("257")
            .withSubvolName("@/tmp")
            .withSubvolMountPath("/tmp")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("265")
            .withParentId("257")
            .withSubvolName("@/usr/local")
            .withSubvolMountPath("/usr/local")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("266")
            .withParentId("257")
            .withSubvolName("@/var/cache")
            .withSubvolMountPath("/var/cache")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()

```

```

        .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
        .withIsSnapshot("false")
        .withSubvolId("267")
        .withParentId("257")
        .withSubvolName("@/var/crash")
        .withSubvolMountPath("/var/crash")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("268")
            .withParentId("257")
            .withSubvolName("@/var/lib/libvirt/images")
            .withSubvolMountPath("/var/lib/libvirt/images")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("269")
            .withParentId("257")
            .withSubvolName("@/var/lib/machines")
            .withSubvolMountPath("/var/lib/machines")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("270")
            .withParentId("257")
            .withSubvolName("@/var/lib/mailman")
            .withSubvolMountPath("/var/lib/mailman")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("271")
            .withParentId("257")
            .withSubvolName("@/var/lib/mariadb")
            .withSubvolMountPath("/var/lib/mariadb")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("272")
            .withParentId("257")
            .withSubvolName("@/var/lib/mysql")
            .withSubvolMountPath("/var/lib/mysql")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("273")
            .withParentId("257")
            .withSubvolName("@/var/lib/named")
            .withSubvolMountPath("/var/lib/named")
    );
    listBtrfsListSubvolumn.add(
        new BtrfsSubvolumn()
            .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withIsSnapshot("false")
            .withSubvolId("274")
            .withParentId("257")
            .withSubvolName("@/var/lib/pgsql")
            .withSubvolMountPath("/var/lib/pgsql")
    );

```

```

);
listBtrfsListSubvolumn.add(
    new BtrfsSubvolumn()
        .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
        .withIsSnapshot("false")
        .withSubvolId("275")
        .withParentId("257")
        .withSubvolName("@/var/log")
        .withSubvolMountPath("/var/log")
);
listBtrfsListSubvolumn.add(
    new BtrfsSubvolumn()
        .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
        .withIsSnapshot("false")
        .withSubvolId("276")
        .withParentId("257")
        .withSubvolName("@/var/opt")
        .withSubvolMountPath("/var/opt")
);
listBtrfsListSubvolumn.add(
    new BtrfsSubvolumn()
        .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
        .withIsSnapshot("false")
        .withSubvolId("277")
        .withParentId("257")
        .withSubvolName("@/var/spool")
        .withSubvolMountPath("/var/spool")
);
listBtrfsListSubvolumn.add(
    new BtrfsSubvolumn()
        .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
        .withIsSnapshot("false")
        .withSubvolId("278")
        .withParentId("257")
        .withSubvolName("@/var/tmp")
        .withSubvolMountPath("/var/tmp")
);
listBtrfsListSubvolumn.add(
    new BtrfsSubvolumn()
        .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
        .withIsSnapshot("true")
        .withSubvolId("282")
        .withParentId("258")
        .withSubvolName("@/.snapshots/2/snapshot")
);
List<BtrfsFileSystem> listbodyBtrfsList = new ArrayList<>();
listbodyBtrfsList.add(
    new BtrfsFileSystem()
        .withName("/dev/vda2")
        .withLabel("none")
        .withUuid("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
        .withDevice("/dev/vda2")
        .withSize(3.30GiBL)
        .withNodesize(16384L)
        .withSectorsize(4096)
        .withDataProfile("single")
        .withSystemProfile("single")
        .withMetadataProfile("single")
        .withGlobalReserve1("single")
        .withGVolUsedSize(3894038528L)
        .withDefaultSubvolId("259")
        .withDefaultSubvolName("@/.snapshots/1/snapshot")
        .withDefaultSubvolMountpath("/")
        .withSubvolumn(listBtrfsListSubvolumn)
);
List<LogicalVolumes> listVolumegroupsLogicalVolumes = new ArrayList<>();
listVolumegroupsLogicalVolumes.add(
    new LogicalVolumes()
        .withFileSystem("ext4")

```

```

        .withInodeSize(256)
        .withDeviceUse("NORMAL")
        .withMountPoint("/mnt/lv1")
        .withName("/dev/mapper/vg1-lv1")
        .withSize(10737418240L)
        .withUsedSize(23580672L)
        .withFreeSize(10713837568L)
    );
    List<VolumeGroups> listbodyVolumegroups = new ArrayList<>();
    listbodyVolumegroups.add(
        new VolumeGroups()
            .withComponents("/dev/vdb1;/dev/vdc")
            .withLogicalVolumes(listVolumegroupsLogicalVolumes)
            .withName("vg1")
            .withSize(42948624384L)
    );
    List<PhysicalVolume> listDisksPhysicalVolumes = new ArrayList<>();
    listDisksPhysicalVolumes.add(
        new PhysicalVolume()
            .withDeviceUse("VOLUME_GROUP")
            .withFileSystem("LVM2_member")
            .withMountPoint("")
            .withName("/dev/vdb1")
            .withSize(21473787904L)
            .withUsedSize(21473787904L)
            .withInodeSize(0)
    );
    List<PhysicalVolume> listDisksPhysicalVolumes1 = new ArrayList<>();
    listDisksPhysicalVolumes1.add(
        new PhysicalVolume()
            .withDeviceUse("NORMAL")
            .withFileSystem("swap")
            .withMountPoint("")
            .withName("/dev/vda1")
            .withSize(2153775104L)
            .withUsedSize(2153775104L)
            .withInodeSize(0)
    );
    listDisksPhysicalVolumes1.add(
        new PhysicalVolume()
            .withDeviceUse("BTRFS")
            .withFileSystem("btrfs")
            .withMountPoint("")
            .withName("/dev/vda2")
            .withSize(16862150656L)
            .withUsedSize(16862150656L)
            .withInodeSize(0)
    );
    listDisksPhysicalVolumes1.add(
        new PhysicalVolume()
            .withDeviceUse("NORMAL")
            .withFileSystem("xfs")
            .withMountPoint("/home")
            .withName("/dev/vda3")
            .withSize(23932698624L)
            .withUsedSize(33988608L)
            .withInodeSize(0)
    );
    List<ServerDisk> listbodyDisks = new ArrayList<>();
    listbodyDisks.add(
        new ServerDisk()
            .withName("/dev/vda")
            .withPartitionStyle(ServerDisk.PartitionStyleEnum.fromValue("MBR"))
            .withDeviceUse(ServerDisk.DeviceUseEnum.fromValue("BOOT"))
            .withSize(42949672960L)
            .withUsedSize(42948624384L)
            .withPhysicalVolumes(listDisksPhysicalVolumes1)
    );
    listbodyDisks.add(

```

```

        new ServerDisk()
            .WithName("/dev/vdb")
            .withPartitionStyle(ServerDisk.PartitionStyleEnum.fromValue("MBR"))
            .withDeviceUse(ServerDisk.DeviceUseEnum.fromValue("NORMAL"))
            .withSize(21474836480L)
            .withUsedSize(21473787904L)
            .withPhysicalVolumes(listDisksPhysicalVolumes)
    );
    listbodyDisks.add(
        new ServerDisk()
            .WithName("/dev/vdc")
            .withPartitionStyle(ServerDisk.PartitionStyleEnum.fromValue("MBR"))
            .withDeviceUse(ServerDisk.DeviceUseEnum.fromValue("VOLUME_GROUP"))
            .withSize(21474836480L)
            .withUsedSize(0L)
            .withPhysicalVolumes()
    );
    body.withBtrfsList(listbodyBtrfsList);
    body.withVolumeGroups(listbodyVolumeGroups);
    body.withDisks(listbodyDisks);
    request.withBody(body);
    try {
        UpdateDiskInfoResponse response = client.updateDiskInfo(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
}

```

## Python

更新服务器的磁盘信息，此接口会把服务器原有磁盘信息清空，然后更新成新磁盘信息，新的磁盘名称是/dev/vda，磁盘类型是BOOT，磁盘大小是42949672960字节。

```

# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateDiskInfoRequest()

```

```

request.source_id = "{source_id}"
listSubvolumnBtrfsList = [
  BtrfsSubvolumn(
    uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    is_snapshot="false",
    subvol_id="257",
    parent_id="5",
    subvol_name="@",
  ),
  BtrfsSubvolumn(
    uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    is_snapshot="false",
    subvol_id="258",
    parent_id="257",
    subvol_name="@/.snapshots",
    subvol_mount_path="/.snapshots"
  ),
  BtrfsSubvolumn(
    uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    is_snapshot="true",
    subvol_id="259",
    parent_id="258",
    subvol_name="@/.snapshots/1/snapshot",
    subvol_mount_path="/"
  ),
  BtrfsSubvolumn(
    uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    is_snapshot="false",
    subvol_id="260",
    parent_id="257",
    subvol_name="@/boot/grub2/i386-pc",
    subvol_mount_path="/boot/grub2/i386-pc"
  ),
  BtrfsSubvolumn(
    uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    is_snapshot="false",
    subvol_id="261",
    parent_id="257",
    subvol_name="@/boot/grub2/x86_64-efi",
    subvol_mount_path="/boot/grub2/x86_64-efi"
  ),
  BtrfsSubvolumn(
    uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    is_snapshot="false",
    subvol_id="262",
    parent_id="257",
    subvol_name="@/opt",
    subvol_mount_path="/opt"
  ),
  BtrfsSubvolumn(
    uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    is_snapshot="false",
    subvol_id="263",
    parent_id="257",
    subvol_name="@/srv",
    subvol_mount_path="/srv"
  ),
  BtrfsSubvolumn(
    uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    is_snapshot="false",
    subvol_id="264",
    parent_id="257",
    subvol_name="@/tmp",
    subvol_mount_path="/tmp"
  ),
  BtrfsSubvolumn(
    uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    is_snapshot="false",
    subvol_id="265",

```

```

        parent_id="257",
        subvol_name="@/usr/local",
        subvol_mount_path="/usr/local"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="266",
        parent_id="257",
        subvol_name="@/var/cache",
        subvol_mount_path="/var/cache"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="267",
        parent_id="257",
        subvol_name="@/var/crash",
        subvol_mount_path="/var/crash"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="268",
        parent_id="257",
        subvol_name="@/var/lib/libvirt/images",
        subvol_mount_path="/var/lib/libvirt/images"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="269",
        parent_id="257",
        subvol_name="@/var/lib/machines",
        subvol_mount_path="/var/lib/machines"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="270",
        parent_id="257",
        subvol_name="@/var/lib/mailman",
        subvol_mount_path="/var/lib/mailman"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="271",
        parent_id="257",
        subvol_name="@/var/lib/mariadb",
        subvol_mount_path="/var/lib/mariadb"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="272",
        parent_id="257",
        subvol_name="@/var/lib/mysql",
        subvol_mount_path="/var/lib/mysql"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="273",
        parent_id="257",
        subvol_name="@/var/lib/named",
        subvol_mount_path="/var/lib/named"
    ),
    BtrfsSubvolumn(

```



```

        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="274",
        parent_id="257",
        subvol_name="@/var/lib/pgsql",
        subvol_mount_path="/var/lib/pgsql"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="275",
        parent_id="257",
        subvol_name="@/var/log",
        subvol_mount_path="/var/log"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="276",
        parent_id="257",
        subvol_name="@/var/opt",
        subvol_mount_path="/var/opt"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="277",
        parent_id="257",
        subvol_name="@/var/spool",
        subvol_mount_path="/var/spool"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="false",
        subvol_id="278",
        parent_id="257",
        subvol_name="@/var/tmp",
        subvol_mount_path="/var/tmp"
    ),
    BtrfsSubvolumn(
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        is_snapshot="true",
        subvol_id="282",
        parent_id="258",
        subvol_name="@/.snapshots/2/snapshot"
    )
]
listBtrfsListbody = [
    BtrfsFileSystem(
        name="/dev/vda2",
        label="none",
        uuid="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        device="/dev/vda2",
        size=3.30GiB,
        nodesize=16384,
        sectorsize=4096,
        data_profile="single",
        system_profile="single",
        metadata_profile="single",
        global_reserve1="single",
        g_vol_used_size=3894038528,
        default_subvolid="259",
        default_subvol_name="@.snapshots/1/snapshot",
        default_subvol_mountpath="/",
        subvolumn=listSubvolumnBtrfsList
    )
]
listLogicalVolumesVolumegroups = [
    LogicalVolumes(

```

```

        file_system="ext4",
        inode_size=256,
        device_use="NORMAL",
        mount_point="/mnt/lv1",
        name="/dev/mapper/vg1-lv1",
        size=10737418240,
        used_size=23580672,
        free_size=10713837568
    )
]
listVolumeGroupsbody = [
    VolumeGroups(
        components="/dev/vdb1;/dev/vdc",
        logical_volumes=listLogicalVolumesVolumeGroups,
        name="vg1",
        size=42948624384
    )
]
listPhysicalVolumesDisks = [
    PhysicalVolume(
        device_use="VOLUME_GROUP",
        file_system="LVM2_member",
        mount_point="",
        name="/dev/vdb1",
        size=21473787904,
        used_size=21473787904,
        inode_size=0
    )
]
listPhysicalVolumesDisks1 = [
    PhysicalVolume(
        device_use="NORMAL",
        file_system="swap",
        mount_point="",
        name="/dev/vda1",
        size=2153775104,
        used_size=2153775104,
        inode_size=0
    ),
    PhysicalVolume(
        device_use="BTRFS",
        file_system="btrfs",
        mount_point="",
        name="/dev/vda2",
        size=16862150656,
        used_size=16862150656,
        inode_size=0
    ),
    PhysicalVolume(
        device_use="NORMAL",
        file_system="xfs",
        mount_point="/home",
        name="/dev/vda3",
        size=23932698624,
        used_size=33988608,
        inode_size=0
    )
]
listDisksbody = [
    ServerDisk(
        name="/dev/vda",
        partition_style="MBR",
        device_use="BOOT",
        size=42949672960,
        used_size=42948624384,
        physical_volumes=listPhysicalVolumesDisks1
    ),
    ServerDisk(
        name="/dev/vdb",

```

```

        partition_style="MBR",
        device_use="NORMAL",
        size=21474836480,
        used_size=21473787904,
        physical_volumes=listPhysicalVolumesDisks
    ),
    ServerDisk(
        name="/dev/vdc",
        partition_style="MBR",
        device_use="VOLUME_GROUP",
        size=21474836480,
        used_size=0,
    )
]
request.body = PutDiskInfoReq(
    btrfs_list=listBtrfsListbody,
    volumegroups=listVolumegroupsbody,
    disks=listDisksbody
)
response = client.update_disk_info(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)

```

## Go

更新服务器的磁盘信息，此接口会把服务器原有磁盘信息清空，然后更新成新磁盘信息，新的磁盘名称是/dev/vda，磁盘类型是BOOT，磁盘大小是42949672960字节。

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateDiskInfoRequest{}
    request.SourceId = "{source_id}"
    var listSubvolumnBtrfsList = []model.BtrfsSubvolumn{
        {
            Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
            IsSnapshot: "false",
            Subvollid: "257",
        }
    }
}

```

```

    ParentId: "5",
    SubvolName: "@",
  },
  {
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    IsSnapshot: "false",
    Subvollid: "258",
    ParentId: "257",
    SubvolName: "@/.snapshots",
    SubvolMountPath: "/.snapshots",
  },
  {
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    IsSnapshot: "true",
    Subvollid: "259",
    ParentId: "258",
    SubvolName: "@/.snapshots/1/snapshot",
    SubvolMountPath: "/",
  },
  {
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    IsSnapshot: "false",
    Subvollid: "260",
    ParentId: "257",
    SubvolName: "@/boot/grub2/i386-pc",
    SubvolMountPath: "/boot/grub2/i386-pc",
  },
  {
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    IsSnapshot: "false",
    Subvollid: "261",
    ParentId: "257",
    SubvolName: "@/boot/grub2/x86_64-efi",
    SubvolMountPath: "/boot/grub2/x86_64-efi",
  },
  {
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    IsSnapshot: "false",
    Subvollid: "262",
    ParentId: "257",
    SubvolName: "@/opt",
    SubvolMountPath: "/opt",
  },
  {
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    IsSnapshot: "false",
    Subvollid: "263",
    ParentId: "257",
    SubvolName: "@/srv",
    SubvolMountPath: "/srv",
  },
  {
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    IsSnapshot: "false",
    Subvollid: "264",
    ParentId: "257",
    SubvolName: "@/tmp",
    SubvolMountPath: "/tmp",
  },
  {
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    IsSnapshot: "false",
    Subvollid: "265",
    ParentId: "257",
    SubvolName: "@/usr/local",
    SubvolMountPath: "/usr/local",
  },
  {
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",

```

```

IsSnapshot: "false",
Subvollid: "266",
ParentId: "257",
SubvolName: "@/var/cache",
SubvolMountPath: "/var/cache",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "267",
  ParentId: "257",
  SubvolName: "@/var/crash",
  SubvolMountPath: "/var/crash",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "268",
  ParentId: "257",
  SubvolName: "@/var/lib/libvirt/images",
  SubvolMountPath: "/var/lib/libvirt/images",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "269",
  ParentId: "257",
  SubvolName: "@/var/lib/machines",
  SubvolMountPath: "/var/lib/machines",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "270",
  ParentId: "257",
  SubvolName: "@/var/lib/mailman",
  SubvolMountPath: "/var/lib/mailman",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "271",
  ParentId: "257",
  SubvolName: "@/var/lib/mariadb",
  SubvolMountPath: "/var/lib/mariadb",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "272",
  ParentId: "257",
  SubvolName: "@/var/lib/mysql",
  SubvolMountPath: "/var/lib/mysql",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "273",
  ParentId: "257",
  SubvolName: "@/var/lib/named",
  SubvolMountPath: "/var/lib/named",
},
{
  Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  IsSnapshot: "false",
  Subvollid: "274",
  ParentId: "257",
  SubvolName: "@/var/lib/pgsql",
  SubvolMountPath: "/var/lib/pgsql",
}

```

```

    },
    {
      Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      IsSnapshot: "false",
      Subvollid: "275",
      ParentId: "257",
      SubvolName: "@/var/log",
      SubvolMountPath: "/var/log",
    },
    {
      Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      IsSnapshot: "false",
      Subvollid: "276",
      ParentId: "257",
      SubvolName: "@/var/opt",
      SubvolMountPath: "/var/opt",
    },
    {
      Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      IsSnapshot: "false",
      Subvollid: "277",
      ParentId: "257",
      SubvolName: "@/var/spool",
      SubvolMountPath: "/var/spool",
    },
    {
      Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      IsSnapshot: "false",
      Subvollid: "278",
      ParentId: "257",
      SubvolName: "@/var/tmp",
      SubvolMountPath: "/var/tmp",
    },
    {
      Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      IsSnapshot: "true",
      Subvollid: "282",
      ParentId: "258",
      SubvolName: "@/.snapshots/2/snapshot",
    },
  ],
}
var listBtrfsListbody = []model.BtrfsFileSystem{
  {
    Name: "/dev/vda2",
    Label: "none",
    Uuid: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    Device: "/dev/vda2",
    Size: int64(3.30GiB),
    Nodesize: int64(16384),
    Sectorsize: int32(4096),
    DataProfile: "single",
    SystemProfile: "single",
    MetadataProfile: "single",
    GlobalReserve1: "single",
    GVolUsedSize: int64(3894038528),
    DefaultSubvollid: "259",
    DefaultSubvolName: "@/.snapshots/1/snapshot",
    DefaultSubvolMountpath: "/",
    Subvolumn: listSubvolumnBtrfsList,
  },
}
deviceUseLogicalVolumes:= "NORMAL"
var listLogicalVolumesVolumegroups = []model.LogicalVolumes{
  {
    FileSystem: "ext4",
    InodeSize: int32(256),
    DeviceUse: &deviceUseLogicalVolumes,
    MountPoint: "/mnt/lv1",
    Name: "/dev/mapper/vg1-lv1",
  },
}

```

```

        Size: int64(10737418240),
        UsedSize: int64(23580672),
        FreeSize: int64(10713837568),
    },
}
componentsVolumegroups:= "/dev/vdb1;/dev/vdc"
nameVolumegroups:= "vg1"
sizeVolumegroups:= int64(42948624384)
var listVolumegroupsboby = []model.VolumeGroups{
    {
        Components: &componentsVolumegroups,
        LogicalVolumes: &listLogicalVolumesVolumegroups,
        Name: &nameVolumegroups,
        Size: &sizeVolumegroups,
    },
}
deviceUsePhysicalVolumes:= "VOLUME_GROUP"
fileSystemPhysicalVolumes:= "LVM2_member"
mountPointPhysicalVolumes:= ""
namePhysicalVolumes:= "/dev/vdb1"
sizePhysicalVolumes:= int64(21473787904)
usedSizePhysicalVolumes:= int64(21473787904)
inodeSizePhysicalVolumes:= int32(0)
var listPhysicalVolumesDisks = []model.PhysicalVolume{
    {
        DeviceUse: &deviceUsePhysicalVolumes,
        FileSystem: &fileSystemPhysicalVolumes,
        MountPoint: &mountPointPhysicalVolumes,
        Name: &namePhysicalVolumes,
        Size: &sizePhysicalVolumes,
        UsedSize: &usedSizePhysicalVolumes,
        InodeSize: &inodeSizePhysicalVolumes,
    },
}
deviceUsePhysicalVolumes1:= "NORMAL"
fileSystemPhysicalVolumes1:= "swap"
mountPointPhysicalVolumes1:= ""
namePhysicalVolumes1:= "/dev/vda1"
sizePhysicalVolumes1:= int64(2153775104)
usedSizePhysicalVolumes1:= int64(2153775104)
inodeSizePhysicalVolumes1:= int32(0)
deviceUsePhysicalVolumes2:= "BTRFS"
fileSystemPhysicalVolumes2:= "btrfs"
mountPointPhysicalVolumes2:= ""
namePhysicalVolumes2:= "/dev/vda2"
sizePhysicalVolumes2:= int64(16862150656)
usedSizePhysicalVolumes2:= int64(16862150656)
inodeSizePhysicalVolumes2:= int32(0)
deviceUsePhysicalVolumes3:= "NORMAL"
fileSystemPhysicalVolumes3:= "xfs"
mountPointPhysicalVolumes3:= "/home"
namePhysicalVolumes3:= "/dev/vda3"
sizePhysicalVolumes3:= int64(23932698624)
usedSizePhysicalVolumes3:= int64(33988608)
inodeSizePhysicalVolumes3:= int32(0)
var listPhysicalVolumesDisks1 = []model.PhysicalVolume{
    {
        DeviceUse: &deviceUsePhysicalVolumes1,
        FileSystem: &fileSystemPhysicalVolumes1,
        MountPoint: &mountPointPhysicalVolumes1,
        Name: &namePhysicalVolumes1,
        Size: &sizePhysicalVolumes1,
        UsedSize: &usedSizePhysicalVolumes1,
        InodeSize: &inodeSizePhysicalVolumes1,
    },
    {
        DeviceUse: &deviceUsePhysicalVolumes2,
        FileSystem: &fileSystemPhysicalVolumes2,
        MountPoint: &mountPointPhysicalVolumes2,
    },
}

```

```

        Name: &namePhysicalVolumes2,
        Size: &sizePhysicalVolumes2,
        UsedSize: &usedSizePhysicalVolumes2,
        InodeSize: &inodeSizePhysicalVolumes2,
    },
    {
        DeviceUse: &deviceUsePhysicalVolumes3,
        FileSystem: &fileSystemPhysicalVolumes3,
        MountPoint: &mountPointPhysicalVolumes3,
        Name: &namePhysicalVolumes3,
        Size: &sizePhysicalVolumes3,
        UsedSize: &usedSizePhysicalVolumes3,
        InodeSize: &inodeSizePhysicalVolumes3,
    },
}
partitionStyleDisks:= model.GetServerDiskPartitionStyleEnum().MBR
partitionStyleDisks1:= model.GetServerDiskPartitionStyleEnum().MBR
partitionStyleDisks2:= model.GetServerDiskPartitionStyleEnum().MBR
var listDisksbody = []model.ServerDisk{
    {
        Name: "/dev/vda",
        PartitionStyle: &partitionStyleDisks,
        DeviceUse: model.GetServerDiskDeviceUseEnum().BOOT,
        Size: int64(42949672960),
        UsedSize: int64(42948624384),
        PhysicalVolumes: listPhysicalVolumesDisks1,
    },
    {
        Name: "/dev/vdb",
        PartitionStyle: &partitionStyleDisks1,
        DeviceUse: model.GetServerDiskDeviceUseEnum().NORMAL,
        Size: int64(21474836480),
        UsedSize: int64(21473787904),
        PhysicalVolumes: listPhysicalVolumesDisks,
    },
    {
        Name: "/dev/vdc",
        PartitionStyle: &partitionStyleDisks2,
        DeviceUse: model.GetServerDiskDeviceUseEnum().VOLUME_GROUP,
        Size: int64(21474836480),
        UsedSize: int64(0),
    },
}
}
request.Body = &model.PutDiskInfoReq{
    BtrfsList: &listBtrfsListbody,
    Volumegroups: &listVolumegroupsbody,
    Disks: &listDisksbody,
}
response, err := client.UpdateDiskInfo(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}

```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	更新磁盘信息成功



状态码	描述
403	鉴权失败

## 错误码

请参见[错误码](#)。

## 5.4 任务管理

### 5.4.1 创建迁移任务

#### 功能介绍

根据源端服务器创建一个迁移任务。

#### 调用方法

请参见[如何调用API](#)。

#### URI

POST /v3/tasks

#### 请求参数

表 5-108 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

表 5-109 请求 Body 参数

参数	是否必选	参数类型	描述
name	是	String	任务名称 最小长度：0 最大长度：255

参数	是否必选	参数类型	描述
type	是	String	任务类型 MIGRATE_FILE:文件级迁移 MIGRATE_BLOCK:块级迁移 枚举值: <ul style="list-style-type: none"> <li>● MIGRATE_FILE</li> <li>● MIGRATE_BLOCK</li> </ul>
start_target_server	否	Boolean	迁移后是否启动目的端虚拟机 缺省值: <b>true</b>
auto_start	否	Boolean	是否自动启动
os_type	是	String	操作系统类型 最小长度: <b>0</b> 最大长度: <b>255</b>
source_server	是	<a href="#">SourceServer</a> <a href="#">ByTask</a> object	源端服务器信息
target_server	是	<a href="#">TargetServer</a> <a href="#">ByTask</a> object	目的端虚拟机信息
migration_ip	否	String	迁移IP, 如果是自动创建虚拟机, 不需要此参数 最小长度: <b>0</b> 最大长度: <b>255</b>
region_name	是	String	region的名称 最小长度: <b>0</b> 最大长度: <b>255</b>
region_id	是	String	region ID 最小长度: <b>0</b> 最大长度: <b>255</b>
project_name	是	String	项目名称 最小长度: <b>0</b> 最大长度: <b>255</b>
project_id	是	String	项目ID 最小长度: <b>0</b> 最大长度: <b>255</b>
priority	否	Integer	优先级。默认为1 最小值: <b>0</b> 最大值: <b>65535</b>

参数	是否必选	参数类型	描述
vm_template_id	否	String	自动创建虚拟机使用模板 最小长度： <b>0</b> 最大长度： <b>255</b>
use_public_ip	否	Boolean	是否使用公网ip 缺省值： <b>true</b>
use_ipv6	否	Boolean	是否使用ipv6
syncing	否	Boolean	复制或者同步后是否会继续持续同步，不添加则默认是false 缺省值： <b>false</b>
exist_server	否	Boolean	是否存在服务，如果存在，则创建任务
start_network_check	否	Boolean	是否开启网络检测
speed_limit	否	Integer	迁移速率限制值 最小值： <b>0</b> 最大值： <b>10000</b>
over_speed_threshold	否	Double	停止迁移的超速阈值。是一个迁移速率的保护机制，超出该阈值会停止任务。它主要用于控制迁移过程中资源（特别是网络带宽）的消耗，确保系统的整体性能不受单一迁移任务影响 单位是百分比 最小值： <b>0</b> 最大值： <b>100</b>
is_need_consistency_check	否	Boolean	是否进行一致性校验

表 5-110 SourceServerByTask

参数	是否必选	参数类型	描述
id	是	String	源端服务器ID 最小长度： <b>0</b> 最大长度： <b>255</b>

表 5-111 TargetServerByTask

参数	是否必选	参数类型	描述
btrfs_list	否	Array of <b>BtrfsFileSystem</b> objects	btrfs信息，数据从源端获取 数组长度：0 - 65535
disks	是	Array of <b>TargetDisks</b> objects	磁盘信息 数组长度：0 - 65535
name	是	String	名称 最小长度：0 最大长度：255
vm_id	是	String	虚拟机ID 最小长度：0 最大长度：255
volume_group_s	否	Array of <b>VolumeGroups</b> objects	卷组，数据从源端获取 数组长度：0 - 65535

表 5-112 BtrfsFileSystem

参数	是否必选	参数类型	描述
name	是	String	文件系统名称 最小长度：0 最大长度：255
label	是	String	文件系统标签，若无标签为空字符串 最小长度：0 最大长度：255
uuid	是	String	文件系统的uuid 最小长度：0 最大长度：255
device	是	String	btrfs包含的设备名称 最小长度：0 最大长度：255
size	是	Long	文件系统数据占用大小 最小值：0 最大值： <b>9223372036854775807</b>

参数	是否必选	参数类型	描述
nodesize	是	Long	btrfs节点大小 最小值： <b>0</b> 最大值： <b>9223372036854775807</b>
sectorsize	是	Integer	扇区大小 最小值： <b>0</b> 最大值： <b>2147483647</b>
data_profile	是	String	数据配置（RAD） 最小长度： <b>0</b> 最大长度： <b>255</b>
system_profile	是	String	文件系统配置（RAD） 最小长度： <b>0</b> 最大长度： <b>255</b>
metadata_profile	是	String	元数据配置（RAD） 最小长度： <b>0</b> 最大长度： <b>255</b>
global_reserve 1	是	String	Btrfs文件系统信息 最小长度： <b>0</b> 最大长度： <b>255</b>
g_vol_used_size	是	Long	Btrfs卷已使用空间大小 最小值： <b>0</b> 最大值： <b>9223372036854775807</b>
default_subvol id	是	String	默认子卷ID 最小长度： <b>0</b> 最大长度： <b>255</b>
default_subvol name	是	String	默认子卷名称 最小长度： <b>0</b> 最大长度： <b>255</b>
default_subvol mountpath	是	String	默认子卷挂载路径/BTRFS文件系统的挂载路径 最小长度： <b>0</b> 最大长度： <b>255</b>
subvolumn	是	Array of <b>BtrfsSubvolumn</b> objects	子卷信息 数组长度： <b>0 - 65535</b>

表 5-113 BtrfsSubvolumn

参数	是否必选	参数类型	描述
uuid	是	String	父卷的uuid 最小长度：0 最大长度：255
is_snapshot	是	String	子卷是否为快照 最小长度：0 最大长度：255
subvol_id	是	String	子卷的ID 最小长度：0 最大长度：255
parent_id	是	String	父卷ID 最小长度：0 最大长度：255
subvol_name	是	String	子卷的名称 最小长度：0 最大长度：255
subvol_mount_path	是	String	子卷的挂载路径 最小长度：0 最大长度：255

表 5-114 TargetDisks

参数	是否必选	参数类型	描述
device_use	否	String	磁盘类型，普通磁盘，OS所在磁盘，BOOT所在磁盘 BOOT: BOOT设备 OS: 系统设备 NORMAL:平常 缺省值： <b>NORMAL</b> 枚举值： <ul style="list-style-type: none"> <li>● <b>NORMAL</b></li> <li>● <b>OS</b></li> <li>● <b>BOOT</b></li> </ul>

参数	是否必选	参数类型	描述
disk_id	否	String	磁盘ID,自动创建虚拟机不用设置 最小长度: 0 最大长度: 255
name	是	String	名称, 根据磁盘顺序设置为disk X 最小长度: 0 最大长度: 255
physical_volumes	是	Array of <b>PhysicalVolumes</b> objects	物理卷信息 数组长度: 0 - 65535
size	是	Long	大小 最小值: 0 最大值: <b>9223372036854775807</b>
used_size	是	Long	使用大小 最小值: 0 最大值: <b>9223372036854775807</b>

表 5-115 PhysicalVolumes

参数	是否必选	参数类型	描述
device_use	否	String	分区类型, 普通分区, 启动分区, 系统分区 最小长度: 0 最大长度: 255
file_system	否	String	文件系统类型 最小长度: 0 最大长度: 255
index	否	Integer	顺序 最小值: 0 最大值: <b>2147483647</b>
mount_point	否	String	挂载点 最小长度: 0 最大长度: 255

参数	是否必选	参数类型	描述
name	否	String	名称, windows表示盘符, Linux表示设备号 最小长度: 0 最大长度: 255
size	否	Long	大小 最小值: 0 最大值: 9223372036854775807
inode_size	否	Long	inode数量 最小值: 0 最大值: 9223372036854775807
used_size	否	Long	使用大小 最小值: 0 最大值: 9223372036854775807
uuid	否	String	GUID, 可从源端查询 最小长度: 0 最大长度: 255

表 5-116 VolumeGroups

参数	是否必选	参数类型	描述
components	否	String	PV信息 最小长度: 0 最大长度: 255
free_size	否	Long	剩余空间 最小值: 0 最大值: 9223372036854775807
logical_volumes	否	Array of <b>LogicalVolumes</b> objects	lv信息 数组长度: 0 - 255
name	否	String	名称 最小长度: 0 最大长度: 255



参数	是否必选	参数类型	描述
size	否	Long	大小 最小值：0 最大值： <b>9223372036854775807</b>

表 5-117 LogicalVolumes

参数	是否必选	参数类型	描述
block_count	否	Integer	块数量 最小值：0 最大值：2147483647 缺省值：0
block_size	否	Long	块大小 最小值：0 最大值：1048576 缺省值：0
file_system	是	String	文件系统 最小长度：0 最大长度：255
inode_size	是	Integer	inode数量 最小值：0 最大值：2147483647
inode_nums	否	Long	inode节点数量 最小值：0 最大值： <b>9223372036854775807</b>
device_use	否	String	分区类型，普通分区，启动分区，系统分区 最小长度：0 最大长度：255
mount_point	是	String	挂载点 最小长度：0 最大长度：256
name	是	String	名称 最小长度：0 最大长度：1024

参数	是否必选	参数类型	描述
size	是	Long	大小 最小值：0 最大值： 9223372036854775807
used_size	是	Long	使用大小 最小值：0 最大值： 9223372036854775807
free_size	是	Long	剩余空间 最小值：0 最大值： 9223372036854775807

## 响应参数

状态码： 200

表 5-118 响应 Body 参数

参数	参数类型	描述
id	String	创建成功返回的任务ID 最小长度：0 最大长度：255

状态码： 403

表 5-119 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度：0 最大长度：255
error_msg	String	错误信息 最小长度：0 最大长度：255
encoded_authorized_message	String	加密授权信息 最小长度：0 最大长度：65535

参数	参数类型	描述
error_param	Array of strings	错误参数 最小长度: 0 最大长度: 65535 数组长度: 1 - 20
details	Array of <b>details</b> objects	详细错误信息 数组长度: 1 - 20

表 5-120 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度: 0 最大长度: 65535
error_msg	String	SMS错误信息 最小长度: 0 最大长度: 65535

## 请求示例

创建一个迁移任务，迁移任务名称是MigrationTask，迁移类型是MIGRATE\_FILE文件级迁移，源端操作系统类型是LINUX，使用公网迁移是true，迁移region名称是region\_name，迁移region的ID是region\_id。

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

```
{
  "name": "MigrationTask",
  "type": "MIGRATE_FILE",
  "os_type": "LINUX",
  "start_target_server": true,
  "use_public_ip": true,
  "migration_ip": "192.168.0.1",
  "region_name": "region_name",
  "region_id": "region_id",
  "project_name": "project_name",
  "project_id": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
  "source_server": {
    "id": "xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001"
  },
  "target_server": {
    "vm_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "Auto-tar-name",
    "disks": [ {
      "name": "/dev/vda",
      "disk_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "size": 42949672960,
      "used_size": 429496,
      "device_use": "BOOT",
      "physical_volumes": [ {
        "uuid": null,
```

```
"index" : 0,  
"name" : "/dev/vda1",  
"device_use" : "OS",  
"file_system" : "ext4",  
"mount_point" : "/",  
"size" : 42947575808,  
"used_size" : 5346484224  
  }]  
}],  
"volume_groups" : [  
],  
"is_need_consistency_result" : true  
}
```

## 响应示例

**状态码： 200**

创建迁移任务成功

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

**状态码： 403**

鉴权失败

```
{  
  "error_code" : "SMS.9004",  
  "error_msg" : "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",  
  "encoded_authorization_message" : "XXXXXX",  
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],  
  "details" : [ {  
    "error_code" : "SMS.9004",  
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."  
  } ]  
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

创建一个迁移任务，迁移任务名称是MigrationTask，迁移类型是MIGRATE\_FILE文件级迁移，源端操作系统类型是LINUX，使用公网迁移是true，迁移region名称是region\_name，迁移region的ID是region\_id。

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.GlobalCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;  
import com.huaweicloud.sdk.sms.v3.*;  
import com.huaweicloud.sdk.sms.v3.model.*;  
  
import java.util.List;  
import java.util.ArrayList;  
  
public class CreateTaskSolution {
```

```
public static void main(String[] args) {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    // environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running
    // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    String ak = System.getenv("CLOUD_SDK_AK");
    String sk = System.getenv("CLOUD_SDK_SK");

    ICredential auth = new GlobalCredentials()
        .withAk(ak)
        .withSk(sk);

    SmsClient client = SmsClient.newBuilder()
        .withCredential(auth)
        .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
        .build();
    CreateTaskRequest request = new CreateTaskRequest();
    PostTask body = new PostTask();
    List<PhysicalVolumes> listDisksPhysicalVolumes = new ArrayList<>();
    listDisksPhysicalVolumes.add(
        new PhysicalVolumes()
            .withDeviceUse("OS")
            .withFileSystem("ext4")
            .withIndex(0)
            .withMountPoint("/")
            .withName("/dev/vda1")
            .withSize(42947575808L)
            .withUsedSize(5346484224L)
    );
    List<TargetDisks> listTargetServerDisks = new ArrayList<>();
    listTargetServerDisks.add(
        new TargetDisks()
            .withDeviceUse(TargetDisks.DeviceUseEnum.fromValue("BOOT"))
            .withDiskId("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withName("/dev/vda")
            .withPhysicalVolumes(listDisksPhysicalVolumes)
            .withSize(42949672960L)
            .withUsedSize(429496L)
    );
    TargetServerByTask targetServerbody = new TargetServerByTask();
    targetServerbody.withDisks(listTargetServerDisks)
        .withName("Auto-tar-name")
        .withVmId("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001");
    SourceServerByTask sourceServerbody = new SourceServerByTask();
    sourceServerbody.withId("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001");
    body.withUsePublicIp(true);
    body.withProjectId("xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx00000001");
    body.withProjectName("project_name");
    body.withRegionId("region_id");
    body.withRegionName("region_name");
    body.withMigrationIp("192.168.0.1");
    body.withTargetServer(targetServerbody);
    body.withSourceServer(sourceServerbody);
    body.withOsType("LINUX");
    body.withStartTargetServer(true);
    body.withType(PostTask.TypeEnum.fromValue("MIGRATE_FILE"));
    body.withName("MigrationTask");
    request.withBody(body);
    try {
        CreateTaskResponse response = client.createTask(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
    }
}
```

```
        System.out.println(e.getStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

## Python

创建一个迁移任务，迁移任务名称是MigrationTask，迁移类型是MIGRATE\_FILE文件级迁移，源端操作系统类型是LINUX，使用公网迁移是true，迁移region名称是region\_name，迁移region的ID是region\_id。

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateTaskRequest()
        listPhysicalVolumesDisks = [
            PhysicalVolumes(
                device_use="OS",
                file_system="ext4",
                index=0,
                mount_point="/",
                name="/dev/vda1",
                size=42947575808,
                used_size=5346484224
            )
        ]
        listDisksTargetServer = [
            TargetDisks(
                device_use="BOOT",
                disk_id="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
                name="/dev/vda",
                physical_volumes=listPhysicalVolumesDisks,
                size=42949672960,
                used_size=429496
            )
        ]
        targetServerbody = TargetServerByTask(
            disks=listDisksTargetServer,
            name="Auto-tar-name",
            vm_id="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001"
        )
        sourceServerbody = SourceServerByTask(
            id="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001"
```

```

)
request.body = PostTask(
    use_public_ip=True,
    project_id="xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    project_name="project_name",
    region_id="region_id",
    region_name="region_name",
    migration_ip="192.168.0.1",
    target_server=targetServerbody,
    source_server=sourceServerbody,
    os_type="LINUX",
    start_target_server=True,
    type="MIGRATE_FILE",
    name="MigrationTask"
)
response = client.create_task(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)

```

## Go

创建一个迁移任务，迁移任务名称是MigrationTask，迁移类型是MIGRATE\_FILE文件级迁移，源端操作系统类型是LINUX，使用公网迁移是true，迁移region名称是region\_name，迁移region的ID是region\_id。

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateTaskRequest{
        deviceUsePhysicalVolumes:= "OS"
        fileSystemPhysicalVolumes:= "ext4"
        indexPhysicalVolumes:= int32(0)
        mountPointPhysicalVolumes:= "/"
        namePhysicalVolumes:= "/dev/vda1"
        sizePhysicalVolumes:= int64(42947575808)
        usedSizePhysicalVolumes:= int64(5346484224)
        var listPhysicalVolumesDisks = []model.PhysicalVolumes{

```

```

    {
        DeviceUse: &deviceUsePhysicalVolumes,
        FileSystem: &fileSystemPhysicalVolumes,
        Index: &indexPhysicalVolumes,
        MountPoint: &mountPointPhysicalVolumes,
        Name: &namePhysicalVolumes,
        Size: &sizePhysicalVolumes,
        UsedSize: &usedSizePhysicalVolumes,
    },
}
deviceUseDisks:= model.GetTargetDisksDeviceUseEnum().BOOT
diskIdDisks:= "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001"
var listDisksTargetServer = []model.TargetDisks{
    {
        DeviceUse: &deviceUseDisks,
        DiskId: &diskIdDisks,
        Name: "/dev/vda",
        PhysicalVolumes: listPhysicalVolumesDisks,
        Size: int64(42949672960),
        UsedSize: int64(429496),
    },
}
targetServerbody := &model.TargetServerByTask{
    Disks: listDisksTargetServer,
    Name: "Auto-tar-name",
    VmId: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
}
sourceServerbody := &model.SourceServerByTask{
    Id: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
}
usePublicIpPostTask:= true
migrationIpPostTask:= "192.168.0.1"
startTargetServerPostTask:= true
request.Body = &model.PostTask{
    UsePublicIp: &usePublicIpPostTask,
    ProjectId: "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    ProjectName: "project_name",
    RegionId: "region_id",
    RegionName: "region_name",
    MigrationIp: &migrationIpPostTask,
    TargetServer: targetServerbody,
    SourceServer: sourceServerbody,
    OsType: "LINUX",
    StartTargetServer: &startTargetServerPostTask,
    Type: model.GetPostTaskTypeEnum().MIGRATE_FILE,
    Name: "MigrationTask",
}
response, err := client.CreateTask(request)
if err == nil {
    fmt.Printf("%v\n", response)
} else {
    fmt.Println(err)
}
}

```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	创建迁移任务成功



状态码	描述
403	鉴权失败

## 错误码

请参见[错误码](#)。

## 5.4.2 查询迁移任务列表

### 功能介绍

在设置目的端后，主机迁移服务会自动创建迁移任务，使用该接口可以查询迁移任务列表。

### 调用方法

请参见[如何调用API](#)。

### URI

GET /v3/tasks

表 5-121 Query 参数

参数	是否必选	参数类型	描述
state	否	String	迁移任务状态 READY:准备就绪 RUNNING:迁移中 SYNCING:同步中 MIGRATE_SUCCESS:迁移成功 MIGRATE_FAIL:迁移失败 ABORTING:中止中 ABORT:中止 DELETING::删除中 SYNC_F_ROLLBACKING:同步失败回滚中 SYNC_F_ROLLBACK_SUCCESS: 同步失败回滚成功 枚举值: <ul style="list-style-type: none"> <li>• READY</li> <li>• RUNNING</li> <li>• SYNCING</li> <li>• MIGRATE_SUCCESS</li> <li>• MIGRATE_FAIL</li> <li>• ABORTING</li> <li>• ABORT</li> <li>• DELETING</li> <li>• SYNC_F_ROLLBACKING</li> <li>• SYNC_F_ROLLBACK_SUCCESS</li> </ul>
name	否	String	任务的名称 最小长度: 0 最大长度: 255
id	否	String	任务的ID 最小长度: 0 最大长度: 255
source_server_id	否	String	源端服务器的ID 最小长度: 0 最大长度: 255

参数	是否必选	参数类型	描述
limit	否	Integer	每一页记录的任务数量 最小值：0 最大值：200 缺省值：100
offset	否	Integer	偏移量 最小值：0 最大值：65535 缺省值：0
enterprise_project_id	否	String	需要查询的企业项目ID 最小长度：0 最大长度：255

## 请求参数

表 5-122 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

## 响应参数

状态码：200

表 5-123 响应 Body 参数

参数	参数类型	描述
count	Integer	符合要求的任务数量，不受分页影响 最小值：0 最大值：2147483647
tasks	Array of <b>TasksResponseBody</b> objects	查询到的任务列表 数组长度：0 - 65535

表 5-124 TasksResponseBody

参数	参数类型	描述
id	String	迁移任务ID 最小长度：0 最大长度：255
name	String	任务名称（用户自定义） 最小长度：0 最大长度：255
type	String	任务类型，创建时必须选，更新时可选 MIGRATE_FILE:文件级迁移 MIGRATE_BLOCK:块级迁移 最小长度：0 最大长度：255 枚举值： <ul style="list-style-type: none"> <li>• MIGRATE_FILE</li> <li>• MIGRATE_BLOCK</li> </ul>
os_type	String	操作系统类型，分为WINDOWS和LINUX，创建时必须选，更新时可选 最小长度：0 最大长度：255 枚举值： <ul style="list-style-type: none"> <li>• WINDOWS</li> <li>• LINUX</li> </ul>
state	String	任务状态 最小长度：0 最大长度：255
estimate_complete_time	Long	预估完成时间 最小值：0 最大值：9223372036854775807
create_date	Long	任务创建时间 最小值：0 最大值：9223372036854775807

参数	参数类型	描述
priority	Integer	进程优先级 0: 低 1: 标准 2: 高 最小值: 0 最大值: 2 枚举值: • 0 • 1 • 2
speed_limit	Integer	迁移限速 最小值: 0 最大值: 65535
migrate_speed	Double	迁移速率, 单位: MB/S 最小值: 0 最大值: 10000
compress_rate	Double	压缩率 最小值: 0 最大值: 10000
start_target_server	Boolean	迁移完成后是否启动目的端服务器 true: 启动 false: 停止 缺省值: false
error_json	String	错误信息 最小长度: 0 最大长度: 1024
total_time	Long	任务总耗时 最小值: 0 最大值: 9223372036854775807
migration_ip	String	目的端服务器的IP地址。 公网迁移时请填写弹性IP地址 专线迁移时请填写私有IP地址 最小长度: 0 最大长度: 255

参数	参数类型	描述
sub_tasks	Array of <a href="#">SubTaskAssociatedWithTask</a> objects	任务关联的子任务信息 数组长度: <b>0 - 65535</b>
source_server	<a href="#">SourceServerAssociatedWithTask</a> object	任务关联的源端信息
enterprise_project_id	String	迁移项目ID 最小长度: <b>0</b> 最大长度: <b>255</b>
target_server	<a href="#">TargetServerAssociatedWithTask</a> object	任务关联的目的端信息
log_collect_status	String	日志收集状态 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 枚举值: <ul style="list-style-type: none"> <li>• INIT</li> <li>• TELL_AGENT_TO_COLLECT</li> <li>• WAIT_AGENT_COLLECT_ACK</li> <li>• AGENT_COLLECT_FAIL</li> <li>• AGENT_COLLECT_SUCCESS</li> <li>• WAIT_SERVER_COLLECT</li> <li>• SERVER_COLLECT_FAIL</li> <li>• SERVER_COLLECT_SUCCESS</li> <li>• TELL_AGENT_RESET_ACL</li> <li>• WAIT_AGENT_RESET_ACL_ACK</li> </ul>
clone_server	<a href="#">CloneServerBrief</a> object	克隆服务器基本信息
syncing	Boolean	是否同步

参数	参数类型	描述
network_check_info	<b>NetworkCheckInfoRequestBody</b> object	网络检测相关信息
special_config	Array of <b>ConfigBody</b> objects	特殊配置项配置信息 数组长度: <b>0 - 1000</b>
total_cpu_usage	Double	主机的CPU使用率, 单位是百分比 最小值: <b>0</b> 最大值: <b>100</b>
agent_cpu_usage	Double	Agent的CPU使用率, 单位是百分比 最小值: <b>0</b> 最大值: <b>100</b>
total_mem_usage	Double	主机的内存使用值, 单位是MB 最小值: <b>0</b> 最大值: <b>1048576.0</b>
agent_mem_usage	Double	Agent的内存使用值, 单位是MB 最小值: <b>0</b> 最大值: <b>1048576.0</b>
total_disk_io	Double	主机的磁盘I/O值, 单位是MB/s 最小值: <b>0</b> 最大值: <b>10000.0</b>
agent_disk_io	Double	Agent的磁盘I/O值, 单位是MB/s 最小值: <b>0</b> 最大值: <b>10000.0</b>

表 5-125 SubTaskAssociatedWithTask

参数	参数类型	描述
id	Long	子任务ID 最小值: <b>0</b> 最大值: <b>9223372036854775807</b>
name	String	子任务名称 最小长度: <b>0</b> 最大长度: <b>255</b>

参数	参数类型	描述
progress	Integer	子任务的进度，取值为0-100之间的整数 最小值： <b>0</b> 最大值： <b>100</b>
start_date	Long	子任务开始时间 最小值： <b>0</b> 最大值： <b>9223372036854775807</b>
end_date	Long	子任务结束时间（如果子任务还没有结束，则为空） 最小值： <b>0</b> 最大值： <b>9223372036854775807</b>
process_trace	String	迁移或同步时，具体的迁移详情 最小长度： <b>0</b> 最大长度： <b>2048</b>

表 5-126 SourceServerAssociatedWithTask

参数	参数类型	描述
id	String	源端在SMS数据库中的ID 最小长度： <b>0</b> 最大长度： <b>255</b>
ip	String	源端服务器ip，注册源端时必选，更新非必选 最小长度： <b>0</b> 最大长度： <b>255</b>
name	String	用来区分不同源端服务器的名称 最小长度： <b>0</b> 最大长度： <b>255</b>
os_type	String	源端服务器的OS类型，分为Windows和Linux，注册必选，更新非必选 最小长度： <b>0</b> 最大长度： <b>255</b> 枚举值： <ul style="list-style-type: none"> <li>• <b>WINDOWS</b></li> <li>• <b>LINUX</b></li> </ul>



参数	参数类型	描述
os_version	String	操作系统版本，注册必选，更新非必选 最小长度：0 最大长度：255
oem_system	Boolean	是否是OEM操作系统(Windows)
state	String	当前源端服务器状态 unavailable：环境校验不通过 waiting：等待 initialize：初始化 replicate：复制 syncing：持续同步 stopping：暂停中 stopped：已暂停 deleting：删除中 error：错误 cloning：等待克隆完成 testing：测试中 finished：启动目的端完成 枚举值： <ul style="list-style-type: none"> <li>• unavailable</li> <li>• waiting</li> <li>• initialize</li> <li>• replicate</li> <li>• syncing</li> <li>• stopping</li> <li>• stopped</li> <li>• deleting</li> <li>• error</li> <li>• cloning</li> <li>• testing</li> <li>• finished</li> </ul>

表 5-127 TargetServerAssociatedWithTask

参数	参数类型	描述
id	String	目的端在SMS数据库中的ID 最小长度：0 最大长度：255

参数	参数类型	描述
vm_id	String	目的端虚拟机ID 最小长度：0 最大长度：255
name	String	目的端服务器名称 最小长度：0 最大长度：255
ip	String	目的端服务器IP 最小长度：0 最大长度：255
os_type	String	目的端服务器的OS类型 WINDOWS:WINDOWS系统 LINUX:LINUX系统 最小长度：0 最大长度：255 枚举值： <ul style="list-style-type: none"> <li>• WINDOWS</li> <li>• LINUX</li> </ul>
os_version	String	操作系统版本 最小长度：0 最大长度：255

表 5-128 CloneServerBrief

参数	参数类型	描述
vm_id	String	克隆服务器ID 最小长度：0 最大长度：255
name	String	克隆虚拟机的名称 最小长度：0 最大长度：255

表 5-129 NetworkCheckInfoRequestBody

参数	参数类型	描述
domain_connectivity	Boolean	域名连通性

参数	参数类型	描述
destination_connectivity	Boolean	目的端连通性
network_delay	Double	网络时延 最小值: 0 最大值: 10000.0
network_jitter	Double	网络抖动 最小值: 0 最大值: 10000
migration_speed	Double	带宽 最小值: 0 最大值: 10000
loss_percentage	Double	丢包 最小值: 0 最大值: 100
cpu_usage	Double	CPU占用 最小值: 0 最大值: 100
mem_usage	Double	内存占用 最小值: 0 最大值: 100
evaluation_result	String	评估结果 最小长度: 6 最大长度: 8

表 5-130 ConfigBody

参数	参数类型	描述
config_key	String	配置类型, 分为: "EXCLUDE_MIGRATE_PATH", "SYNC_EXCLUDE_PATH", "ONLY_SYNC_PATH"等 最小长度: 0 最大长度: 255
config_value	String	具体配置参数字段, 保存于数据库, 最终在agent端进行解析 最小长度: 0 最大长度: 1024

参数	参数类型	描述
config_status	String	描述配置状态的保留字段 最小长度: 0 最大长度: 255

状态码: 403

表 5-131 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度: 0 最大长度: 255
error_msg	String	错误信息 最小长度: 0 最大长度: 255
encoded_authorized_message	String	加密授权信息 最小长度: 0 最大长度: 65535
error_param	Array of strings	错误参数 最小长度: 0 最大长度: 65535 数组长度: 1 - 20
details	Array of <a href="#">details</a> objects	详细错误信息 数组长度: 1 - 20

表 5-132 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度: 0 最大长度: 65535
error_msg	String	SMS错误信息 最小长度: 0 最大长度: 65535

## 请求示例

### 查询迁移任务列表

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

## 响应示例

状态码: 200

### 查询迁移任务列表成功

```
{
  "count": 3,
  "tasks": [ {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "sms_task_lxxxx11",
    "type": "MIGRATE_FILE",
    "os_type": "LINUX",
    "state": "MIGRATE_SUCCESS",
    "estimate_complete_time": null,
    "create_date": 1585139506000,
    "priority": 1,
    "speed_limit": 0,
    "migrate_speed": 0.0,
    "start_target_server": true,
    "error_json": "",
    "total_time": 3878000,
    "migration_ip": "",
    "source_server": {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "ip": "192.168.*.107",
      "name": "xxx-linux-1",
      "os_type": "LINUX",
      "os_version": "CENTOS_7_6_64BIT",
      "oem_system": false,
      "state": "AVAILABLE"
    },
    "target_server": {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "vm_id": "",
      "name": "",
      "ip": null,
      "os_type": "LINUX",
      "os_version": null
    },
    "log_collect_status": "INIT"
  }, {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "sms_task_xxx22",
    "type": "MIGRATE_BLOCK",
    "os_type": "WINDOWS",
    "state": "MIGRATE_SUCCESS",
    "estimate_complete_time": null,
    "create_date": 1585138569000,
    "priority": 1,
    "speed_limit": 0,
    "migrate_speed": 0.0,
    "start_target_server": true,
    "error_json": "",
    "total_time": 10824000,
    "migration_ip": "",
    "source_server": {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "ip": "192.168.*.245",
      "name": "xxx-windows-2",
      "os_type": "WINDOWS",
      "os_version": "WINDOWS2012_R2_64BIT",
```

```

"oem_system" : false,
"state" : "AVAILABLE"
},
"target_server" : {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "vm_id" : "",
  "name" : "",
  "ip" : null,
  "os_type" : "WINDOWS",
  "os_version" : "WINDOWS2012_R2_64BIT"
},
"log_collect_status" : "INIT"
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name" : "sms_task_leddesktop",
  "type" : "MIGRATE_BLOCK",
  "os_type" : "WINDOWS",
  "state" : "MIGRATE_SUCCESS",
  "estimate_complete_time" : null,
  "create_date" : 1566130392000,
  "priority" : 1,
  "speed_limit" : 200,
  "migrate_speed" : 0.0,
  "start_target_server" : true,
  "error_json" : "",
  "total_time" : 882000,
  "migration_ip" : "192.168.1.201",
  "source_server" : null,
  "target_server" : {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "vm_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "xxx-sms-target",
    "ip" : null,
    "os_type" : "WINDOWS",
    "os_version" : "WINDOWS2008_R2_64BIT"
  },
  "log_collect_status" : "INIT"
}
}

```

**状态码： 403**

鉴权失败

```

{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}

```

## SDK 代码示例

SDK代码示例如下。

### Java

```

package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;

```

```
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ListTasksSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        ListTasksRequest request = new ListTasksRequest();
        try {
            ListTasksResponse response = client.listTasks(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()
```

```
try:
    request = ListTasksRequest()
    response = client.list_tasks(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListTasksRequest{}
    response, err := client.ListTasks(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	查询迁移任务列表成功
403	鉴权失败



## 错误码

请参见[错误码](#)。

## 5.4.3 批量删除迁移任务

### 功能介绍

批量删除迁移任务。

### 接口约束

只有当Agent与主机迁移服务服务端断开连接，或者源端状态为源端校验失败、就绪中、迁移完成、错误、已暂停可以删除

### 调用方法

请参见[如何调用API](#)。

### URI

POST /v3/tasks/delete

### 请求参数

表 5-133 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	用户Token。 通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度： <b>1</b> 最大长度： <b>16384</b>

表 5-134 请求 Body 参数

参数	是否必选	参数类型	描述
ids	是	Array of strings	待删除的任务ID列表 最小长度： <b>0</b> 最大长度： <b>255</b> 数组长度： <b>0 - 65535</b>

### 响应参数

状态码：**200**

表 5-135 响应 Body 参数

参数	参数类型	描述
-	String	批量删除迁移任务成功

状态码： 403

表 5-136 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度： 0 最大长度： 255
error_msg	String	错误信息 最小长度： 0 最大长度： 255
encoded_authorization_message	String	加密授权信息 最小长度： 0 最大长度： 65535
error_param	Array of strings	错误参数 最小长度： 0 最大长度： 65535 数组长度： 1 - 20
details	Array of <a href="#">details</a> objects	详细错误信息 数组长度： 1 - 20

表 5-137 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度： 0 最大长度： 65535
error_msg	String	SMS错误信息 最小长度： 0 最大长度： 65535

## 请求示例

批量删除迁移任务，待删除迁移任务的ID集合为[ "1", "2", "3" ]

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

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

## 响应示例

**状态码： 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

批量删除迁移任务，待删除迁移任务的ID集合为[ "1", "2", "3" ]

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class DeleteTasksSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
```

```

        .withCredential(auth)
        .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
        .build();
DeleteTasksRequest request = new DeleteTasksRequest();
DeleteTasksReq body = new DeleteTasksReq();
List<String> listbodyIds = new ArrayList<>();
listbodyIds.add("1");
listbodyIds.add("2");
listbodyIds.add("3");
body.withIds(listbodyIds);
request.withBody(body);
try {
    DeleteTasksResponse response = client.deleteTasks(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
}

```

## Python

批量删除迁移任务，待删除迁移任务的ID集合为[ "1", "2","3" ]

```

# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeleteTasksRequest()
        listidsbody = [
            "1",
            "2",
            "3"
        ]
        request.body = DeleteTasksReq(
            ids=listidsbody
        )
        response = client.delete_tasks(request)
        print(response)
    except exceptions.ClientRequestException as e:

```

```
print(e.status_code)
print(e.request_id)
print(e.error_code)
print(e.error_msg)
```

## Go

批量删除迁移任务，待删除迁移任务的ID集合为[ "1", "2", "3" ]

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteTasksRequest{}
    var listIdsbody = []string{
        "1",
        "2",
        "3",
    }
    request.Body = &model.DeleteTasksReq{
        Ids: listIdsbody,
    }
    response, err := client.DeleteTasks(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	批量删除迁移任务成功
403	鉴权失败

## 错误码

请参见[错误码](#)。

## 5.4.4 删除指定 ID 的迁移任务

### 功能介绍

删除指定ID的迁移任务。

### 接口约束

只有当Agent与主机迁移服务服务端断开连接，或者源端状态为源端校验失败、就绪中、迁移完成、错误、已暂停可以删除

### 调用方法

请参见[如何调用API](#)。

### URI

DELETE /v3/tasks/{task\_id}

表 5-138 路径参数

参数	是否必选	参数类型	描述
task_id	是	String	要删除的迁移任务ID 最小长度：0 最大长度：255

## 请求参数

表 5-139 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

## 响应参数

状态码：200

表 5-140 响应 Body 参数

参数	参数类型	描述
-	String	删除指定ID的迁移任务成功

状态码：403

表 5-141 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度：0 最大长度：255
error_msg	String	错误信息 最小长度：0 最大长度：255
encoded_authorization_message	String	加密授权信息 最小长度：0 最大长度：65535
error_param	Array of strings	错误参数 最小长度：0 最大长度：65535 数组长度：1 - 20

参数	参数类型	描述
details	Array of <b>details</b> objects	详细错误信息 数组长度: 1 - 20

表 5-142 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度: 0 最大长度: 65535
error_msg	String	SMS错误信息 最小长度: 0 最大长度: 65535

## 请求示例

删除ID为7a9a9540-ff28-4869-b9e4-855fbe12xxxx的迁移任务。

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

## 响应示例

**状态码: 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
```



```
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class DeleteTaskSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteTaskRequest request = new DeleteTaskRequest();
        request.withTaskId("{task_id}");
        try {
            DeleteTaskResponse response = client.deleteTask(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()
```

```
try:
    request = DeleteTaskRequest()
    request.task_id = "{task_id}"
    response = client.delete_task(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteTaskRequest{}
    request.TaskId = "{task_id}"
    response, err := client.DeleteTask(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	删除指定ID的迁移任务成功
403	鉴权失败

## 错误码

请参见[错误码](#)。

## 5.4.5 查询指定 ID 的迁移任务

### 功能介绍

查询指定ID的迁移任务。

### 调用方法

请参见[如何调用API](#)。

### URI

GET /v3/tasks/{task\_id}

表 5-143 路径参数

参数	是否必选	参数类型	描述
task_id	是	String	迁移任务ID 最小长度：0 最大长度：255

### 请求参数

表 5-144 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	否	String	用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

### 响应参数

状态码：200

表 5-145 响应 Body 参数

参数	参数类型	描述
name	String	任务名称（用户自定义） 最小长度：0 最大长度：255
type	String	任务类型，创建时必须选，更新时可选 MIGRATE_FILE:文件级迁移 MIGRATE_BLOCK:块级迁移 最小长度：0 最大长度：255 枚举值： <ul style="list-style-type: none"> <li>• MIGRATE_FILE</li> <li>• MIGRATE_BLOCK</li> </ul>
os_type	String	操作系统类型，分为WINDOWS和LINUX，创建时必须选，更新时可选 枚举值： <ul style="list-style-type: none"> <li>• WINDOWS</li> <li>• LINUX</li> </ul>
id	String	迁移任务ID 最小长度：0 最大长度：255
priority	Integer	进程优先级 0: 低 1: 标准（默认） 2: 高 最小值：0 最大值：2 枚举值： <ul style="list-style-type: none"> <li>• 0</li> <li>• 1</li> <li>• 2</li> </ul>
speed_limit	Integer	迁移限速 最小值：0 最大值：65535
region_id	String	目的端服务器的区域ID 最小长度：0 最大长度：255

参数	参数类型	描述
start_target_server	Boolean	迁移完成后是否启动目的端服务器 true: 启动 false: 停止 缺省值: <b>true</b>
enterprise_project_id	String	企业项目ID 最小长度: <b>1</b> 最大长度: <b>255</b>
migration_ip	String	目的端服务器的IP地址。 公网迁移时请填写弹性IP地址 专线迁移时请填写私有IP地址 最小长度: <b>0</b> 最大长度: <b>255</b>
region_name	String	目的端服务器的区域名称 最小长度: <b>0</b> 最大长度: <b>255</b>
project_name	String	目的端服务器所在项目名称 最小长度: <b>0</b> 最大长度: <b>255</b>
project_id	String	目的端服务器所在项目ID 最小长度: <b>0</b> 最大长度: <b>255</b>
vm_template_id	String	模板ID 最小长度: <b>0</b> 最大长度: <b>255</b>
source_server	<b>SourceServerResponse</b> object	返回源端服务器信息
target_server	<b>TaskTargetServer</b> object	目的端服务器
state	String	任务状态 最小长度: <b>0</b> 最大长度: <b>255</b>
estimate_complete_time	Long	预估完成时间 最小值: <b>0</b> 最大值: <b>9223372036854775807</b>
connected	Boolean	连接状态

参数	参数类型	描述
create_date	Long	任务创建时间 最小值: 0 最大值: 9223372036854775807
start_date	Long	任务开始时间 最小值: 0 最大值: 9223372036854775807
finish_date	Long	任务结束时间 最小值: 0 最大值: 9223372036854775807
migrate_speed	Double	迁移速率, 单位: MB/S 最小值: 0 最大值: 10000
compress_rate	Double	压缩率 最小值: 0 最大值: 10000
error_json	String	错误信息 最小长度: 0 最大长度: 1024
total_time	Long	任务总耗时 最小值: 0 最大值: 9223372036854775807
float_ip	String	暂时保留float,兼容现网老版本的SMS-Agent 最小长度: 0 最大长度: 255
remain_seconds	Long	迁移剩余时间 (秒) 最小值: 0 最大值: 9223372036854775807
target_snapshot_id	String	目的端的快照ID 最小长度: 0 最大长度: 255
clone_server	<a href="#">CloneServer</a> object	克隆服务器类
sub_tasks	Array of <a href="#">SubTask</a> objects	任务包含的子任务列表 数组长度: 0 - 65535

参数	参数类型	描述
network_check_info	<b>NetworkCheckInfoRequestBody</b> object	网络检测相关信息
total_cpu_usage	Double	主机的CPU使用率，单位是百分比 最小值： <b>0</b> 最大值： <b>100</b>
agent_cpu_usage	Double	Agent的CPU使用率，单位是百分比 最小值： <b>0</b> 最大值： <b>100</b>
total_mem_usage	Double	主机的内存使用值，单位是MB 最小值： <b>0</b> 最大值： <b>1048576.0</b>
agent_mem_usage	Double	Agent的内存使用值，单位是MB 最小值： <b>0</b> 最大值： <b>1048576.0</b>
total_disk_io	Double	主机的磁盘I/O值，单位是MB/s 最小值： <b>0</b> 最大值： <b>10000.0</b>
agent_disk_io	Double	Agent的磁盘I/O值，单位是MB/s 最小值： <b>0</b> 最大值： <b>10000.0</b>

表 5-146 SourceServerResponse

参数	参数类型	描述
id	String	源端在SMS数据库中的ID 最小长度： <b>0</b> 最大长度： <b>255</b>
ip	String	源端服务器ip，注册源端时必选，更新非必选 最小长度： <b>0</b> 最大长度： <b>255</b>
name	String	用来区分不同源端服务器的名称 最小长度： <b>0</b> 最大长度： <b>255</b>

参数	参数类型	描述
os_type	String	源端服务器的OS类型，分为Windows和Linux，注册必选，更新非必选 最小长度：0 最大长度：255 枚举值： <ul style="list-style-type: none"> <li>• WINDOWS</li> <li>• LINUX</li> </ul>
os_version	String	操作系统版本，注册必选，更新非必选 最小长度：0 最大长度：255
oem_system	Boolean	是否是OEM操作系统(Windows)
state	String	当前源端服务器状态 unavailable：环境校验不通过 waiting：等待 initialize：初始化 replicate：复制 syncing：持续同步 stopping：暂停中 stopped：已暂停 deleting：删除中 error：错误 cloning：等待克隆完成 testing：测试中 finished：启动目的端完成 枚举值： <ul style="list-style-type: none"> <li>• unavailable</li> <li>• waiting</li> <li>• initialize</li> <li>• replicate</li> <li>• syncing</li> <li>• stopping</li> <li>• stopped</li> <li>• deleting</li> <li>• error</li> <li>• cloning</li> <li>• testing</li> <li>• finished</li> </ul>



参数	参数类型	描述
migration_cycle	String	迁移周期 cutovering:启动目的端中 cutovered:启动目的端完成 checking:检查中 setting:设置中 replicating:复制中 syncing:同步中 最小长度: 0 最大长度: 255 枚举值: <ul style="list-style-type: none"> <li>• cutovering</li> <li>• cutovered</li> <li>• checking</li> <li>• setting</li> <li>• replicating</li> <li>• syncing</li> </ul>

表 5-147 TaskTargetServer

参数	参数类型	描述
id	String	目的端在SMS数据库中的ID 最小长度: 0 最大长度: 255
vm_id	String	目的端服务器ID, 自动创建虚拟机不需要这个参数 最小长度: 0 最大长度: 255
name	String	目的端服务器的名称 最小长度: 0 最大长度: 255
ip	String	目的端服务器IP 最小长度: 0 最大长度: 255

参数	参数类型	描述
os_type	String	源端服务器的OS类型，分为Windows和Linux，注册必选，更新非必选 最小长度：0 最大长度：255 枚举值： <ul style="list-style-type: none"> <li>• WINDOWS</li> <li>• LINUX</li> </ul>
os_version	String	操作系统版本，注册必选，更新非必选 最小长度：0 最大长度：255
system_dir	String	Windows必选，系统目录 最小长度：0 最大长度：255
disks	Array of <b>TargetDisk</b> objects	目的端磁盘信息，一般和源端保持一致 数组长度：0 - 65535
volume_groups	Array of <b>VolumeGroups</b> objects	lvm信息，一般和源端保持一致 数组长度：0 - 65535
btrfs_list	Array of strings	Linux 必选，源端的Btrfs信息。如果源端不存在Btrfs，则为[] 最小长度：0 最大长度：255 数组长度：0 - 65535
image_disk_id	String	目的端代理镜像磁盘ID 最小长度：0 最大长度：255
cutovered_snapshot_ids	String	目的端回滚快照ID 最小长度：0 最大长度：255

表 5-148 TargetDisk

参数	参数类型	描述
id	Long	磁盘标识ID 最小值：0 最大值：9223372036854775807

参数	参数类型	描述
device_use	String	判断是普通分区，启动分区还是系统分区 BOOT: BOOT设备 OS: 系统设备 NORMAL:平常 缺省值: <b>NORMAL</b> 枚举值: <ul style="list-style-type: none"> <li>• <b>NORMAL</b></li> <li>• <b>OS</b></li> <li>• <b>BOOT</b></li> </ul>
disk_id	String	磁盘ID 最小长度: <b>0</b> 最大长度: <b>255</b>
name	String	磁盘名称 最小长度: <b>0</b> 最大长度: <b>255</b>
physical_volumes	Array of <a href="#">TargetPhysicalVolumes</a> objects	逻辑卷信息 数组长度: <b>0 - 65535</b>
size	Long	大小 最小值: <b>0</b> 最大值: <b>9223372036854775807</b>
used_size	Long	已使用大小 最小值: <b>0</b> 最大值: <b>9223372036854775807</b>
disk_index	String	磁盘索引 最小长度: <b>0</b> 最大长度: <b>255</b>
os_disk	Boolean	是否为系统盘
partition_style	String	磁盘的分区类型，添加源端时源端磁盘必选 MBR: mbr格式 GPT: gpt格式 枚举值: <ul style="list-style-type: none"> <li>• <b>MBR</b></li> <li>• <b>GPT</b></li> </ul>

参数	参数类型	描述
relation_name	String	Linux系统 目的端ECS中与源端关联的磁盘名称 最小长度: 0 最大长度: 255

表 5-149 TargetPhysicalVolumes

参数	参数类型	描述
id	Long	逻辑卷ID 最小值: 0 最大值: 9223372036854775807
device_use	String	分区类型 NORMAL:平常 OS: 系统设备 BOOT: BOOT设备 缺省值: <b>NORMAL</b> 枚举值: <ul style="list-style-type: none"> <li>• <b>NORMAL</b></li> <li>• <b>OS</b></li> <li>• <b>BOOT</b></li> </ul>
file_system	String	文件系统 最小长度: 0 最大长度: 255
index	Integer	编号 最小值: 0 最大值: 2147483647
mount_point	String	挂载点 最小长度: 0 最大长度: 255
name	String	名称 最小长度: 0 最大长度: 255
size	Long	大小 最小值: 0 最大值: 9223372036854775807

参数	参数类型	描述
used_size	Long	使用大小 最小值: 0 最大值: 9223372036854775807
uuid	String	uuid 最小长度: 0 最大长度: 255
relation_name	String	Linux系统 目的端ECS中与源端关联的磁盘名称 最小长度: 0 最大长度: 255
free_size	Long	分区空闲大小 最小值: 0 最大值: 9223372036854775807

表 5-150 VolumeGroups

参数	参数类型	描述
components	String	Pv信息 最小长度: 0 最大长度: 255
free_size	Long	剩余空间 最小值: 0 最大值: 9223372036854775807
logical_volumes	Array of <a href="#">LogicalVolumes</a> objects	lv信息 数组长度: 0 - 255
name	String	名称 最小长度: 0 最大长度: 255
size	Long	大小 最小值: 0 最大值: 9223372036854775807

表 5-151 LogicalVolumes

参数	参数类型	描述
block_count	Integer	块数量 最小值: 0 最大值: 2147483647 缺省值: 0
block_size	Long	块大小 最小值: 0 最大值: 1048576 缺省值: 0
file_system	String	文件系统 最小长度: 0 最大长度: 255
inode_size	Integer	inode数量 最小值: 0 最大值: 2147483647
inode_nums	Long	inode节点数量 最小值: 0 最大值: 9223372036854775807
device_use	String	分区类型, 普通分区, 启动分区, 系统分区 最小长度: 0 最大长度: 255
mount_point	String	挂载点 最小长度: 0 最大长度: 256
name	String	名称 最小长度: 0 最大长度: 1024
size	Long	大小 最小值: 0 最大值: 9223372036854775807
used_size	Long	使用大小 最小值: 0 最大值: 9223372036854775807

参数	参数类型	描述
free_size	Long	剩余空间 最小值: 0 最大值: 9223372036854775807

表 5-152 CloneServer

参数	参数类型	描述
vm_id	String	克隆服务器ID 最小长度: 0 最大长度: 255
name	String	克隆虚拟机的名称 最小长度: 0 最大长度: 255
clone_error	String	克隆错误信息 最小长度: 0 最大长度: 255
clone_state	String	克隆状态 最小长度: 0 最大长度: 255
error_msg	String	克隆错误信息描述 最小长度: 0 最大长度: 1024

表 5-153 SubTask

参数	参数类型	描述
id	Long	子任务ID 最小值: 0 最大值: 9223372036854775807
name	String	子任务名称 最小长度: 0 最大长度: 255
progress	Integer	子任务的进度, 取值为0-100之间的整数 最小值: 0 最大值: 100

参数	参数类型	描述
start_date	Long	子任务开始时间 最小值: <b>0</b> 最大值: <b>9223372036854775807</b>
end_date	Long	子任务结束时间 ( 如果子任务还没有结束, 则为空 ) 最小值: <b>0</b> 最大值: <b>9223372036854775807</b>
migrate_speed	Double	迁移速率, Mbit/s 最小值: <b>0</b> 最大值: <b>10000</b>
user_op	String	触发子任务的用户操作名称 最小长度: <b>0</b> 最大长度: <b>50</b>
process_trace	String	迁移或同步时, 具体的迁移详情 最小长度: <b>0</b> 最大长度: <b>2048</b>

表 5-154 NetworkCheckInfoRequestBody

参数	参数类型	描述
domain_connectivity	Boolean	域名连通性
destination_connectivity	Boolean	目的端连通性
network_delay	Double	网络时延 最小值: <b>0</b> 最大值: <b>10000.0</b>
network_jitter	Double	网络抖动 最小值: <b>0</b> 最大值: <b>10000</b>
migration_speed	Double	带宽 最小值: <b>0</b> 最大值: <b>10000</b>
loss_percentage	Double	丢包 最小值: <b>0</b> 最大值: <b>100</b>



参数	参数类型	描述
cpu_usage	Double	CPU占用 最小值: 0 最大值: 100
mem_usage	Double	内存占用 最小值: 0 最大值: 100
evaluation_result	String	评估结果 最小长度: 6 最大长度: 8

状态码: 403

表 5-155 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度: 0 最大长度: 255
error_msg	String	错误信息 最小长度: 0 最大长度: 255
encoded_authorization_message	String	加密授权信息 最小长度: 0 最大长度: 65535
error_param	Array of strings	错误参数 最小长度: 0 最大长度: 65535 数组长度: 1 - 20
details	Array of <b>details</b> objects	详细错误信息 数组长度: 1 - 20

表 5-156 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度：0 最大长度：65535
error_msg	String	SMS错误信息 最小长度：0 最大长度：65535

## 请求示例

查询指定ID的迁移任务

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

## 响应示例

状态码： 200

查询指定ID的迁移任务成功

```
{
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name": "MigrationTask",
  "type": "MIGRATE_BLOCK",
  "os_type": "WINDOWS",
  "state": "RUNNING",
  "estimate_complete_time": null,
  "create_date": 1598435778000,
  "start_date": 1598435784000,
  "finish_date": null,
  "priority": 1,
  "speed_limit": 0,
  "migrate_speed": 0.0,
  "start_target_server": true,
  "error_json": "",
  "total_time": 115,
  "float_ip": null,
  "migration_ip": null,
  "vm_template_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "region_name": "region name",
  "region_id": "region id",
  "project_name": "project name",
  "project_id": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
  "sub_tasks": [ {
    "id": 7278,
    "name": "CREATE_CLOUD_SERVER",
    "progress": 0,
    "start_date": 1598435802000,
    "end_date": null,
    "user_op": "REPLICATE",
    "process_trace": null
  }, {
    "id": 7279,
    "name": "SSL_CONFIG",
    "progress": 0,
    "start_date": null,
    "end_date": null,
  }
]
```

```

"user_op" : "REPLICATE",
"process_trace" : null
}, {
  "id" : 7280,
  "name" : "ATTACH_AGENT_IMAGE",
  "progress" : 0,
  "start_date" : null,
  "end_date" : null,
  "user_op" : "REPLICATE",
  "process_trace" : null
}, {
  "id" : 7281,
  "name" : "FORMAT_DISK_WINDOWS",
  "progress" : 0,
  "start_date" : null,
  "end_date" : null,
  "user_op" : "REPLICATE",
  "process_trace" : null
}, {
  "id" : 7282,
  "name" : "MIGRATE_WINDOWS_BLOCK",
  "progress" : 0,
  "start_date" : null,
  "end_date" : null,
  "user_op" : "REPLICATE",
  "process_trace" : null
} ],
"source_server" : {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip" : "192.168.0.154",
  "name" : "name-win16",
  "os_type" : "WINDOWS",
  "os_version" : "WINDOWS2016_64BIT",
  "oem_system" : false,
  "state" : "initialize",
  "migration_cycle" : "replicating"
},
"target_server" : {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "vm_id" : "",
  "name" : "",
  "ip" : null,
  "os_type" : "WINDOWS",
  "os_version" : "WINDOWS2016_64BIT",
  "system_dir" : "Y:\\Windows\\System32",
  "disks" : [ {
    "id" : 88008,
    "name" : "Disk 1",
    "relation_name" : null,
    "disk_id" : "0",
    "partition_style" : "MBR",
    "size" : 42949672960,
    "used_size" : 42947575808,
    "device_use" : "OS",
    "os_disk" : true,
    "physical_volumes" : [ {
      "id" : 135055,
      "uuid" : "\\?\\Volume{586b7157-0000-0000-0000-100000000000}\\",
      "index" : 1,
      "name" : "Z:",
      "relation_name" : null,
      "device_use" : "BOOT",
      "file_system" : "NTFS",
      "mount_point" : null,
      "size" : 524288000,
      "used_size" : 410275840,
      "free_size" : 114012160
    }, {
      "id" : 135056,

```

```

"uuid" : "\\?\\Volume{586b7157-0000-0000-0000-501f00000000}\\",
"index" : 2,
"name" : "Y:",
"relation_name" : null,
"device_use" : "OS",
"file_system" : "NTFS",
"mount_point" : null,
"size" : 42423287808,
"used_size" : 23170301952,
"free_size" : 19252985856
}],
"disk_index" : "0"
}],
"volume_groups" : [ ],
"image_disk_id" : null,
"cutovered_snapshot_ids" : null
},
"clone_server" : null
}

```

**状态码： 403**

鉴权失败

```

{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}

```

## SDK 代码示例

SDK代码示例如下。

### Java

```

package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ShowTaskSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);
    }
}

```

```

SmsClient client = SmsClient.newBuilder()
    .withCredential(auth)
    .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
    .build();
ShowTaskRequest request = new ShowTaskRequest();
request.withTaskId("{task_id}");
try {
    ShowTaskResponse response = client.showTask(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
}

```

## Python

```

# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowTaskRequest()
        request.task_id = "{task_id}"
        response = client.show_task(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)

```

## Go

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"

```

```

"github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowTaskRequest{}
    request.TaskId = "{task_id}"
    response, err := client.ShowTask(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}

```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	查询指定ID的迁移任务成功
403	鉴权失败

## 错误码

请参见[错误码](#)。

## 5.4.6 更新指定 ID 的迁移任务

### 功能介绍

更新指定ID的迁移任务

### 调用方法

请参见[如何调用API](#)。

## URI

PUT /v3/tasks/{task\_id}

表 5-157 路径参数

参数	是否必选	参数类型	描述
task_id	是	String	迁移任务ID 最小长度：0 最大长度：255

## 请求参数

表 5-158 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	否	String	用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

表 5-159 请求 Body 参数

参数	是否必选	参数类型	描述
name	否	String	任务名称（用户自定义） 最小长度：0 最大长度：255
type	否	String	任务类型，创建时必选，更新时可选 MIGRATE_FILE:文件级迁移 MIGRATE_BLOCK:块级迁移 最小长度：0 最大长度：255 枚举值： <ul style="list-style-type: none"> <li>● MIGRATE_FILE</li> <li>● MIGRATE_BLOCK</li> </ul>

参数	是否必选	参数类型	描述
os_type	否	String	操作系统类型，分为WINDOWS和Linux，创建时必须选，更新时可选 枚举值： <ul style="list-style-type: none"> <li>• <b>WINDOWS</b></li> <li>• <b>LINUX</b></li> </ul>
id	否	String	迁移任务ID 最小长度： <b>0</b> 最大长度： <b>255</b>
priority	否	Integer	进程优先级 0：低 1：标准（默认） 2：高 最小值： <b>0</b> 最大值： <b>2</b> 枚举值： <ul style="list-style-type: none"> <li>• <b>0</b></li> <li>• <b>1</b></li> <li>• <b>2</b></li> </ul>
region_id	否	String	目的端服务器的区域ID 最小长度： <b>0</b> 最大长度： <b>255</b>
start_target_server	否	Boolean	迁移完成后是否启动目的端服务器 true：启动 false：停止 缺省值： <b>true</b>
enterprise_project_id	否	String	企业项目ID 最小长度： <b>1</b> 最大长度： <b>255</b>
exist_server	否	Boolean	目的端服务器是否存在。true代表已有目的端服务器，false代表需要新建目的端服务器



参数	是否必选	参数类型	描述
migration_ip	否	String	目的端服务器的IP地址。 公网迁移时请填写弹性IP地址 专线迁移时请填写私有IP地址 最小长度：0 最大长度：255
region_name	否	String	目的端服务器的区域名称 最小长度：0 最大长度：255
speed_limit	否	Integer	限制迁移速率，单位：Mbps 最小值：0 最大值：10000
project_name	否	String	目的端服务器所在项目名称 最小长度：0 最大长度：255
project_id	否	String	目的端服务器所在项目ID 最小长度：0 最大长度：255
vm_template_id	否	String	模板ID 最小长度：0 最大长度：255
source_server	否	PostSourceServerBody object	源端服务器
target_server	否	TargetServer object	目的端服务器
state	否	String	任务状态 最小长度：0 最大长度：255
estimate_complete_time	否	Long	预估完成时间 最小值：0 最大值： 9223372036854775807
connected	否	Boolean	连接状态

参数	是否必选	参数类型	描述
create_date	否	Long	任务创建时间 最小值：0 最大值： <b>9223372036854775807</b>
start_date	否	Long	任务开始时间 最小值：0 最大值： <b>9223372036854775807</b>
finish_date	否	Long	任务结束时间 最小值：0 最大值： <b>9223372036854775807</b>
migrate_speed	否	Double	迁移速率，单位：MB/S 最小值：0 最大值：10000
error_json	否	String	错误信息 最小长度：0 最大长度：1024
total_time	否	Long	任务总耗时 最小值：0 最大值： <b>9223372036854775807</b>
float_ip	否	String	暂时保留float,兼容现网老版本的SMS-Agent 最小长度：0 最大长度：255
remain_seconds	否	Long	迁移剩余时间（秒） 最小值：0 最大值： <b>9223372036854775807</b>
target_snapshot_id	否	String	目的端的快照ID 最小长度：0 最大长度：255
clone_server	否	<b>CloneServer</b> object	克隆服务器类
sub_tasks	否	Array of <b>SubTask</b> objects	任务包含的子任务列表 数组长度：0 - 65535

表 5-160 PostSourceServerBody

参数	是否必选	参数类型	描述
id	否	String	源端在SMS数据库中的ID 最小长度：0 最大长度：255
ip	否	String	源端服务器ip，注册源端时必选，更新非必选 最小长度：0 最大长度：255
name	否	String	用来区分不同源端服务器的名称 最小长度：0 最大长度：255
hostname	否	String	源端主机名，注册源端必选，更新非必选 最小长度：0 最大长度：255
os_type	否	String	源端服务器的OS类型，分为Windows和Linux，注册必选，更新非必选 最小长度：0 最大长度：255 枚举值： <ul style="list-style-type: none"> <li>• WINDOWS</li> <li>• LINUX</li> </ul>
os_version	否	String	操作系统版本，注册必选，更新非必选 最小长度：0 最大长度：255
virtualization_type	否	String	操作系统虚拟化方式 最小长度：0 最大长度：255
linux_block_check	否	String	Linux操作系统块检查 最小长度：0 最大长度：255

参数	是否必选	参数类型	描述
firmware	否	String	源端服务器启动类型，如BIOS或者UEFI 最小长度： <b>0</b> 最大长度： <b>255</b> 枚举值： <ul style="list-style-type: none"> <li>• BIOS</li> <li>• UEFI</li> </ul>
cpu_quantity	否	Integer	CPU个数，单位vCPU 最小值： <b>0</b> 最大值： <b>65535</b>
memory	否	Long	内存大小，单位MB 最小值： <b>0</b> 最大值： <b>9223372036854775807</b>
disks	否	Array of <b>ServerDisk</b> objects	源端服务器的磁盘信息 数组长度： <b>0 - 65535</b>
btrfs_list	否	Array of <b>BtrfsFilesystem</b> objects	Linux 必选，源端的Btrfs信息。如果源端不存在Btrfs，则为[] 数组长度： <b>0 - 65535</b>
networks	否	Array of <b>NetWork</b> objects	源端服务器的网卡信息 数组长度： <b>0 - 65535</b>
domain_id	否	String	租户的domainId 最小长度： <b>0</b> 最大长度： <b>255</b>
has_rsync	否	Boolean	是否安装rsync组件，Linux系统此参数为必选
paravirtualization	否	Boolean	Linux场景必选，源端是否是半虚拟化
raw_devices	否	String	Linux必选，裸设备列表 最小长度： <b>0</b> 最大长度： <b>255</b>
driver_files	否	Boolean	Windows 必选，是否缺少驱动文件
system_services	否	Boolean	Windows必选，是否存在不正常服务

参数	是否必选	参数类型	描述
account_rights	否	Boolean	Windows必选，权限是否满足要求
boot_loader	否	String	Linux必选，系统引导类型，BOOT_LOADER(GRUB/LILO) 枚举值： <ul style="list-style-type: none"> <li>• GRUB</li> <li>• LILO</li> </ul>
system_dir	否	String	Windows必选，系统目录 最小长度：0 最大长度：255
volume_groups	否	Array of VolumeGroups objects	Linux必选，如果没有卷组，输入[] 数组长度：0 - 65535
agent_version	否	String	Agent版本 最小长度：0 最大长度：255
kernel_version	否	String	内核版本信息 最小长度：0 最大长度：255
migration_cycle	否	String	迁移周期 cutovering:启动目的端中 cutovered:启动目的端完成 checking:检查中 setting:设置中 replicating:复制中 syncing:同步中 枚举值： <ul style="list-style-type: none"> <li>• cutovering</li> <li>• cutovered</li> <li>• checking</li> <li>• setting</li> <li>• replicating</li> <li>• syncing</li> </ul>

参数	是否必选	参数类型	描述
state	否	String	<p>源端服务器状态</p> <p>unavailable: 环境校验不通过</p> <p>waiting: 等待</p> <p>initialize: 初始化</p> <p>replicate: 复制</p> <p>syncing: 持续同步</p> <p>stopping: 暂停中</p> <p>stopped: 已暂停</p> <p>deleting: 删除中</p> <p>error: 错误</p> <p>cloning: 等待克隆完成</p> <p>cutovering: 启动目的端中</p> <p>finished: 启动目的端完成</p> <p>最小长度: 0</p> <p>最大长度: 255</p> <p>枚举值:</p> <ul style="list-style-type: none"> <li>● <b>unavailable</b></li> <li>● <b>waiting</b></li> <li>● <b>initialize</b></li> <li>● <b>replicate</b></li> <li>● <b>syncing</b></li> <li>● <b>stopping</b></li> <li>● <b>stopped</b></li> <li>● <b>deleting</b></li> <li>● <b>error</b></li> <li>● <b>cloning</b></li> <li>● <b>cutovering</b></li> <li>● <b>finished</b></li> </ul>
oem_system	否	Boolean	是否是OEM操作系统 (Windows)
start_type	否	String	<p>启动方式, 可以取值 MANUAL、MGC或者空。</p> <p>枚举值:</p> <ul style="list-style-type: none"> <li>● <b>MANUAL</b></li> <li>● <b>MGC</b></li> </ul>

参数	是否必选	参数类型	描述
io_read_wait	否	Double	磁盘IO读时延，单位为ms 最小值： <b>0.0</b> 最大值： <b>10000.0</b>
has_tc	否	Boolean	是否安装tc组件，Linux系统此参数为必选
platform	否	String	平台信息： hw：华为 ali：阿里 aws：亚马逊 azure：微软云 gcp：谷歌云 tencent：腾讯云 vmware： hyperv other：其他 枚举值： <ul style="list-style-type: none"> <li>• hw</li> <li>• ali</li> <li>• aws</li> <li>• azure</li> <li>• gcp</li> <li>• tencent</li> <li>• vmware</li> <li>• hyperv</li> <li>• other</li> </ul>

表 5-161 ServerDisk

参数	是否必选	参数类型	描述
name	是	String	磁盘名称 最小长度： <b>0</b> 最大长度： <b>255</b>

参数	是否必选	参数类型	描述
partition_style	否	String	磁盘的分区类型，添加源端时源端磁盘必选 MBR: mbr格式 GPT: gpt格式 枚举值： <ul style="list-style-type: none"> <li>• MBR</li> <li>• GPT</li> </ul>
device_use	是	String	磁盘类型 BOOT: BOOT设备 OS: 系统设备 枚举值： <ul style="list-style-type: none"> <li>• BOOT</li> <li>• OS</li> </ul>
size	是	Long	磁盘总大小，以字节为单位 最小值: 0 最大值: <b>9223372036854775807</b>
used_size	是	Long	磁盘已使用大小，以字节为单位 最小值: 0 最大值: <b>9223372036854775807</b>
physical_volumes	是	Array of <b>PhysicalVolume</b> objects	磁盘上的物理分区信息 数组长度: 0 - 65535
os_disk	否	Boolean	是否为系统盘
relation_name	否	String	Linux系统 目的端ECS中与源端关联的磁盘名称 最小长度: 0 最大长度: 255
inode_size	否	Integer	inode数量 最小值: 0 最大值: 2147483647



表 5-162 PhysicalVolume

参数	是否必选	参数类型	描述
device_use	否	String	分区类型，普通分区，启动分区，系统分区 最小长度：0 最大长度：255
file_system	否	String	文件系统类型 最小长度：0 最大长度：255
index	否	Integer	顺序 最小值：0 最大值：2147483647
mount_point	否	String	挂载点 最小长度：0 最大长度：255
name	否	String	名称，windows表示盘符，Linux表示设备号 最小长度：0 最大长度：255
size	否	Long	大小 最小值：0 最大值： 9223372036854775807
used_size	否	Long	使用大小 最小值：0 最大值： 9223372036854775807
inode_size	否	Integer	inode数量 最小值：0 最大值：2147483647
inode_nums	否	Long	inode节点数量 最小值：0 最大值： 9223372036854775807
uuid	否	String	GUID，可从源端查询 最小长度：0 最大长度：255

参数	是否必选	参数类型	描述
size_per_cluster	否	Integer	每个cluster大小 最小值： <b>0</b> 最大值： <b>2147483647</b>

表 5-163 TargetServer

参数	是否必选	参数类型	描述
id	否	String	源端在SMS数据库中的ID 最小长度： <b>0</b> 最大长度： <b>255</b>
ip	是	String	源端服务器IP，注册源端时必选，更新非必选 最小长度： <b>0</b> 最大长度： <b>255</b>
name	是	String	用来区分不同源端服务器的名称 最小长度： <b>0</b> 最大长度： <b>255</b>
hostname	否	String	源端主机名，注册源端必选，更新非必选 最小长度： <b>0</b> 最大长度： <b>255</b>
os_type	是	String	源端服务器的OS类型，分为Windows和Linux，注册必选，更新非必选 最小长度： <b>0</b> 最大长度： <b>255</b> 枚举值： <ul style="list-style-type: none"> <li>● <b>WINDOWS</b></li> <li>● <b>LINUX</b></li> </ul>
os_version	否	String	操作系统版本，注册必选，更新非必选 最小长度： <b>0</b> 最大长度： <b>255</b>

参数	是否必选	参数类型	描述
firmware	否	String	源端服务器启动类型，如BIOS或者UEFI 最小长度： <b>0</b> 最大长度： <b>255</b> 枚举值： <ul style="list-style-type: none"> <li>• BIOS</li> <li>• UEFI</li> </ul>
cpu_quantity	否	Integer	CPU个数，单位vCPU 最小值： <b>0</b> 最大值： <b>65535</b>
memory	否	Long	内存大小，单位MB 最小值： <b>0</b> 最大值： <b>9223372036854775807</b>
btrfs_list	否	Array of <b>BtrfsFileSystem</b> objects	Linux 必选，源端的Btrfs信息。如果源端不存在Btrfs，则为[] 数组长度： <b>0 - 65535</b>
networks	否	Array of <b>NetWork</b> objects	源端服务器的网卡信息 数组长度： <b>0 - 65535</b>
domain_id	否	String	租户的domainId 最小长度： <b>0</b> 最大长度： <b>255</b>
has_rsync	否	Boolean	是否安装rsync组件，Linux系统此参数为必选
paravirtualization	否	Boolean	Linux场景必选，源端是否是半虚拟化
raw_devices	否	String	Linux必选，裸设备列表 最小长度： <b>0</b> 最大长度： <b>255</b>
driver_files	否	Boolean	Windows 必选，是否缺少驱动文件
system_services	否	Boolean	Windows必选，是否存在不正常服务
account_rights	否	Boolean	Windows必选，权限是否满足要求

参数	是否必选	参数类型	描述
boot_loader	否	String	Linux必选，系统引导类型，BOOT_LOADER(GRUB/LILO) 枚举值： <ul style="list-style-type: none"> <li>• GRUB</li> <li>• LILO</li> </ul>
system_dir	否	String	Windows必选，系统目录 最小长度：0 最大长度：255
volume_group_s	否	Array of <b>VolumeGroups</b> objects	Linux必选，如果没有卷组，输入[] 数组长度：0 - 65535
vm_id	否	String	目的端服务器ID，自动创建虚拟机不需要这个参数 最小长度：0 最大长度：255
flavor	否	String	目的端服务器的规格 最小长度：0 最大长度：255
disks	是	Array of <b>TargetDisk</b> objects	目的端磁盘信息，一般和源端保持一致 数组长度：0 - 65535
image_disk_id	否	String	目的端代理镜像磁盘ID 最小长度：0 最大长度：255
snapshot_ids	否	String	目的端快照ID 最小长度：0 最大长度：255
cutovered_snapshot_ids	否	String	目的端回滚快照ID 最小长度：0 最大长度：255

表 5-164 BtrfsFileSystem

参数	是否必选	参数类型	描述
name	是	String	文件系统名称 最小长度：0 最大长度：255
label	是	String	文件系统标签，若无标签为空字符串 最小长度：0 最大长度：255
uuid	是	String	文件系统的uuid 最小长度：0 最大长度：255
device	是	String	btrfs包含的设备名称 最小长度：0 最大长度：255
size	是	Long	文件系统数据占用大小 最小值：0 最大值： 9223372036854775807
nodesize	是	Long	btrfs节点大小 最小值：0 最大值： 9223372036854775807
sectorsize	是	Integer	扇区大小 最小值：0 最大值：2147483647
data_profile	是	String	数据配置（RAD） 最小长度：0 最大长度：255
system_profile	是	String	文件系统配置（RAD） 最小长度：0 最大长度：255
metadata_profile	是	String	元数据配置（RAD） 最小长度：0 最大长度：255

参数	是否必选	参数类型	描述
global_reserve 1	是	String	Btrfs文件系统信息 最小长度：0 最大长度：255
g_vol_used_si ze	是	Long	Btrfs卷已使用空间大小 最小值：0 最大值： <b>9223372036854775807</b>
default_subvo lid	是	String	默认子卷ID 最小长度：0 最大长度：255
default_subvo l_name	是	String	默认子卷名称 最小长度：0 最大长度：255
default_subvo l_mountpath	是	String	默认子卷挂载路径/BTRFS文件 系统的挂载路径 最小长度：0 最大长度：255
subvolumn	是	Array of <b>BtrfsSubvolu mn</b> objects	子卷信息 数组长度：0 - 65535

表 5-165 BtrfsSubvolumn

参数	是否必选	参数类型	描述
uuid	是	String	父卷的uuid 最小长度：0 最大长度：255
is_snapshot	是	String	子卷是否为快照 最小长度：0 最大长度：255
subvol_id	是	String	子卷的ID 最小长度：0 最大长度：255
parent_id	是	String	父卷ID 最小长度：0 最大长度：255

参数	是否必选	参数类型	描述
subvol_name	是	String	子卷的名称 最小长度：0 最大长度：255
subvol_mount_path	是	String	子卷的挂载路径 最小长度：0 最大长度：255

表 5-166 NetWork

参数	是否必选	参数类型	描述
name	是	String	网卡的名称 最小长度：0 最大长度：255
ip	是	String	该网卡绑定的IP 最小长度：0 最大长度：255
ipv6	否	String	IPv6地址 最小长度：0 最大长度：255
netmask	是	String	掩码 最小长度：0 最大长度：255
gateway	是	String	网关 最小长度：0 最大长度：255
mtu	否	Integer	Linux必选，网卡的MTU 最小值：0 最大值：2147483647
mac	是	String	Mac地址 最小长度：0 最大长度：255
id	否	String	数据库ID 最小长度：0 最大长度：255

表 5-167 VolumeGroups

参数	是否必选	参数类型	描述
components	否	String	Pv信息 最小长度：0 最大长度：255
free_size	否	Long	剩余空间 最小值：0 最大值： 9223372036854775807
logical_volumes	否	Array of LogicalVolumes objects	lv信息 数组长度：0 - 255
name	否	String	名称 最小长度：0 最大长度：255
size	否	Long	大小 最小值：0 最大值： 9223372036854775807

表 5-168 LogicalVolumes

参数	是否必选	参数类型	描述
block_count	否	Integer	块数量 最小值：0 最大值：2147483647 缺省值：0
block_size	否	Long	块大小 最小值：0 最大值：1048576 缺省值：0
file_system	是	String	文件系统 最小长度：0 最大长度：255
inode_size	是	Integer	inode数量 最小值：0 最大值：2147483647



参数	是否必选	参数类型	描述
inode_nums	否	Long	inode节点数量 最小值：0 最大值： <b>9223372036854775807</b>
device_use	否	String	分区类型，普通分区，启动分区，系统分区 最小长度：0 最大长度：255
mount_point	是	String	挂载点 最小长度：0 最大长度：256
name	是	String	名称 最小长度：0 最大长度：1024
size	是	Long	大小 最小值：0 最大值： <b>9223372036854775807</b>
used_size	是	Long	使用大小 最小值：0 最大值： <b>9223372036854775807</b>
free_size	是	Long	剩余空间 最小值：0 最大值： <b>9223372036854775807</b>

表 5-169 TargetDisk

参数	是否必选	参数类型	描述
id	否	Long	磁盘标识ID 最小值：0 最大值： <b>9223372036854775807</b>

参数	是否必选	参数类型	描述
device_use	否	String	判断是普通分区，启动分区还是系统分区 BOOT: BOOT设备 OS: 系统设备 NORMAL:平常 缺省值: <b>NORMAL</b> 枚举值: <ul style="list-style-type: none"> <li>• <b>NORMAL</b></li> <li>• <b>OS</b></li> <li>• <b>BOOT</b></li> </ul>
disk_id	否	String	磁盘ID 最小长度: <b>0</b> 最大长度: <b>255</b>
name	否	String	磁盘名称 最小长度: <b>0</b> 最大长度: <b>255</b>
physical_volumes	否	Array of <b>TargetPhysicalVolumes</b> objects	逻辑卷信息 数组长度: <b>0 - 65535</b>
size	否	Long	大小 最小值: <b>0</b> 最大值: <b>9223372036854775807</b>
used_size	否	Long	已使用大小 最小值: <b>0</b> 最大值: <b>9223372036854775807</b>
disk_index	否	String	磁盘索引 最小长度: <b>0</b> 最大长度: <b>255</b>
os_disk	否	Boolean	是否为系统盘

参数	是否必选	参数类型	描述
partition_style	否	String	磁盘的分区类型，添加源端时源端磁盘必选 MBR: mbr格式 GPT: gpt格式 枚举值： <ul style="list-style-type: none"> <li>• MBR</li> <li>• GPT</li> </ul>
relation_name	否	String	Linux系统 目的端ECS中与源端关联的磁盘名称 最小长度：0 最大长度：255

表 5-170 TargetPhysicalVolumes

参数	是否必选	参数类型	描述
id	否	Long	逻辑卷ID 最小值：0 最大值： <b>9223372036854775807</b>
device_use	否	String	分区类型 NORMAL:平常 OS: 系统设备 BOOT: BOOT设备 缺省值：NORMAL 枚举值： <ul style="list-style-type: none"> <li>• NORMAL</li> <li>• OS</li> <li>• BOOT</li> </ul>
file_system	否	String	文件系统 最小长度：0 最大长度：255
index	否	Integer	编号 最小值：0 最大值： <b>2147483647</b>
mount_point	否	String	挂载点 最小长度：0 最大长度：255

参数	是否必选	参数类型	描述
name	否	String	名称 最小长度：0 最大长度：255
size	否	Long	大小 最小值：0 最大值： 9223372036854775807
used_size	否	Long	使用大小 最小值：0 最大值： 9223372036854775807
uuid	否	String	uuid 最小长度：0 最大长度：255
relation_name	否	String	Linux系统 目的端ECS中与源端 关联的磁盘名称 最小长度：0 最大长度：255
free_size	否	Long	分区空闲大小 最小值：0 最大值： 9223372036854775807

表 5-171 CloneServer

参数	是否必选	参数类型	描述
vm_id	否	String	克隆服务器ID 最小长度：0 最大长度：255
name	否	String	克隆虚拟机的名称 最小长度：0 最大长度：255
clone_error	否	String	克隆错误信息 最小长度：0 最大长度：255

参数	是否必选	参数类型	描述
clone_state	否	String	克隆状态 最小长度：0 最大长度：255
error_msg	否	String	克隆错误信息描述 最小长度：0 最大长度：1024

表 5-172 SubTask

参数	是否必选	参数类型	描述
id	否	Long	子任务ID 最小值：0 最大值： <b>9223372036854775807</b>
name	否	String	子任务名称 最小长度：0 最大长度：255
progress	是	Integer	子任务的进度，取值为0-100之间的整数 最小值：0 最大值：100
start_date	否	Long	子任务开始时间 最小值：0 最大值： <b>9223372036854775807</b>
end_date	否	Long	子任务结束时间（如果子任务还没有结束，则为空） 最小值：0 最大值： <b>9223372036854775807</b>
migrate_speed	否	Double	迁移速率，Mbit/s 最小值：0 最大值：10000
user_op	否	String	触发子任务的用户操作名称 最小长度：0 最大长度：50

参数	是否必选	参数类型	描述
process_trace	否	String	迁移或同步时，具体的迁移详情 最小长度：0 最大长度：2048

## 响应参数

状态码：200

表 5-173 响应 Body 参数

参数	参数类型	描述
-	String	更新指定ID的迁移任务

状态码：403

表 5-174 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度：0 最大长度：255
error_msg	String	错误信息 最小长度：0 最大长度：255
encoded_authorization_message	String	加密授权信息 最小长度：0 最大长度：65535
error_param	Array of strings	错误参数 最小长度：0 最大长度：65535 数组长度：1 - 20
details	Array of <b>details</b> objects	详细错误信息 数组长度：1 - 20

表 5-175 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度：0 最大长度：65535
error_msg	String	SMS错误信息 最小长度：0 最大长度：65535

## 请求示例

更新任务ID为ef3b9722-07a0-40ae-89b0-889ee96dxxxx的迁移任务的信息。

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

```
{
  "name": "MigrationTask",
  "type": "MIGRATE_BLOCK",
  "os_type": "WINDOWS",
  "state": "RUNNING",
  "estimate_complete_time": null,
  "create_date": 1598435778000,
  "start_date": 1598435784000,
  "finish_date": null,
  "priority": 1,
  "speed_limit": 0,
  "migrate_speed": 0.0,
  "start_target_server": true,
  "error_json": "",
  "total_time": 115,
  "float_ip": null,
  "migration_ip": null,
  "vm_template_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "region_name": "region name",
  "region_id": "region id",
  "project_name": "project name",
  "project_id": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
  "sub_tasks": [ {
    "id": 7278,
    "name": "CREATE_CLOUD_SERVER",
    "progress": 0,
    "start_date": 1598435802000,
    "end_date": null,
    "user_op": "REPLICATE"
  }, {
    "id": 7279,
    "name": "SSL_CONFIG",
    "progress": 0,
    "start_date": null,
    "end_date": null,
    "user_op": "REPLICATE"
  }, {
    "id": 7280,
    "name": "ATTACH_AGENT_IMAGE",
    "progress": 0,
    "start_date": null,
    "end_date": null,
    "user_op": "REPLICATE"
  }, {
    "id": 7281,
```

```

"name" : "FORMAT_DISK_WINDOWS",
"progress" : 0,
"start_date" : null,
"end_date" : null,
"user_op" : "REPLICATE"
}, {
  "id" : 7282,
  "name" : "MIGRATE_WINDOWS_BLOCK",
  "progress" : 0,
  "start_date" : null,
  "end_date" : null,
  "user_op" : "REPLICATE"
}],
"source_server" : {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip" : "192.168.0.154",
  "name" : "name-win16",
  "os_type" : "WINDOWS",
  "os_version" : "WINDOWS2016_64BIT",
  "agent_version" : "1.2.0",
  "oem_system" : false,
  "state" : "initialize",
  "migration_cycle" : "replicating"
},
"target_server" : {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "vm_id" : "",
  "name" : "",
  "ip" : null,
  "os_type" : "WINDOWS",
  "os_version" : "WINDOWS2016_64BIT",
  "system_dir" : "Y:\\Windows\\System32",
  "disks" : [ {
    "id" : 88008,
    "name" : "Disk 1",
    "relation_name" : null,
    "disk_id" : "0",
    "partition_style" : "MBR",
    "size" : 42949672960,
    "used_size" : 42947575808,
    "device_use" : "OS",
    "os_disk" : true,
    "physical_volumes" : [ {
      "id" : 135055,
      "uuid" : "\\?\\Volume{586b7157-0000-0000-0000-100000000000}\\",
      "index" : 1,
      "name" : "Z:",
      "relation_name" : null,
      "device_use" : "BOOT",
      "file_system" : "NTFS",
      "mount_point" : null,
      "size" : 524288000,
      "used_size" : 410275840,
      "free_size" : 114012160
    }, {
      "id" : 135056,
      "uuid" : "\\?\\Volume{586b7157-0000-0000-0000-501f00000000}\\",
      "index" : 2,
      "name" : "Y:",
      "relation_name" : null,
      "device_use" : "OS",
      "file_system" : "NTFS",
      "mount_point" : null,
      "size" : 42423287808,
      "used_size" : 23170301952,
      "free_size" : 19252985856
    }
  ],
  "disk_index" : "0"
}
}],

```



```
"volume_groups" : [ ],
"image_disk_id" : null,
"cutovered_snapshot_ids" : null
},
"clone_server" : null
}
```

## 响应示例

**状态码： 200**

更新指定ID的迁移任务

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

**状态码： 403**

鉴权失败

```
{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

更新任务ID为ef3b9722-07a0-40ae-89b0-889ee96dxxxx的迁移任务的信息。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateTaskSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");
    }
}
```

```

ICredential auth = new GlobalCredentials()
    .withAk(ak)
    .withSk(sk);

SmsClient client = SmsClient.newBuilder()
    .withCredential(auth)
    .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
    .build();
UpdateTaskRequest request = new UpdateTaskRequest();
request.withTaskId("{task_id}");
PutTaskReq body = new PutTaskReq();
List<SubTask> listbodySubTasks = new ArrayList<>();
listbodySubTasks.add(
    new SubTask()
        .withId(7278L)
        .withName("CREATE_CLOUD_SERVER")
        .withProgress(0)
        .withStartDate(1598435802000L)
        .withUserOp("REPLICATE")
);
listbodySubTasks.add(
    new SubTask()
        .withId(7279L)
        .withName("SSL_CONFIG")
        .withProgress(0)
        .withUserOp("REPLICATE")
);
listbodySubTasks.add(
    new SubTask()
        .withId(7280L)
        .withName("ATTACH_AGENT_IMAGE")
        .withProgress(0)
        .withUserOp("REPLICATE")
);
listbodySubTasks.add(
    new SubTask()
        .withId(7281L)
        .withName("FORMAT_DISK_WINDOWS")
        .withProgress(0)
        .withUserOp("REPLICATE")
);
listbodySubTasks.add(
    new SubTask()
        .withId(7282L)
        .withName("MIGRATE_WINDOWS_BLOCK")
        .withProgress(0)
        .withUserOp("REPLICATE")
);
List<TargetPhysicalVolumes> listDisksPhysicalVolumes = new ArrayList<>();
listDisksPhysicalVolumes.add(
    new TargetPhysicalVolumes()
        .withId(135055L)
        .withDeviceUse(TargetPhysicalVolumes.DeviceUseEnum.fromValue("BOOT"))
        .withFileSystem("NTFS")
        .withIndex(1)
        .withName("Z:")
        .withSize(524288000L)
        .withUsedSize(410275840L)
        .withUuid("\\?\\Volume{586b7157-0000-0000-0000-100000000000}")
        .withFreeSize(114012160L)
);
listDisksPhysicalVolumes.add(
    new TargetPhysicalVolumes()
        .withId(135056L)
        .withDeviceUse(TargetPhysicalVolumes.DeviceUseEnum.fromValue("OS"))
        .withFileSystem("NTFS")
        .withIndex(2)
        .withName("Y:")
        .withSize(42423287808L)
);

```

```

        .withUsedSize(23170301952L)
        .withUuid("\\?\\Volume{586b7157-0000-0000-0000-501f00000000}\\")
        .withFreeSize(19252985856L)
    );
    List<TargetDisk> listTargetServerDisks = new ArrayList<>();
    listTargetServerDisks.add(
        new TargetDisk()
            .withId(88008L)
            .withDeviceUse(TargetDisk.DeviceUseEnum.fromValue("OS"))
            .withDiskId("0")
            .withName("Disk 1")
            .withPhysicalVolumes(listDisksPhysicalVolumes)
            .withSize(42949672960L)
            .withUsedSize(42947575808L)
            .withDiskIndex("0")
            .withOsDisk(true)
            .withPartitionStyle(TargetDisk.PartitionStyleEnum.fromValue("MBR"))
    );
    TargetServer targetServerbody = new TargetServer();
    targetServerbody.withDisks(listTargetServerDisks)
        .withVolumeGroups()
        .withVmId("")
        .withId("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
        .withOsVersion("WINDOWS2016_64BIT")
        .withSystemDir("Y:\\Windows\\System32")
        .withOsType(TargetServer.OsTypeEnum.fromValue("WINDOWS"))
        .withName("");
    PostSourceServerBody sourceServerbody = new PostSourceServerBody();
    sourceServerbody.withId("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
        .withIp("192.168.0.154")
        .withName("name-win16")
        .withOsType(PostSourceServerBody.OsTypeEnum.fromValue("WINDOWS"))
        .withOsVersion("WINDOWS2016_64BIT")
        .withAgentVersion("1.2.0")
        .withMigrationCycle(PostSourceServerBody.MigrationCycleEnum.fromValue("replicating"))
        .withState(PostSourceServerBody.StateEnum.fromValue("initialize"))
        .withOemSystem(false);
    body.withSubTasks(listbodySubTasks);
    body.withTotalTime(115L);
    body.withErrorJson("");
    body.withMigrateSpeed((double)0.0);
    body.withStartDate(1598435784000L);
    body.withCreateDate(1598435778000L);
    body.withState("RUNNING");
    body.withTargetServer(targetServerbody);
    body.withSourceServer(sourceServerbody);
    body.withVmTemplateId("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001");
    body.withProjectId("xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx00000001");
    body.withProjectName("project name");
    body.withSpeedLimit(0);
    body.withRegionName("region name");
    body.withStartTargetServer(true);
    body.withRegionId("region id");
    body.withPriority(PutTaskReq.PriorityEnum.NUMBER_1);
    body.withOsType(PutTaskReq.OsTypeEnum.fromValue("WINDOWS"));
    body.withType(PutTaskReq.TypeEnum.fromValue("MIGRATE_BLOCK"));
    body.withName("MigrationTask");
    request.withBody(body);
    try {
        UpdateTaskResponse response = client.updateTask(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
    }

```

```
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

## Python

更新任务ID为ef3b9722-07a0-40ae-89b0-889ee96dxxxx的迁移任务的信息。

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateTaskRequest()
        request.task_id = "{task_id}"
        listSubTasksbody = [
            SubTask(
                id=7278,
                name="CREATE_CLOUD_SERVER",
                progress=0,
                start_date=1598435802000,
                user_op="REPLICATE"
            ),
            SubTask(
                id=7279,
                name="SSL_CONFIG",
                progress=0,
                user_op="REPLICATE"
            ),
            SubTask(
                id=7280,
                name="ATTACH_AGENT_IMAGE",
                progress=0,
                user_op="REPLICATE"
            ),
            SubTask(
                id=7281,
                name="FORMAT_DISK_WINDOWS",
                progress=0,
                user_op="REPLICATE"
            ),
            SubTask(
                id=7282,
                name="MIGRATE_WINDOWS_BLOCK",
                progress=0,
                user_op="REPLICATE"
            )
        ]
```

```

]
listPhysicalVolumesDisks = [
  TargetPhysicalVolumes(
    id=135055,
    device_use="BOOT",
    file_system="NTFS",
    index=1,
    name="Z:",
    size=524288000,
    used_size=410275840,
    uuid="\\?\Volume{586b7157-0000-0000-0000-100000000000}\",
    free_size=114012160
  ),
  TargetPhysicalVolumes(
    id=135056,
    device_use="OS",
    file_system="NTFS",
    index=2,
    name="Y:",
    size=42423287808,
    used_size=23170301952,
    uuid="\\?\Volume{586b7157-0000-0000-0000-501f00000000}\",
    free_size=19252985856
  )
]
listDisksTargetServer = [
  TargetDisk(
    id=88008,
    device_use="OS",
    disk_id="0",
    name="Disk 1",
    physical_volumes=listPhysicalVolumesDisks,
    size=42949672960,
    used_size=42947575808,
    disk_index="0",
    os_disk=True,
    partition_style="MBR"
  )
]
targetServerbody = TargetServer(
  disks=listDisksTargetServer,
  vm_id="",
  id="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  os_version="WINDOWS2016_64BIT",
  system_dir="Y:\Windows\System32",
  os_type="WINDOWS",
  name=""
)
sourceServerbody = PostSourceServerBody(
  id="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  ip="192.168.0.154",
  name="name-win16",
  os_type="WINDOWS",
  os_version="WINDOWS2016_64BIT",
  agent_version="1.2.0",
  migration_cycle="replicating",
  state="initialize",
  oem_system=False
)
request.body = PutTaskReq(
  sub_tasks=listSubTasksbody,
  total_time=115,
  error_json="",
  migrate_speed=0.0,
  start_date=1598435784000,
  create_date=1598435778000,
  state="RUNNING",
  target_server=targetServerbody,
  source_server=sourceServerbody,

```

```

vm_template_id="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
project_id="xxxxxxxxxxxxxxxxxxxxxxxx00000001",
project_name="project name",
speed_limit=0,
region_name="region name",
start_target_server=True,
region_id="region id",
priority=1,
os_type="WINDOWS",
type="MIGRATE_BLOCK",
name="MigrationTask"
)
response = client.update_task(request)
print(response)
except exceptions.ClientRequestException as e:
print(e.status_code)
print(e.request_id)
print(e.error_code)
print(e.error_msg)

```

## Go

更新任务ID为ef3b9722-07a0-40ae-89b0-889ee96dxxxx的迁移任务的信息。

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateTaskRequest{}
    request.TaskId = "{task_id}"
    idSubTasks:= int64(7278)
    nameSubTasks:= "CREATE_CLOUD_SERVER"
    startDateSubTasks:= int64(1598435802000)
    userOpSubTasks:= "REPLICATE"
    idSubTasks1:= int64(7279)
    nameSubTasks1:= "SSL_CONFIG"
    userOpSubTasks1:= "REPLICATE"
    idSubTasks2:= int64(7280)
    nameSubTasks2:= "ATTACH_AGENT_IMAGE"
    userOpSubTasks2:= "REPLICATE"
    idSubTasks3:= int64(7281)
    nameSubTasks3:= "FORMAT_DISK_WINDOWS"
    userOpSubTasks3:= "REPLICATE"

```

```

idSubTasks4:= int64(7282)
nameSubTasks4:= "MIGRATE_WINDOWS_BLOCK"
userOpSubTasks4:= "REPLICATE"
var listSubTasksbody = []model.SubTask{
    {
        Id: &idSubTasks,
        Name: &nameSubTasks,
        Progress: int32(0),
        StartDate: &startDateSubTasks,
        UserOp: &userOpSubTasks,
    },
    {
        Id: &idSubTasks1,
        Name: &nameSubTasks1,
        Progress: int32(0),
        UserOp: &userOpSubTasks1,
    },
    {
        Id: &idSubTasks2,
        Name: &nameSubTasks2,
        Progress: int32(0),
        UserOp: &userOpSubTasks2,
    },
    {
        Id: &idSubTasks3,
        Name: &nameSubTasks3,
        Progress: int32(0),
        UserOp: &userOpSubTasks3,
    },
    {
        Id: &idSubTasks4,
        Name: &nameSubTasks4,
        Progress: int32(0),
        UserOp: &userOpSubTasks4,
    },
}
idPhysicalVolumes:= int64(135055)
deviceUsePhysicalVolumes:= model.GetTargetPhysicalVolumesDeviceUseEnum().BOOT
fileSystemPhysicalVolumes:= "NTFS"
indexPhysicalVolumes:= int32(1)
namePhysicalVolumes:= "Z:"
sizePhysicalVolumes:= int64(524288000)
usedSizePhysicalVolumes:= int64(410275840)
uuidPhysicalVolumes:= "\\?\Volume{586b7157-0000-0000-0000-100000000000}\\"
freeSizePhysicalVolumes:= int64(114012160)
idPhysicalVolumes1:= int64(135056)
deviceUsePhysicalVolumes1:= model.GetTargetPhysicalVolumesDeviceUseEnum().OS
fileSystemPhysicalVolumes1:= "NTFS"
indexPhysicalVolumes1:= int32(2)
namePhysicalVolumes1:= "Y:"
sizePhysicalVolumes1:= int64(42423287808)
usedSizePhysicalVolumes1:= int64(23170301952)
uuidPhysicalVolumes1:= "\\?\Volume{586b7157-0000-0000-0000-501f00000000}\\"
freeSizePhysicalVolumes1:= int64(19252985856)
var listPhysicalVolumesDisks = []model.TargetPhysicalVolumes{
    {
        Id: &idPhysicalVolumes,
        DeviceUse: &deviceUsePhysicalVolumes,
        FileSystem: &fileSystemPhysicalVolumes,
        Index: &indexPhysicalVolumes,
        Name: &namePhysicalVolumes,
        Size: &sizePhysicalVolumes,
        UsedSize: &usedSizePhysicalVolumes,
        Uuid: &uuidPhysicalVolumes,
        FreeSize: &freeSizePhysicalVolumes,
    },
    {
        Id: &idPhysicalVolumes1,
        DeviceUse: &deviceUsePhysicalVolumes1,
    },
}

```

```

        FileSystem: &fileSystemPhysicalVolumes1,
        Index: &indexPhysicalVolumes1,
        Name: &namePhysicalVolumes1,
        Size: &sizePhysicalVolumes1,
        UsedSize: &usedSizePhysicalVolumes1,
        Uuid: &uuidPhysicalVolumes1,
        FreeSize: &freeSizePhysicalVolumes1,
    },
}
idDisks:= int64(88008)
deviceUseDisks:= model.GetTargetDiskDeviceUseEnum().OS
diskIdDisks:= "0"
nameDisks:= "Disk 1"
sizeDisks:= int64(42949672960)
usedSizeDisks:= int64(42947575808)
diskIndexDisks:= "0"
osDiskDisks:= true
partitionStyleDisks:= model.GetTargetDiskPartitionStyleEnum().MBR
var listDisksTargetServer = []model.TargetDisk{
{
    Id: &idDisks,
    DeviceUse: &deviceUseDisks,
    DiskId: &diskIdDisks,
    Name: &nameDisks,
    PhysicalVolumes: &listPhysicalVolumesDisks,
    Size: &sizeDisks,
    UsedSize: &usedSizeDisks,
    DiskIndex: &diskIndexDisks,
    OsDisk: &osDiskDisks,
    PartitionStyle: &partitionStyleDisks,
},
}
vmlIdTargetServer:= ""
idTargetServer:= "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001"
osVersionTargetServer:= "WINDOWS2016_64BIT"
systemDirTargetServer:= "Y:\Windows\System32"
targetServerbody := &model.TargetServer{
    Disks: listDisksTargetServer,
    VmlId: &vmlIdTargetServer,
    Id: &idTargetServer,
    OsVersion: &osVersionTargetServer,
    SystemDir: &systemDirTargetServer,
    OsType: model.GetTargetServerOsTypeEnum().WINDOWS,
    Name: "",
}
idSourceServer:= "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001"
ipSourceServer:= "192.168.0.154"
nameSourceServer:= "name-win16"
osTypeSourceServer:= model.GetPostSourceServerBodyOsTypeEnum().WINDOWS
osVersionSourceServer:= "WINDOWS2016_64BIT"
agentVersionSourceServer:= "1.2.0"
migrationCycleSourceServer:= model.GetPostSourceServerBodyMigrationCycleEnum().REPLICATING
stateSourceServer:= model.GetPostSourceServerBodyStateEnum().INITIALIZE
oemSystemSourceServer:= false
sourceServerbody := &model.PostSourceServerBody{
    Id: &idSourceServer,
    Ip: &ipSourceServer,
    Name: &nameSourceServer,
    OsType: &osTypeSourceServer,
    OsVersion: &osVersionSourceServer,
    AgentVersion: &agentVersionSourceServer,
    MigrationCycle: &migrationCycleSourceServer,
    State: &stateSourceServer,
    OemSystem: &oemSystemSourceServer,
}
totalTimePutTaskReq:= int64(115)
errorJsonPutTaskReq:= ""
migrateSpeedPutTaskReq:= float64(0.0)
startDatePutTaskReq:= int64(1598435784000)

```



```
createDatePutTaskReq:= int64(1598435778000)
statePutTaskReq:= "RUNNING"
vmTemplateIdPutTaskReq:= "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001"
projectIdPutTaskReq:= "xxxxxxxxxxxxxxxxxxxxxxxx00000001"
 projectNamePutTaskReq:= "project name"
speedLimitPutTaskReq:= int32(0)
regionNamePutTaskReq:= "region name"
startTargetServerPutTaskReq:= true
regionIdPutTaskReq:= "region id"
priorityPutTaskReq:= model.GetPutTaskReqPriorityEnum().E_1
osTypePutTaskReq:= model.GetPutTaskReqOsTypeEnum().WINDOWS
typePutTaskReq:= model.GetPutTaskReqTypeEnum().MIGRATE_BLOCK
namePutTaskReq:= "MigrationTask"
request.Body = &model.PutTaskReq{
    SubTasks: &listSubTasksbody,
    TotalTime: &totalTimePutTaskReq,
    ErrorJson: &errorJsonPutTaskReq,
    MigrateSpeed: &migrateSpeedPutTaskReq,
    StartDate: &startDatePutTaskReq,
    CreateDate: &createDatePutTaskReq,
    State: &statePutTaskReq,
    TargetServer: targetServerbody,
    SourceServer: sourceServerbody,
    VmTemplateId: &vmTemplateIdPutTaskReq,
    ProjectId: &projectIdPutTaskReq,
    ProjectName: &projectNamePutTaskReq,
    SpeedLimit: &speedLimitPutTaskReq,
    RegionName: &regionNamePutTaskReq,
    StartTargetServer: &startTargetServerPutTaskReq,
    RegionId: &regionIdPutTaskReq,
    Priority: &priorityPutTaskReq,
    OsType: &osTypePutTaskReq,
    Type: &typePutTaskReq,
    Name: &namePutTaskReq,
}
response, err := client.UpdateTask(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

状态码	描述
200	更新指定ID的迁移任务
403	鉴权失败

## 错误码

请参见[错误码](#)。

## 5.4.7 管理迁移任务

### 功能介绍

管理迁移任务，包括启动任务，暂停任务，同步任务，日志上传，回滚失败迁移任务。

### 调用方法

请参见[如何调用API](#)。

### URI

POST /v3/tasks/{task\_id}/action

表 5-176 路径参数

参数	是否必选	参数类型	描述
task_id	是	String	迁移任务ID 最小长度：0 最大长度：255

### 请求参数

表 5-177 请求 Header 参数

参数	是否必选	参数类型	描述
X-Auth-Token	是	String	X-Auth-Token 用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 最小长度：1 最大长度：16384

表 5-178 请求 Body 参数

参数	是否必选	参数类型	描述
operation	是	String	操作任务的具体动作 start:开始任务 stop:停止任务 test:测试 clone_test:克隆测试 restart:重新开始 network_check:网络质量检测 枚举值: <ul style="list-style-type: none"> <li>● start</li> <li>● stop</li> <li>● test</li> <li>● clone_test</li> <li>● restart</li> <li>● network_check</li> </ul>
template_id	否	String	模板id 最小长度: 0 最大长度: 2048
switch_hce	否	Boolean	是否切换hce 缺省值: false
is_need_consistency_check	否	Boolean	是否进行一致性校验 缺省值: false

## 响应参数

状态码: 200

表 5-179 响应 Body 参数

参数	参数类型	描述
-	String	管理迁移任务成功

状态码: 403

表 5-180 响应 Body 参数

参数	参数类型	描述
error_code	String	错误代码 最小长度：0 最大长度：255
error_msg	String	错误信息 最小长度：0 最大长度：255
encoded_authorization_message	String	加密授权信息 最小长度：0 最大长度：65535
error_param	Array of strings	错误参数 最小长度：0 最大长度：65535 数组长度：1 - 20
details	Array of <b>details</b> objects	详细错误信息 数组长度：1 - 20

表 5-181 details

参数	参数类型	描述
error_code	String	SMS错误代码 最小长度：0 最大长度：65535
error_msg	String	SMS错误信息 最小长度：0 最大长度：65535

## 请求示例

- 管理迁移任务。操作类型是克隆时，需要指定模板id。克隆ID为7a9a9540-ff28-4869-b9e4-855fbe12xxxx的任务的目的端服务器

```
POST https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx/action
{
  "operation": "clone_test",
  "template_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001"
}
```

- 启动目的端

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

- ```
{
  "operation" : "test"
}
```
- 启动ID为7a9a9540-ff28-4869-b9e4-855fbe12xxxx的任务  
POST https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx/action  

```
{
  "operation" : "start"
}
```
  - 暂停ID为7a9a9540-ff28-4869-b9e4-855fbe12xxxx的任务  
POST https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx/action  

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

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

## 响应示例

**状态码： 403**

鉴权失败

```
{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

- 管理迁移任务。操作类型是克隆时，需要指定模板id。克隆ID为7a9a9540-ff28-4869-b9e4-855fbe12xxxx的任务的目的端服务器

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class UpdateTaskStatusSolution {
```

```

public static void main(String[] args) {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    // environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before
    // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    // environment
    String ak = System.getenv("CLOUD_SDK_AK");
    String sk = System.getenv("CLOUD_SDK_SK");

    ICredential auth = new GlobalCredentials()
        .withAk(ak)
        .withSk(sk);

    SmsClient client = SmsClient.newBuilder()
        .withCredential(auth)
        .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
        .build();
    UpdateTaskStatusRequest request = new UpdateTaskStatusRequest();
    request.withTaskId("{task_id}");
    UpdateTaskStatusReq body = new UpdateTaskStatusReq();
    body.withTemplateId("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001");
    body.withOperation(UpdateTaskStatusReq.OperationEnum.fromValue("clone_test"));
    request.withBody(body);
    try {
        UpdateTaskStatusResponse response = client.updateTaskStatus(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}

```

- 启动目的端

```

package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class UpdateTaskStatusSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before
        // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
        // environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);
    }
}

```

```
SmsClient client = SmsClient.newBuilder()
    .withCredential(auth)
    .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
    .build();
UpdateTaskStatusRequest request = new UpdateTaskStatusRequest();
request.withTaskId("{task_id}");
UpdateTaskStatusReq body = new UpdateTaskStatusReq();
body.withOperation(UpdateTaskStatusReq.OperationEnum.fromValue("test"));
request.withBody(body);
try {
    UpdateTaskStatusResponse response = client.updateTaskStatus(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

- 启动ID为7a9a9540-ff28-4869-b9e4-855fbe12xxxx的任务

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class UpdateTaskStatusSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before
        // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
        // environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateTaskStatusRequest request = new UpdateTaskStatusRequest();
        request.withTaskId("{task_id}");
        UpdateTaskStatusReq body = new UpdateTaskStatusReq();
        body.withOperation(UpdateTaskStatusReq.OperationEnum.fromValue("start"));
        request.withBody(body);
        try {
            UpdateTaskStatusResponse response = client.updateTaskStatus(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
```

```

        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
}

```

- 暂停ID为7a9a9540-ff28-4869-b9e4-855fbe12xxxx的任务

```

package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class UpdateTaskStatusSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before
        // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
        // environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateTaskStatusRequest request = new UpdateTaskStatusRequest();
        request.withTaskId("{task_id}");
        UpdateTaskStatusReq body = new UpdateTaskStatusReq();
        body.withOperation(UpdateTaskStatusReq.OperationEnum.fromValue("stop"));
        request.withBody(body);
        try {
            UpdateTaskStatusResponse response = client.updateTaskStatus(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
}

```

- 重启ID为7a9a9540-ff28-4869-b9e4-855fbe12xxxx任务

```

package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;

```



```
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class UpdateTaskStatusSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before
        // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
        // environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateTaskStatusRequest request = new UpdateTaskStatusRequest();
        request.withTaskId("{task_id}");
        UpdateTaskStatusReq body = new UpdateTaskStatusReq();
        body.withOperation(UpdateTaskStatusReq.OperationEnum.fromValue("restart"));
        request.withBody(body);
        try {
            UpdateTaskStatusResponse response = client.updateTaskStatus(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

- 管理迁移任务。操作类型是克隆时，需要指定模板id。克隆ID为7a9a9540-ff28-4869-b9e4-855fbe12xxxx的任务的目的端服务器

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcore.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcore import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    # security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    # environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before
```

running this example, set environment variables CLOUD\_SDK\_AK and CLOUD\_SDK\_SK in the local environment

```
ak = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]

credentials = GlobalCredentials(ak, sk)

client = SmsClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(SmsRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = UpdateTaskStatusRequest()
    request.task_id = "{task_id}"
    request.body = UpdateTaskStatusReq(
        template_id="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        operation="clone_test"
    )
    response = client.update_task_status(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

- 启动目的端

# coding: utf-8

```
import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    # security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    # environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before
    # running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    # environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateTaskStatusRequest()
        request.task_id = "{task_id}"
        request.body = UpdateTaskStatusReq(
            operation="test"
        )
        response = client.update_task_status(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

- 启动ID为7a9a9540-ff28-4869-b9e4-855fbe12xxxx的任务

# coding: utf-8

```
import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    # security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    # environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before
    # running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    # environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateTaskStatusRequest()
        request.task_id = "{task_id}"
        request.body = UpdateTaskStatusReq(
            operation="start"
        )
        response = client.update_task_status(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

- 暂停ID为7a9a9540-ff28-4869-b9e4-855f8e12xxxx的任务

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    # security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    # environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before
    # running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    # environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateTaskStatusRequest()
        request.task_id = "{task_id}"
        request.body = UpdateTaskStatusReq(
            operation="stop"
        )
        response = client.update_task_status(request)
```

```
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

- 重启ID为7a9a9540-ff28-4869-b9e4-855fbe12xxxx任务

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    # security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    # environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before
    # running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    # environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateTaskStatusRequest()
        request.task_id = "{task_id}"
        request.body = UpdateTaskStatusReq(
            operation="restart"
        )
        response = client.update_task_status(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

- 管理迁移任务。操作类型是克隆时，需要指定模板id。克隆ID为7a9a9540-ff28-4869-b9e4-855fbe12xxxx的任务的目的端服务器

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    // environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before
    // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    // environment
```

```

ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

auth := global.NewCredentialsBuilder().
    WithAk(ak).
    WithSk(sk).
    Build()

client := sms.NewSmsClient(
    sms.SmsClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.UpdateTaskStatusRequest{}
request.TaskId = "{task_id}"
templateIdUpdateTaskStatusReq:= "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001"
request.Body = &model.UpdateTaskStatusReq{
    TemplateId: &templateIdUpdateTaskStatusReq,
    Operation: model.GetUpdateTaskStatusReqOperationEnum().CLONE_TEST,
}
response, err := client.UpdateTaskStatus(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}

```

- 启动目的端

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    // environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before
    // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    // environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateTaskStatusRequest{}
    request.TaskId = "{task_id}"
    request.Body = &model.UpdateTaskStatusReq{
        Operation: model.GetUpdateTaskStatusReqOperationEnum().TEST,
    }
    response, err := client.UpdateTaskStatus(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {

```

```
    fmt.Println(err)
  }
}
```

- 启动ID为7a9a9540-ff28-4869-b9e4-855fbe12xxxx的任务

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    // environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before
    // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    // environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateTaskStatusRequest{}
    request.TaskId = "{task_id}"
    request.Body = &model.UpdateTaskStatusReq{
        Operation: model.GetUpdateTaskStatusReqOperationEnum().START,
    }
    response, err := client.UpdateTaskStatus(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

- 暂停ID为7a9a9540-ff28-4869-b9e4-855fbe12xxxx的任务

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    // environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before
    // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    // environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")
```

```

auth := global.NewCredentialsBuilder().
    WithAk(ak).
    WithSk(sk).
    Build()

client := sms.NewSmsClient(
    sms.SmsClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.UpdateTaskStatusRequest{}
request.TaskId = "{task_id}"
request.Body = &model.UpdateTaskStatusReq{
    Operation: model.GetUpdateTaskStatusReqOperationEnum().STOP,
}
response, err := client.UpdateTaskStatus(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}

```

- 重启ID为7a9a9540-ff28-4869-b9e4-855fbe12xxxx任务

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    // environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before
    // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    // environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateTaskStatusRequest{}
    request.TaskId = "{task_id}"
    request.Body = &model.UpdateTaskStatusReq{
        Operation: model.GetUpdateTaskStatusReqOperationEnum().RESTART,
    }
    response, err := client.UpdateTaskStatus(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}

```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述       |
|-----|----------|
| 200 | 管理迁移任务成功 |
| 403 | 鉴权失败     |

## 错误码

请参见[错误码](#)。

## 5.4.8 上报数据迁移进度和速率

### 功能介绍

此接口由安装在源端服务器上的迁移Agent在数据迁移阶段调用，用来将迁移的具体进度上报给SMS服务端。

迁移Agent自动调用此接口用于上报数据迁移进度，您无需调用此接口。

### 调用方法

请参见[如何调用API](#)。

### URI

PUT /v3/tasks/{task\_id}/progress

表 5-182 路径参数

| 参数      | 是否必选 | 参数类型   | 描述                                              |
|---------|------|--------|-------------------------------------------------|
| task_id | 是    | String | 主机迁移任务的ID<br>最小长度： <b>0</b><br>最大长度： <b>255</b> |



## 请求参数

表 5-183 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                                               |
|--------------|------|--------|------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度： <b>1</b><br>最大长度： <b>16384</b> |

表 5-184 请求 Body 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------|------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| subtask_name | 是    | String | <p>当前上报进度的子任务名称，子任务名称包括：</p> <p>创建虚拟机<br/>CREATE_CLOUD_SERVER</p> <p>配置安全通道 SSL_CONFIG</p> <p>挂载代理镜像<br/>ATTACH_AGENT_IMAGE</p> <p>卸载代理镜像<br/>DETTACH_AGENT_IMAGE</p> <p>Linux分区格式化<br/>FORMAT_DISK_LINUX</p> <p>Linux分区格式化(文件级级)<br/>FORMAT_DISK_LINUX_FILE</p> <p>Linux分区格式化(块级)<br/>FORMAT_DISK_LINUX_BLOCK</p> <p>Windows分区格式化<br/>FORMAT_DISK_WINDOWS</p> <p>Linux文件级数据迁移<br/>MIGRATE_LINUX_FILE,</p> <p>Linux块级数据迁移<br/>MIGRATE_LINUX_BLOCK</p> <p>Windows块级数据迁移<br/>MIGRATE_WINDOWS_BLOCK</p> <p>克隆一个虚拟机 CLONE_VM</p> <p>Linux文件级数据同步<br/>SYNC_LINUX_FILE</p> <p>Linux块级数据同步<br/>SYNC_LINUX_BLOCK</p> <p>Windows块级数据同步<br/>SYNC_WINDOWS_BLOCK</p> <p>Linux配置修改<br/>CONFIGURE_LINUX</p> <p>Linux配置修改(块级)<br/>CONFIGURE_LINUX_BLOCK</p> <p>Linux配置修改(文件级)<br/>CONFIGURE_LINUX_FILE</p> <p>Windows配置修改<br/>CONFIGURE_WINDOWS</p> <p>最小长度：0</p> <p>最大长度：255</p> <p>枚举值：</p> <ul style="list-style-type: none"> <li>● CREATE_CLOUD_SERVER</li> </ul> |

| 参数            | 是否必选 | 参数类型    | 描述                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------|------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |      |         | <ul style="list-style-type: none"> <li>• SSL_CONFIG</li> <li>• ATTACH_AGENT_IMAGE</li> <li>• DETTACH_AGENT_IMAGE</li> <li>• FORMAT_DISK_LINUX</li> <li>• FORMAT_DISK_LINUX_FILE</li> <li>• FORMAT_DISK_LINUX_BLOCK</li> <li>• FORMAT_DISK_WINDOWS</li> <li>• MIGRATE_LINUX_FILE</li> <li>• MIGRATE_LINUX_BLOCK</li> <li>• MIGRATE_WINDOWS_BLOCK</li> <li>• CLONE_VM</li> <li>• SYNC_LINUX_FILE</li> <li>• SYNC_LINUX_BLOCK</li> <li>• SYNC_WINDOWS_BLOCK</li> <li>• CONFIGURE_LINUX</li> <li>• CONFIGURE_LINUX_BLOCK</li> <li>• CONFIGURE_LINUX_FILE</li> <li>• CONFIGURE_WINDOWS</li> </ul> |
| progress      | 是    | Integer | 当前上报的子任务的最新百分比进度<br>最小值：0<br>最大值：100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| replicatesize | 是    | Long    | 当前任务已经复制的数据量大小（B）<br>最小值：0<br>最大值：<br><b>9223372036854775807</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| totalsize     | 是    | Long    | 当前任务的总迁移数据大小<br>最小值：0<br>最大值：<br><b>9223372036854775807</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| process_trace | 是    | String  | 迁移或同步时，具体的迁移详情<br>最小长度：0<br>最大长度：2048                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| 参数              | 是否必选 | 参数类型   | 描述                                                                       |
|-----------------|------|--------|--------------------------------------------------------------------------|
| migrate_speed   | 否    | Double | 实施迁移速率, 单位Mb/s<br>最小值: <b>0</b><br>最大值: <b>10000</b>                     |
| compress_rate   | 否    | Double | 实施文件压缩率<br>最小值: <b>0</b><br>最大值: <b>10000</b>                            |
| remain_time     | 否    | Long   | 剩余时间<br>最小值: <b>0</b><br>最大值: <b>2147483647</b>                          |
| total_cpu_usage | 否    | Double | 主机的CPU使用率, 0到100, 单位是百分比<br>最小值: <b>0</b><br>最大值: <b>100</b>             |
| agent_cpu_usage | 否    | Double | Agent的CPU使用率, 0到100, 单位是百分比<br>最小值: <b>0</b><br>最大值: <b>100</b>          |
| total_mem_usage | 否    | Double | 主机的内存使用值, 单位是MB<br>最小值: <b>0</b><br>最大值: <b>1048576.0</b>                |
| agent_mem_usage | 否    | Double | Agent的内存使用值, 单位是MB<br>最小值: <b>0</b><br>最大值: <b>1048576.0</b>             |
| total_disk_io   | 否    | Double | 主机的磁盘I/O值, 单位是MB/s<br>最小值: <b>0</b><br>最大值: <b>10000.0</b>               |
| agent_disk_io   | 否    | Double | Agent的磁盘I/O值, 单位是MB/s<br>最小值: <b>0</b><br>最大值: <b>10000.0</b>            |
| agent_time      | 否    | String | agent的当前时间, 用于超速检测, 因为限速值是可以分时间段设置的<br>最小长度: <b>0</b><br>最大长度: <b>30</b> |

## 响应参数

状态码： 200

表 5-185 响应 Body 参数

| 参数 | 参数类型   | 描述            |
|----|--------|---------------|
| -  | String | 上报数据迁移进度和速率成功 |

状态码： 403

表 5-186 响应 Body 参数

| 参数                         | 参数类型                            | 描述                                             |
|----------------------------|---------------------------------|------------------------------------------------|
| error_code                 | String                          | 错误代码<br>最小长度： 0<br>最大长度： 255                   |
| error_msg                  | String                          | 错误信息<br>最小长度： 0<br>最大长度： 255                   |
| encoded_authorized_message | String                          | 加密授权信息<br>最小长度： 0<br>最大长度： 65535               |
| error_param                | Array of strings                | 错误参数<br>最小长度： 0<br>最大长度： 65535<br>数组长度： 1 - 20 |
| details                    | Array of <b>details</b> objects | 详细错误信息<br>数组长度： 1 - 20                         |

表 5-187 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度： 0<br>最大长度： 65535 |
| error_msg  | String | SMS错误信息<br>最小长度： 0<br>最大长度： 65535 |

## 请求示例

上报具体的数据迁移进度，当前的子任务名称是ATTACH\_AGENT\_IMAGE，任务进度为100，当前任务总迁移数据大小为10000。

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

## 响应示例

**状态码： 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

上报具体的数据迁移进度，当前的子任务名称是ATTACH\_AGENT\_IMAGE，任务进度为100，当前任务总迁移数据大小为10000。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class UpdateTaskSpeedSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    }
}
```

```
String ak = System.getenv("CLOUD_SDK_AK");
String sk = System.getenv("CLOUD_SDK_SK");

ICredential auth = new GlobalCredentials()
    .withAk(ak)
    .withSk(sk);

SmsClient client = SmsClient.newBuilder()
    .withCredential(auth)
    .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
    .build();
UpdateTaskSpeedRequest request = new UpdateTaskSpeedRequest();
request.withTaskId("{task_id}");
UpdateTaskSpeedReq body = new UpdateTaskSpeedReq();
body.withProcessTrace("");
body.withTotalsize(100000L);
body.withReplicatesize(1000L);
body.withProgress(100);

body.withSubtaskName(UpdateTaskSpeedReq.SubtaskNameEnum.fromValue("ATTACH_AGENT_IMAGE"));
request.withBody(body);
try {
    UpdateTaskSpeedResponse response = client.updateTaskSpeed(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

## Python

上报具体的数据迁移进度，当前的子任务名称是ATTACH\_AGENT\_IMAGE，任务进度为100，当前任务总迁移数据大小为10000。

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateTaskSpeedRequest()
```

```
request.task_id = "{task_id}"
request.body = UpdateTaskSpeedReq(
    process_trace="",
    totalsize=100000,
    replicatesize=1000,
    progress=100,
    subtask_name="ATTACH_AGENT_IMAGE"
)
response = client.update_task_speed(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

上报具体的数据迁移进度，当前的子任务名称是ATTACH\_AGENT\_IMAGE，任务进度为100，当前任务总迁移数据大小为10000。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateTaskSpeedRequest{}
    request.TaskId = "{task_id}"
    request.Body = &model.UpdateTaskSpeedReq{
        ProcessTrace: "",
        Totalsize: int64(100000),
        Replicatesize: int64(1000),
        Progress: int32(100),
        SubtaskName: model.GetUpdateTaskSpeedReqSubtaskNameEnum().ATTACH_AGENT_IMAGE,
    }
    response, err := client.UpdateTaskSpeed(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```



## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述            |
|-----|---------------|
| 200 | 上报数据迁移进度和速率成功 |
| 403 | 鉴权失败          |

## 错误码

请参见[错误码](#)。

## 5.4.9 查询任务限速规则

### 功能介绍

按时间段查询迁移任务的迁移速率。

### 调用方法

请参见[如何调用API](#)。

### URI

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

表 5-188 路径参数

| 参数      | 是否必选 | 参数类型   | 描述                                |
|---------|------|--------|-----------------------------------|
| task_id | 是    | String | 查询限速信息的任务ID<br>最小长度：0<br>最大长度：255 |

## 请求参数

表 5-189 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                                 |
|--------------|------|--------|----------------------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度: 1<br>最大长度: 16384 |

## 响应参数

状态码: 200

表 5-190 响应 Body 参数

| 参数          | 参数类型                                            | 描述                          |
|-------------|-------------------------------------------------|-----------------------------|
| speed_limit | Array of <a href="#">SpeedLimitUson</a> objects | 按时间段限速信息<br>数组长度: 0 - 65535 |

表 5-191 SpeedLimitUson

| 参数    | 参数类型    | 描述                                                     |
|-------|---------|--------------------------------------------------------|
| start | String  | 时间段开始时间, 格式: XX:XX。<br>最小长度: 0<br>最大长度: 255            |
| end   | String  | 时间段结束时间, 格式: XX:XX。<br>最小长度: 0<br>最大长度: 255            |
| speed | Integer | 时间段的速率, 0-1000的整数, 单位: Mbit/s。<br>最小值: 0<br>最大值: 10000 |

| 参数                   | 参数类型   | 描述                                                                                                          |
|----------------------|--------|-------------------------------------------------------------------------------------------------------------|
| over_speed_threshold | Double | 停止迁移的超速阈值。是一个迁移速率的保护机制，超出该阈值会停止任务。它主要用于控制迁移过程中资源（特别是网络带宽）的消耗，确保系统的整体性能不受单一迁移任务影响 单位是百分比<br>最小值：0<br>最大值：100 |

状态码： 403

表 5-192 响应 Body 参数

| 参数                            | 参数类型                            | 描述                                          |
|-------------------------------|---------------------------------|---------------------------------------------|
| error_code                    | String                          | 错误代码<br>最小长度：0<br>最大长度：255                  |
| error_msg                     | String                          | 错误信息<br>最小长度：0<br>最大长度：255                  |
| encoded_authorization_message | String                          | 加密授权信息<br>最小长度：0<br>最大长度：65535              |
| error_param                   | Array of strings                | 错误参数<br>最小长度：0<br>最大长度：65535<br>数组长度：1 - 20 |
| details                       | Array of <b>details</b> objects | 详细错误信息<br>数组长度：1 - 20                       |

表 5-193 details

| 参数         | 参数类型   | 描述                              |
|------------|--------|---------------------------------|
| error_code | String | SMS错误代码<br>最小长度：0<br>最大长度：65535 |

| 参数        | 参数类型   | 描述                                |
|-----------|--------|-----------------------------------|
| error_msg | String | SMS错误信息<br>最小长度: 0<br>最大长度: 65535 |

## 请求示例

查询迁移速率

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

## 响应示例

**状态码: 200**

查询任务限速规则成功

```
{
  "speed_limit": [ {
    "start": "00:00",
    "end": "23:59",
    "speed": 1000,
    "over_speed_threshold": 50.0
  } ]
}
```

**状态码: 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;
```

```
public class ShowsSpeedLimitsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowsSpeedLimitsRequest request = new ShowsSpeedLimitsRequest();
        request.withTaskId("{task_id}");
        try {
            ShowsSpeedLimitsResponse response = client.showsSpeedLimits(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowsSpeedLimitsRequest()
        request.task_id = "{task_id}"
        response = client.shows_speed_limits(request)
```

```
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &modelShowsSpeedLimitsRequest{}
    request.TaskId = "{task_id}"
    response, err := clientShowsSpeedLimits(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述         |
|-----|------------|
| 200 | 查询任务限速规则成功 |
| 403 | 鉴权失败       |

## 错误码

请参见[错误码](#)。

## 5.4.10 设置迁移限速规则

### 功能介绍

设置迁移任务的迁移速率。

### 调用方法

请参见[如何调用API](#)。

### URI

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

表 5-194 路径参数

| 参数      | 是否必选 | 参数类型   | 描述                              |
|---------|------|--------|---------------------------------|
| task_id | 是    | String | 主机迁移任务的ID<br>最小长度：0<br>最大长度：255 |

### 请求参数

表 5-195 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                               |
|--------------|------|--------|--------------------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

表 5-196 请求 Body 参数

| 参数          | 是否必选 | 参数类型                                             | 描述                         |
|-------------|------|--------------------------------------------------|----------------------------|
| speed_limit | 是    | Array of <a href="#">SpeedLimitUs on</a> objects | 按时间段限速信息<br>数组长度：0 - 65535 |

表 5-197 SpeedLimitUson

| 参数                       | 是否必选 | 参数类型    | 描述                                                                                                          |
|--------------------------|------|---------|-------------------------------------------------------------------------------------------------------------|
| start                    | 是    | String  | 时间段开始时间，格式：XX:XX。<br>最小长度：0<br>最大长度：255                                                                     |
| end                      | 是    | String  | 时间段结束时间，格式：XX:XX。<br>最小长度：0<br>最大长度：255                                                                     |
| speed                    | 是    | Integer | 时间段的速率，0-1000的整数，单位：Mbit/s。<br>最小值：0<br>最大值：10000                                                           |
| over_speed_th<br>reshold | 否    | Double  | 停止迁移的超速阈值。是一个迁移速率的保护机制，超出该阈值会停止任务。它主要用于控制迁移过程中资源（特别是网络带宽）的消耗，确保系统的整体性能不受单一迁移任务影响 单位是百分比<br>最小值：0<br>最大值：100 |

## 响应参数

状态码： 200

表 5-198 响应 Body 参数

| 参数 | 参数类型   | 描述         |
|----|--------|------------|
| -  | String | 设置迁移限速规则成功 |

状态码： 403



表 5-199 响应 Body 参数

| 参数                         | 参数类型                            | 描述                                          |
|----------------------------|---------------------------------|---------------------------------------------|
| error_code                 | String                          | 错误代码<br>最小长度：0<br>最大长度：255                  |
| error_msg                  | String                          | 错误信息<br>最小长度：0<br>最大长度：255                  |
| encoded_authorized_message | String                          | 加密授权信息<br>最小长度：0<br>最大长度：65535              |
| error_param                | Array of strings                | 错误参数<br>最小长度：0<br>最大长度：65535<br>数组长度：1 - 20 |
| details                    | Array of <b>details</b> objects | 详细错误信息<br>数组长度：1 - 20                       |

表 5-200 details

| 参数         | 参数类型   | 描述                              |
|------------|--------|---------------------------------|
| error_code | String | SMS错误代码<br>最小长度：0<br>最大长度：65535 |
| error_msg  | String | SMS错误信息<br>最小长度：0<br>最大长度：65535 |

## 请求示例

- 设置迁移任务的迁移速率和停止迁移的阈值速率，0:00到8:00是20M/s，8:00到15:00是50M/s，15:00到23:59是25M/s。

POST https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbc12xxxx/speed-limit

```
{
  "speed_limit": [ {
    "start": "00:00",
    "end": "23:59",
    "speed": 1000,
    "over_speed_threshold": 50.0
  } ]
}
```

- 更新ID为a45a300b-86b5-4b13-8802-52274fa43016的迁移速率。

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
  } ]
}
```

## 响应示例

**状态码： 403**

鉴权失败

```
{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

- 设置迁移任务的迁移速率和停止迁移的阈值速率，0:00到8:00是20M/s，8:00到15:00是50M/s，15:00到23:59是25M/s。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateSpeedSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        environment variables and decrypted during use to ensure security.
    }
}
```

```
// In this example, AK and SK are stored in environment variables for authentication. Before
running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
environment
String ak = System.getenv("CLOUD_SDK_AK");
String sk = System.getenv("CLOUD_SDK_SK");

ICredential auth = new GlobalCredentials()
    .withAk(ak)
    .withSk(sk);

SmsClient client = SmsClient.newBuilder()
    .withCredential(auth)
    .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
    .build();
UpdateSpeedRequest request = new UpdateSpeedRequest();
request.withTaskId("{task_id}");
SpeedLimit body = new SpeedLimit();
List<SpeedLimitUson> listbodySpeedLimit = new ArrayList<>();
listbodySpeedLimit.add(
    new SpeedLimitUson()
        .withStart("00:00")
        .withEnd("23:59")
        .withSpeed(1000)
);
body.withSpeedLimit(listbodySpeedLimit);
request.withBody(body);
try {
    UpdateSpeedResponse response = client.updateSpeed(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

- 更新ID为a45a300b-86b5-4b13-8802-52274fa43016的迁移速率。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateSpeedSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before
        running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
        environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");
```

```

ICredential auth = new GlobalCredentials()
    .withAk(ak)
    .withSk(sk);

SmsClient client = SmsClient.newBuilder()
    .withCredential(auth)
    .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
    .build();
UpdateSpeedRequest request = new UpdateSpeedRequest();
request.withTaskId("{task_id}");
SpeedLimit body = new SpeedLimit();
List<SpeedLimitUson> listbodySpeedLimit = new ArrayList<>();
listbodySpeedLimit.add(
    new SpeedLimitUson()
        .withStart("0:00")
        .withEnd("8:00")
        .withSpeed(20)
);
listbodySpeedLimit.add(
    new SpeedLimitUson()
        .withStart("8:00")
        .withEnd("15:00")
        .withSpeed(50)
);
listbodySpeedLimit.add(
    new SpeedLimitUson()
        .withStart("15:00")
        .withEnd("23:59")
        .withSpeed(25)
);
body.withSpeedLimit(listbodySpeedLimit);
request.withBody(body);
try {
    UpdateSpeedResponse response = client.updateSpeed(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
}

```

## Python

- 设置迁移任务的迁移速率和停止迁移的阈值速率，0:00到8:00是20M/s，8:00到15:00是50M/s，15:00到23:59是25M/s。

```

# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    # security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    # environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before
    # running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    # environment

```

```

ak = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]

credentials = GlobalCredentials(ak, sk)

client = SmsClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(SmsRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = UpdateSpeedRequest()
    request.task_id = "{task_id}"
    listSpeedLimitbody = [
        SpeedLimitUjson(
            start="00:00",
            end="23:59",
            speed=1000
        )
    ]
    request.body = SpeedLimit(
        speed_limit=listSpeedLimitbody
    )
    response = client.update_speed(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)

```

- 更新ID为a45a300b-86b5-4b13-8802-52274fa43016的迁移速率。

```

# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    # security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    # environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before
    # running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    # environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateSpeedRequest()
        request.task_id = "{task_id}"
        listSpeedLimitbody = [
            SpeedLimitUjson(
                start="0:00",
                end="8:00",
                speed=20
            ),
            SpeedLimitUjson(
                start="8:00",
                end="15:00",
                speed=50
            )
        ]
        request.body = SpeedLimit(
            speed_limit=listSpeedLimitbody
        )
        response = client.update_speed(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)

```

```

    ),
    SpeedLimitUson(
        start="15:00",
        end="23:59",
        speed=25
    )
]
request.body = SpeedLimit(
    speed_limit=listSpeedLimitbody
)
response = client.update_speed(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)

```

## Go

- 设置迁移任务的迁移速率和停止迁移的阈值速率，0:00到8:00是20M/s，8:00到15:00是50M/s，15:00到23:59是25M/s。

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    // environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before
    // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    // environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateSpeedRequest{}
    request.TaskId = "{task_id}"
    var listSpeedLimitbody = []model.SpeedLimitUson{
        {
            Start: "00:00",
            End: "23:59",
            Speed: int32(1000),
        },
    }
    request.Body = &model.SpeedLimit{
        SpeedLimit: listSpeedLimitbody,
    }
    response, err := client.UpdateSpeed(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    }
}

```

```
    } else {
        fmt.Println(err)
    }
}
```

- 更新ID为a45a300b-86b5-4b13-8802-52274fa43016的迁移速率。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    // environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before
    // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    // environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateSpeedRequest{}
    request.TaskId = "{task_id}"
    var listSpeedLimitbody = []model.SpeedLimitUson{
        {
            Start: "0:00",
            End: "8:00",
            Speed: int32(20),
        },
        {
            Start: "8:00",
            End: "15:00",
            Speed: int32(50),
        },
        {
            Start: "15:00",
            End: "23:59",
            Speed: int32(25),
        },
    }
    request.Body = &model.SpeedLimit{
        SpeedLimit: listSpeedLimitbody,
    }
    response, err := client.UpdateSpeed(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述         |
|-----|------------|
| 200 | 设置迁移限速规则成功 |
| 403 | 鉴权失败       |

## 错误码

请参见[错误码](#)。

## 5.4.11 解锁指定任务的端服务器

### 功能介绍

解锁指定任务的端服务器。

### 调用方法

请参见[如何调用API](#)。

### URI

POST /v3/tasks/{task\_id}/unlock

表 5-201 路径参数

| 参数      | 是否必选 | 参数类型   | 描述                            |
|---------|------|--------|-------------------------------|
| task_id | 是    | String | 指定任务的ID<br>最小长度：0<br>最大长度：255 |



## 请求参数

表 5-202 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                   |
|--------------|------|--------|--------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | 用户Token。<br>通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

## 响应参数

状态码： 200

表 5-203 响应 Body 参数

| 参数 | 参数类型   | 描述              |
|----|--------|-----------------|
| -  | String | 解锁指定任务的目的端服务器成功 |

状态码： 403

表 5-204 响应 Body 参数

| 参数                            | 参数类型             | 描述                                          |
|-------------------------------|------------------|---------------------------------------------|
| error_code                    | String           | 错误代码<br>最小长度：0<br>最大长度：255                  |
| error_msg                     | String           | 错误信息<br>最小长度：0<br>最大长度：255                  |
| encoded_authorization_message | String           | 加密授权信息<br>最小长度：0<br>最大长度：65535              |
| error_param                   | Array of strings | 错误参数<br>最小长度：0<br>最大长度：65535<br>数组长度：1 - 20 |

| 参数      | 参数类型                            | 描述                     |
|---------|---------------------------------|------------------------|
| details | Array of <b>details</b> objects | 详细错误信息<br>数组长度: 1 - 20 |

表 5-205 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度: 0<br>最大长度: 65535 |
| error_msg  | String | SMS错误信息<br>最小长度: 0<br>最大长度: 65535 |

## 请求示例

解锁目的端服务器，待解锁目的端服务器的任务ID是7a9a9540-ff28-4869-b9e4-855fbe12xxxx

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

## 响应示例

**状态码: 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
```

```
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class UnlockTargetEcsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        UnlockTargetEcsRequest request = new UnlockTargetEcsRequest();
        request.withTaskId("{task_id}");
        try {
            UnlockTargetEcsResponse response = client.unlockTargetEcs(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()
```

```
try:
    request = UnlockTargetEcsRequest()
    request.task_id = "{task_id}"
    response = client.unlock_target_ecs(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UnlockTargetEcsRequest{}
    request.TaskId = "{task_id}"
    response, err := client.UnlockTargetEcs(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述              |
|-----|-----------------|
| 200 | 解锁指定任务的目的端服务器成功 |

| 状态码 | 描述   |
|-----|------|
| 403 | 鉴权失败 |

## 错误码

请参见[错误码](#)。

## 5.4.12 检查网卡安全组端口是否符合要求

### 功能介绍

检查网卡安全组。

### 调用方法

请参见[如何调用API](#)。

### URI

GET /v3/tasks/{t\_project\_id}/networkacl/{t\_network\_id}/check

表 5-206 路径参数

| 参数           | 是否必选 | 参数类型   | 描述                                      |
|--------------|------|--------|-----------------------------------------|
| t_project_id | 是    | String | 目的虚拟机所属project_id<br>最小长度：0<br>最大长度：255 |
| t_network_id | 是    | String | 目的端子网ID<br>最小长度：0<br>最大长度：255           |

表 5-207 Query 参数

| 参数        | 是否必选 | 参数类型   | 描述                           |
|-----------|------|--------|------------------------------|
| region_id | 是    | String | 区域ID<br>最小长度：0<br>最大长度：255   |
| os_type   | 是    | String | 操作系统类型<br>最小长度：0<br>最大长度：255 |

## 请求参数

表 5-208 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                   |
|--------------|------|--------|--------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | 用户Token。<br>通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

## 响应参数

状态码： 200

表 5-209 响应 Body 参数

| 参数 | 参数类型   | 描述                |
|----|--------|-------------------|
| -  | String | 检查网卡安全组端口是否符合要求成功 |

状态码： 403

表 5-210 响应 Body 参数

| 参数                            | 参数类型             | 描述                                          |
|-------------------------------|------------------|---------------------------------------------|
| error_code                    | String           | 错误代码<br>最小长度：0<br>最大长度：255                  |
| error_msg                     | String           | 错误信息<br>最小长度：0<br>最大长度：255                  |
| encoded_authorization_message | String           | 加密授权信息<br>最小长度：0<br>最大长度：65535              |
| error_param                   | Array of strings | 错误参数<br>最小长度：0<br>最大长度：65535<br>数组长度：1 - 20 |

| 参数      | 参数类型                            | 描述                     |
|---------|---------------------------------|------------------------|
| details | Array of <b>details</b> objects | 详细错误信息<br>数组长度: 1 - 20 |

表 5-211 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度: 0<br>最大长度: 65535 |
| error_msg  | String | SMS错误信息<br>最小长度: 0<br>最大长度: 65535 |

## 请求示例

检查网卡安全组

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

## 响应示例

状态码: 403

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
```

```
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class CheckNetAclSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        CheckNetAclRequest request = new CheckNetAclRequest();
        request.withTProjectId("{t_project_id}");
        request.withTNetworkId("{t_network_id}");
        try {
            CheckNetAclResponse response = client.checkNetAcl(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
```



```
.build()

try:
    request = CheckNetAclRequest()
    request.t_project_id = "{t_project_id}"
    request.t_network_id = "{t_network_id}"
    response = client.check_net_acl(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CheckNetAclRequest{}
    request.TProjectId = "{t_project_id}"
    request.TNetworkId = "{t_network_id}"
    response, err := client.CheckNetAcl(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述                |
|-----|-------------------|
| 200 | 检查网卡安全组端口是否符合要求成功 |
| 403 | 鉴权失败              |

## 错误码

请参见[错误码](#)。

### 5.4.13 查询指定任务 ID 的安全传输通道的证书 passphrase

#### 功能介绍

查询指定任务ID的安全传输通道的证书passphrase。

#### 调用方法

请参见[如何调用API](#)。

#### URI

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

表 5-212 路径参数

| 参数      | 是否必选 | 参数类型   | 描述                         |
|---------|------|--------|----------------------------|
| task_id | 是    | String | 任务ID<br>最小长度：0<br>最大长度：255 |

#### 请求参数

表 5-213 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                               |
|--------------|------|--------|----------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | 用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

## 响应参数

状态码： 200

表 5-214 响应 Body 参数

| 参数         | 参数类型   | 描述                                         |
|------------|--------|--------------------------------------------|
| task_id    | String | 任务ID<br>最小长度： 0<br>最大长度： 255               |
| passphrase | String | 安全传输通道证书passphrase<br>最小长度： 0<br>最大长度： 255 |

状态码： 403

表 5-215 响应 Body 参数

| 参数                            | 参数类型                            | 描述                                             |
|-------------------------------|---------------------------------|------------------------------------------------|
| error_code                    | String                          | 错误代码<br>最小长度： 0<br>最大长度： 255                   |
| error_msg                     | String                          | 错误信息<br>最小长度： 0<br>最大长度： 255                   |
| encoded_authorization_message | String                          | 加密授权信息<br>最小长度： 0<br>最大长度： 65535               |
| error_param                   | Array of strings                | 错误参数<br>最小长度： 0<br>最大长度： 65535<br>数组长度： 1 - 20 |
| details                       | Array of <b>details</b> objects | 详细错误信息<br>数组长度： 1 - 20                         |

表 5-216 details

| 参数         | 参数类型   | 描述                              |
|------------|--------|---------------------------------|
| error_code | String | SMS错误代码<br>最小长度：0<br>最大长度：65535 |
| error_msg  | String | SMS错误信息<br>最小长度：0<br>最大长度：65535 |

## 请求示例

查询任务ID为d7fa81b9-c174-4c0a-a475-51a54c8af8a4的安全传输通道的证书 passphrase

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

## 响应示例

**状态码： 200**

请求正常时返回值

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

**状态码： 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
```

```
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ShowPassphraseSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowPassphraseRequest request = new ShowPassphraseRequest();
        request.withTaskId("{task_id}");
        try {
            ShowPassphraseResponse response = client.showPassphrase(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()
```

```
try:
    request = ShowPassphraseRequest()
    request.task_id = "{task_id}"
    response = client.show_passphrase(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowPassphraseRequest{}
    request.TaskId = "{task_id}"
    response, err := client.ShowPassphrase(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述       |
|-----|----------|
| 200 | 请求正常时返回值 |
| 403 | 鉴权失败     |

## 错误码

请参见[错误码](#)。

## 5.4.14 上传迁移任务的日志

### 功能介绍

上传迁移任务的日志。

### 调用方法

请参见[如何调用API](#)。

### URI

POST /v3/tasks/{task\_id}/log

表 5-217 路径参数

| 参数      | 是否必选 | 参数类型   | 描述                           |
|---------|------|--------|------------------------------|
| task_id | 是    | String | 迁移任务ID<br>最小长度：0<br>最大长度：255 |

### 请求参数

表 5-218 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                              |
|--------------|------|--------|---------------------------------|
| X-Auth-Token | 是    | String | 用户Token<br>最小长度：1<br>最大长度：16384 |

表 5-219 请求 Body 参数

| 参数         | 是否必选 | 参数类型   | 描述                          |
|------------|------|--------|-----------------------------|
| log_bucket | 是    | String | 指定桶名称<br>最小长度：0<br>最大长度：255 |

| 参数         | 是否必选 | 参数类型    | 描述                            |
|------------|------|---------|-------------------------------|
| log_expire | 是    | Integer | 指定有效期<br>最小值：300<br>最大值：64800 |

## 响应参数

状态码：200

表 5-220 响应 Body 参数

| 参数 | 参数类型   | 描述          |
|----|--------|-------------|
| -  | String | 上传迁移任务的日志成功 |

## 请求示例

上传迁移任务的日志到桶名称为centos的桶内，有效期是300秒

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

## 响应示例

无

## SDK 代码示例

SDK代码示例如下。

### Java

上传迁移任务的日志到桶名称为centos的桶内，有效期是300秒

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class CollectLogSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
```



security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.

// In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD\_SDK\_AK and CLOUD\_SDK\_SK in the local environment

```
String ak = System.getenv("CLOUD_SDK_AK");
String sk = System.getenv("CLOUD_SDK_SK");

ICredential auth = new GlobalCredentials()
    .withAk(ak)
    .withSk(sk);

SmsClient client = SmsClient.newBuilder()
    .withCredential(auth)
    .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
    .build();
CollectLogRequest request = new CollectLogRequest();
request.withTaskId("{task_id}");
UploadLogRequestBody body = new UploadLogRequestBody();
body.withLogExpire(300);
body.withLogBucket("centos");
request.withBody(body);
try {
    CollectLogResponse response = client.collectLog(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

## Python

上传迁移任务的日志到桶名称为centos的桶内，有效期是300秒

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CollectLogRequest()
        request.task_id = "{task_id}"
```

```
request.body = UploadLogRequestBody(  
    log_expire=300,  
    log_bucket="centtos"  
)  
response = client.collect_log(request)  
print(response)  
except exceptions.ClientRequestException as e:  
    print(e.status_code)  
    print(e.request_id)  
    print(e.error_code)  
    print(e.error_msg)
```

## Go

上传迁移任务的日志到桶名称为centos的桶内，有效期是300秒

```
package main  
  
import (  
    "fmt"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"  
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := global.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := sms.NewSmsClient(  
        sms.SmsClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.CollectLogRequest{}  
    request.TaskId = "{task_id}"  
    request.Body = &model.UploadLogRequestBody{  
        LogExpire: int32(300),  
        LogBucket: "centtos",  
    }  
    response, err := client.CollectLog(request)  
    if err == nil {  
        fmt.Printf("%+v\n", response)  
    } else {  
        fmt.Println(err)  
    }  
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述          |
|-----|-------------|
| 200 | 上传迁移任务的日志成功 |

## 错误码

请参见[错误码](#)。

## 5.4.15 获取一致性校验结果

### 功能介绍

获取一致性校验结果简报

### 调用方法

请参见[如何调用API](#)。

### URI

GET /v3/tasks/{task\_id}/consistency-result

表 5-221 路径参数

| 参数      | 是否必选 | 参数类型   | 描述                         |
|---------|------|--------|----------------------------|
| task_id | 是    | String | 任务id<br>最小长度：0<br>最大长度：255 |

### 请求参数

表 5-222 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                               |
|--------------|------|--------|----------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | 用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

## 响应参数

状态码： 200

表 5-223 响应 Body 参数

| 参数          | 参数类型                                         | 描述        |
|-------------|----------------------------------------------|-----------|
| result_list | Array of <a href="#">result_list</a> objects | 一致性校验结果列表 |
| task_id     | String                                       | 任务id      |

表 5-224 result\_list

| 参数                 | 参数类型                                               | 描述     |
|--------------------|----------------------------------------------------|--------|
| finished_time      | Long                                               | 校验完成时间 |
| check_result       | String                                             | 校验结果   |
| consistency_result | Array of <a href="#">ConsistencyResult</a> objects | 校验结果   |

表 5-225 ConsistencyResult

| 参数                    | 参数类型    | 描述                                  |
|-----------------------|---------|-------------------------------------|
| dir_check             | String  | 校验目录<br>最小长度： 0<br>最大长度： 1024       |
| num_total_files       | Integer | 文件总数<br>最小值： 0<br>最大值： 1000000      |
| num_different_files   | Integer | 差异文件数量<br>最小值： 0<br>最大值： 1000000    |
| num_target_miss_files | Integer | 目的端缺少文件数量<br>最小值： 0<br>最大值： 1000000 |
| num_target_more_files | Integer | 目的端多余文件数量<br>最小值： 0<br>最大值： 1000000 |

**状态码： 400**

**表 5-226 响应 Body 参数**

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度： 0<br>最大长度： 255   |
| error_msg  | String | 错误信息<br>最小长度： 0<br>最大长度： 1024 |

**状态码： 403**

**表 5-227 响应 Body 参数**

| 参数                         | 参数类型                            | 描述                                             |
|----------------------------|---------------------------------|------------------------------------------------|
| error_code                 | String                          | 错误代码<br>最小长度： 0<br>最大长度： 255                   |
| error_msg                  | String                          | 错误信息<br>最小长度： 0<br>最大长度： 255                   |
| encoded_authorized_message | String                          | 加密授权信息<br>最小长度： 0<br>最大长度： 65535               |
| error_param                | Array of strings                | 错误参数<br>最小长度： 0<br>最大长度： 65535<br>数组长度： 1 - 20 |
| details                    | Array of <b>details</b> objects | 详细错误信息<br>数组长度： 1 - 20                         |

表 5-228 details

| 参数         | 参数类型   | 描述                              |
|------------|--------|---------------------------------|
| error_code | String | SMS错误代码<br>最小长度：0<br>最大长度：65535 |
| error_msg  | String | SMS错误信息<br>最小长度：0<br>最大长度：65535 |

状态码：404

表 5-229 响应 Body 参数

| 参数         | 参数类型   | 描述                          |
|------------|--------|-----------------------------|
| error_code | String | 错误码<br>最小长度：0<br>最大长度：255   |
| error_msg  | String | 错误信息<br>最小长度：0<br>最大长度：1024 |

状态码：500

表 5-230 响应 Body 参数

| 参数         | 参数类型   | 描述                          |
|------------|--------|-----------------------------|
| error_code | String | 错误码<br>最小长度：0<br>最大长度：255   |
| error_msg  | String | 错误信息<br>最小长度：0<br>最大长度：1024 |

## 请求示例

获取任务ID为137224b7-8d7c-4919-b33e-ed159778xxxx 的一致性校验结果简报

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

## 响应示例

### 状态码： 200

获取一致性校验结果成功。

```
{
  "result_list": [ {
    "finished_time": 1736854315000,
    "check_result": "success",
    "consistency_result": [ {
      "dir_check": "/root/sync",
      "num_total_files": 1,
      "num_different_files": 0,
      "num_target_miss_files": 0,
      "num_target_more_files": 0
    } ]
  } ],
  "task_id": "7861c7ab-06c0-4b23-a350-00e5ed361fbb"
}
```

### 状态码： 403

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ShowConsistencyResultSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
```

```

        .withAk(ak)
        .withSk(sk);

    SmsClient client = SmsClient.newBuilder()
        .withCredential(auth)
        .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
        .build();
    ShowConsistencyResultRequest request = new ShowConsistencyResultRequest();
    request.withTaskId("{task_id}");
    try {
        ShowConsistencyResultResponse response = client.showConsistencyResult(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
}

```

## Python

```

# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowConsistencyResultRequest()
        request.task_id = "{task_id}"
        response = client.show_consistency_result(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)

```

## Go

```

package main

import (
    "fmt"

```



```

"github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
"github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowConsistencyResultRequest{}
    request.TaskId = "{task_id}"
    response, err := client.ShowConsistencyResult(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}

```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述           |
|-----|--------------|
| 200 | 获取一致性校验结果成功。 |
| 400 | 缺少请求参数。      |
| 403 | 鉴权失败         |
| 404 | 任务不存在        |
| 500 | 获取一致性校验结果失败。 |

## 错误码

请参见[错误码](#)。

## 5.4.16 上传一致性校验结果

### 功能介绍

Agent 上传一致性校验结果简报

### 调用方法

请参见[如何调用API](#)。

### URI

POST /v3/tasks/{task\_id}/consistency-result

表 5-231 路径参数

| 参数      | 是否必选 | 参数类型   | 描述                         |
|---------|------|--------|----------------------------|
| task_id | 是    | String | 任务id<br>最小长度：0<br>最大长度：255 |

### 请求参数

表 5-232 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                               |
|--------------|------|--------|----------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | 用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

表 5-233 请求 Body 参数

| 参数                 | 是否必选 | 参数类型                                               | 描述      |
|--------------------|------|----------------------------------------------------|---------|
| consistency_result | 否    | Array of <a href="#">ConsistencyResult</a> objects | 一致性校验结果 |

表 5-234 ConsistencyResult

| 参数                    | 是否必选 | 参数类型    | 描述                                |
|-----------------------|------|---------|-----------------------------------|
| dir_check             | 是    | String  | 校验目录<br>最小长度：0<br>最大长度：1024       |
| num_total_files       | 是    | Integer | 文件总数<br>最小值：0<br>最大值：1000000      |
| num_different_files   | 是    | Integer | 差异文件数量<br>最小值：0<br>最大值：1000000    |
| num_target_miss_files | 是    | Integer | 目的端缺少文件数量<br>最小值：0<br>最大值：1000000 |
| num_target_more_files | 是    | Integer | 目的端多余文件数量<br>最小值：0<br>最大值：1000000 |

## 响应参数

状态码：200

表 5-235 响应 Body 参数

| 参数 | 参数类型   | 描述           |
|----|--------|--------------|
| -  | String | 更新一致性校验结果成功。 |

状态码：400

表 5-236 响应 Body 参数

| 参数         | 参数类型   | 描述                          |
|------------|--------|-----------------------------|
| error_code | String | 错误码<br>最小长度：0<br>最大长度：255   |
| error_msg  | String | 错误信息<br>最小长度：0<br>最大长度：1024 |

状态码： 403

表 5-237 响应 Body 参数

| 参数                         | 参数类型                            | 描述                                             |
|----------------------------|---------------------------------|------------------------------------------------|
| error_code                 | String                          | 错误代码<br>最小长度： 0<br>最大长度： 255                   |
| error_msg                  | String                          | 错误信息<br>最小长度： 0<br>最大长度： 255                   |
| encoded_authorized_message | String                          | 加密授权信息<br>最小长度： 0<br>最大长度： 65535               |
| error_param                | Array of strings                | 错误参数<br>最小长度： 0<br>最大长度： 65535<br>数组长度： 1 - 20 |
| details                    | Array of <b>details</b> objects | 详细错误信息<br>数组长度： 1 - 20                         |

表 5-238 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度： 0<br>最大长度： 65535 |
| error_msg  | String | SMS错误信息<br>最小长度： 0<br>最大长度： 65535 |

状态码： 404

表 5-239 响应 Body 参数

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度: 0<br>最大长度: 255   |
| error_msg  | String | 错误信息<br>最小长度: 0<br>最大长度: 1024 |

状态码: 500

表 5-240 响应 Body 参数

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度: 0<br>最大长度: 255   |
| error_msg  | String | 错误信息<br>最小长度: 0<br>最大长度: 1024 |

## 请求示例

更新任务ID为137224b7-8d7c-4919-b33e-ed159778xxxx 的一致性校验结果简报

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

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

## 响应示例

状态码: 200

更新一致性校验结果成功。

```
{ }
```

### 状态码： 403

#### 鉴权失败

```
{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have
permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

更新任务ID为137224b7-8d7c-4919-b33e-ed159778xxxx 的一致性校验结果简报

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateConsistencyResultSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateConsistencyResultRequest request = new UpdateConsistencyResultRequest();
        request.withTaskId("{task_id}");
        ConsistencyResultRequestBody body = new ConsistencyResultRequestBody();
        List<ConsistencyResult> listbodyConsistencyResult = new ArrayList<>();
        listbodyConsistencyResult.add(
            new ConsistencyResult()
                .withDirCheck("/root/data")
                .withNumTotalFiles(1235)
        );
    }
}
```

```
        .withNumDifferentFiles(12)
        .withNumTargetMissFiles(12)
        .withNumTargetMoreFiles(12)
    );
    listbodyConsistencyResult.add(
        new ConsistencyResult()
            .withDirCheck("/var")
            .withNumTotalFiles(1235)
            .withNumDifferentFiles(12)
            .withNumTargetMissFiles(12)
            .withNumTargetMoreFiles(12)
    );
    body.withConsistencyResult(listbodyConsistencyResult);
    request.withBody(body);
    try {
        UpdateConsistencyResultResponse response = client.updateConsistencyResult(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

## Python

更新任务ID为137224b7-8d7c-4919-b33e-ed159778xxxx 的一致性校验结果简报

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateConsistencyResultRequest()
        request.task_id = "{task_id}"
        listConsistencyResultbody = [
            ConsistencyResult(
                dir_check="/root/data",
                num_total_files=1235,
                num_different_files=12,
                num_target_miss_files=12,
                num_target_more_files=12
            )
        ]
```

```
    ),
    ConsistencyResult(
        dir_check="/var",
        num_total_files=1235,
        num_different_files=12,
        num_target_miss_files=12,
        num_target_more_files=12
    )
]
request.body = ConsistencyResultRequestBody(
    consistency_result=listConsistencyResultbody
)
response = client.update_consistency_result(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

### 更新任务ID为137224b7-8d7c-4919-b33e-ed159778xxxx 的一致性校验结果简报

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateConsistencyResultRequest{}
    request.TaskId = "{task_id}"
    var listConsistencyResultbody = []model.ConsistencyResult{
        {
            DirCheck: "/root/data",
            NumTotalFiles: int32(1235),
            NumDifferentFiles: int32(12),
            NumTargetMissFiles: int32(12),
            NumTargetMoreFiles: int32(12),
        },
        {
            DirCheck: "/var",
            NumTotalFiles: int32(1235),
            NumDifferentFiles: int32(12),
            NumTargetMissFiles: int32(12),
        }
    }
}
```



```

        NumTargetMoreFiles: int32(12),
    },
}
request.Body = &model.ConsistencyResultRequestBody{
    ConsistencyResult: listConsistencyResultbody,
}
response, err := client.UpdateConsistencyResult(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}

```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述           |
|-----|--------------|
| 200 | 更新一致性校验结果成功。 |
| 400 | 缺少请求参数。      |
| 403 | 鉴权失败         |
| 404 | 任务不存在        |
| 500 | 上传一致性校验结果失败。 |

## 错误码

请参见[错误码](#)。

## 5.5 命令管理

### 5.5.1 获取服务端命令

#### 功能介绍

迁移Agent调用该接口从SMS服务端获取下发给指定源端迁移Agent的命令。

#### 调用方法

请参见[如何调用API](#)。

#### URI

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

表 5-241 路径参数

| 参数        | 是否必选 | 参数类型   | 描述                               |
|-----------|------|--------|----------------------------------|
| server_id | 是    | String | 命令对应的服务器ID<br>最小长度：0<br>最大长度：255 |

## 请求参数

表 5-242 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                               |
|--------------|------|--------|--------------------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

## 响应参数

状态码：200

表 5-243 响应 Body 参数

| 参数            | 参数类型               | 描述                                                   |
|---------------|--------------------|------------------------------------------------------|
| command_name  | String             | 命令名称，分为：START、STOP、DELETE、SYNC<br>最小长度：0<br>最大长度：255 |
| command_param | ComandParam object | 命令响应参数                                               |

表 5-244 ComandParam

| 参数      | 参数类型   | 描述                         |
|---------|--------|----------------------------|
| task_id | String | 任务ID<br>最小长度：0<br>最大长度：255 |

| 参数     | 参数类型   | 描述                         |
|--------|--------|----------------------------|
| bucket | String | 桶名<br>最小长度: 0<br>最大长度: 255 |

状态码: 400

表 5-245 响应 Body 参数

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度: 0<br>最大长度: 255   |
| error_msg  | String | 错误信息<br>最小长度: 0<br>最大长度: 1024 |

状态码: 401

表 5-246 响应 Body 参数

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度: 0<br>最大长度: 255   |
| error_msg  | String | 错误信息<br>最小长度: 0<br>最大长度: 1024 |

状态码: 403

表 5-247 响应 Body 参数

| 参数         | 参数类型   | 描述                           |
|------------|--------|------------------------------|
| error_code | String | 错误代码<br>最小长度: 0<br>最大长度: 255 |

| 参数                            | 参数类型                            | 描述                                             |
|-------------------------------|---------------------------------|------------------------------------------------|
| error_msg                     | String                          | 错误信息<br>最小长度: 0<br>最大长度: 255                   |
| encoded_authorization_message | String                          | 加密授权信息<br>最小长度: 0<br>最大长度: 65535               |
| error_param                   | Array of strings                | 错误参数<br>最小长度: 0<br>最大长度: 65535<br>数组长度: 1 - 20 |
| details                       | Array of <b>details</b> objects | 详细错误信息<br>数组长度: 1 - 20                         |

表 5-248 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度: 0<br>最大长度: 65535 |
| error_msg  | String | SMS错误信息<br>最小长度: 0<br>最大长度: 65535 |

状态码: 404

表 5-249 响应 Body 参数

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度: 0<br>最大长度: 255   |
| error_msg  | String | 错误信息<br>最小长度: 0<br>最大长度: 1024 |

**状态码： 500**

表 5-250 响应 Body 参数

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度： 0<br>最大长度： 255   |
| error_msg  | String | 错误信息<br>最小长度： 0<br>最大长度： 1024 |

**请求示例**

获取ID为f32ab4d6-d150-4fb3-aa55-edbb5cf9947f的源端的当前需要执行的命令

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

**响应示例**

**状态码： 200**

获取服务端命令成功

```
{
  "command_name": "START",
  "command_param": {
    "task_id": "xxxxxxxxxxxxxxxxxxxxxxxx00000001"
  }
}
```

**状态码： 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

**状态码**

| 状态码 | 描述          |
|-----|-------------|
| 200 | 获取服务端命令成功   |
| 400 | Bad Request |

| 状态码 | 描述                    |
|-----|-----------------------|
| 401 | Unauthorized          |
| 403 | 鉴权失败                  |
| 404 | Not Found             |
| 500 | Internal Server Error |

## 错误码

请参见[错误码](#)。

## 5.5.2 上报服务端命令执行结果

### 功能介绍

迁移Agent调用该接口向SMS服务端反馈指定指令的执行结果。

### 调用方法

请参见[如何调用API](#)。

### URI

POST /v3/sources/{server\_id}/command\_result

表 5-251 路径参数

| 参数        | 是否必选 | 参数类型   | 描述                                         |
|-----------|------|--------|--------------------------------------------|
| server_id | 是    | String | 上报命令执行结果的命令所对应的服务端ID<br>最小长度：0<br>最大长度：255 |

## 请求参数

表 5-252 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                               |
|--------------|------|--------|--------------------------------------------------------------------------------------------------|
| X-Auth-Token | 否    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

表 5-253 请求 Body 参数

| 参数            | 是否必选 | 参数类型   | 描述                                                                           |
|---------------|------|--------|------------------------------------------------------------------------------|
| command_name  | 是    | String | 命令名称，分为：START、STOP、DELETE、SYNC、UPLOAD_LOG、RSET_LOG_ACL<br>最小长度：0<br>最大长度：255 |
| result        | 是    | String | 命令执行结果<br>□ success代表执行命令成功<br>□ fail代表命令执行失败<br>最小长度：0<br>最大长度：255          |
| result_detail | 是    | Object | JSON格式的命令执行结果，只用于保存数据库，没有其他作用                                                |

## 响应参数

状态码：200

表 5-254 响应 Body 参数

| 参数 | 参数类型   | 描述            |
|----|--------|---------------|
| -  | String | 上报服务端命令执行结果成功 |

状态码：400

表 5-255 响应 Body 参数

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度: 0<br>最大长度: 255   |
| error_msg  | String | 错误信息<br>最小长度: 0<br>最大长度: 1024 |

状态码: 401

表 5-256 响应 Body 参数

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度: 0<br>最大长度: 255   |
| error_msg  | String | 错误信息<br>最小长度: 0<br>最大长度: 1024 |

状态码: 403

表 5-257 响应 Body 参数

| 参数                         | 参数类型   | 描述                               |
|----------------------------|--------|----------------------------------|
| error_code                 | String | 错误代码<br>最小长度: 0<br>最大长度: 255     |
| error_msg                  | String | 错误信息<br>最小长度: 0<br>最大长度: 255     |
| encoded_authorized_message | String | 加密授权信息<br>最小长度: 0<br>最大长度: 65535 |



| 参数          | 参数类型                                     | 描述                                             |
|-------------|------------------------------------------|------------------------------------------------|
| error_param | Array of strings                         | 错误参数<br>最小长度: 0<br>最大长度: 65535<br>数组长度: 1 - 20 |
| details     | Array of <a href="#">details</a> objects | 详细错误信息<br>数组长度: 1 - 20                         |

表 5-258 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度: 0<br>最大长度: 65535 |
| error_msg  | String | SMS错误信息<br>最小长度: 0<br>最大长度: 65535 |

状态码: 404

表 5-259 响应 Body 参数

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度: 0<br>最大长度: 255   |
| error_msg  | String | 错误信息<br>最小长度: 0<br>最大长度: 1024 |

状态码: 500

表 5-260 响应 Body 参数

| 参数         | 参数类型   | 描述                          |
|------------|--------|-----------------------------|
| error_code | String | 错误码<br>最小长度：0<br>最大长度：255   |
| error_msg  | String | 错误信息<br>最小长度：0<br>最大长度：1024 |

## 请求示例

反馈指定指令的执行结果给SMS服务端。指令为START，执行结果是“success”。

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

## 响应示例

**状态码：403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

反馈指定指令的执行结果给SMS服务端。指令为START，执行结果是“success”。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
```

```
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class UpdateCommandResultSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateCommandResultRequest request = new UpdateCommandResultRequest();
        request.withServerId("{server_id}");
        CommandBody body = new CommandBody();
        body.withResultDetail("{\"msg\":\"xxx\"}");
        body.withResult("success");
        body.withCommandName("START");
        request.withBody(body);
        try {
            UpdateCommandResultResponse response = client.updateCommandResult(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

反馈指定指令的执行结果给SMS服务端。指令为START，执行结果是“success”。

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")
```

```

credentials = GlobalCredentials(ak, sk)

client = SmsClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(SmsRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = UpdateCommandResultRequest()
    request.server_id = "{server_id}"
    request.body = CommandBody(
        result_detail="{\"msg\": \"xxx\"}",
        result="success",
        command_name="START"
    )
    response = client.update_command_result(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)

```

## Go

反馈指定指令的执行结果给SMS服务端。指令为START，执行结果是“success”。

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateCommandResultRequest{}
    request.ServerId = "{server_id}"
    var resultDetailCommandBody interface{} = "{\"msg\": \"xxx\"}"
    request.Body = &model.CommandBody{
        ResultDetail: &resultDetailCommandBody,
        Result: "success",
        CommandName: "START",
    }
    response, err := client.UpdateCommandResult(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {

```

```
    fmt.Println(err)
  }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述                    |
|-----|-----------------------|
| 200 | 上报服务端命令执行结果成功         |
| 400 | Bad Request           |
| 401 | Unauthorized          |
| 403 | 鉴权失败                  |
| 404 | Not Found             |
| 500 | Internal Server Error |

## 错误码

请参见[错误码](#)。

## 5.6 模板管理

### 5.6.1 新增模板信息

#### 功能介绍

新增源端模板信息。

#### 调用方法

请参见[如何调用API](#)。

#### URI

POST /v3/vm/templates

## 请求参数

表 5-261 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                               |
|--------------|------|--------|--------------------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

表 5-262 请求 Body 参数

| 参数       | 是否必选 | 参数类型                   | 描述   |
|----------|------|------------------------|------|
| template | 是    | TemplateRequest object | 模板信息 |

表 5-263 TemplateRequest

| 参数                 | 是否必选 | 参数类型    | 描述                             |
|--------------------|------|---------|--------------------------------|
| name               | 是    | String  | 模板名称<br>最小长度：0<br>最大长度：255     |
| is_template        | 是    | Boolean | 是否是通用模板，如果模板关联一个任务，则不算通用模板     |
| region             | 是    | String  | Region信息<br>最小长度：0<br>最大长度：255 |
| projectid          | 是    | String  | 项目ID<br>最小长度：0<br>最大长度：255     |
| target_server_name | 否    | String  | 目标端服务器名称<br>最小长度：0<br>最大长度：255 |
| availability_zone  | 否    | String  | 可用区<br>最小长度：0<br>最大长度：255      |

| 参数               | 是否必选 | 参数类型                             | 描述                                                                                                                                                 |
|------------------|------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| volumetype       | 否    | String                           | 磁盘类型<br>SAS:串行连接SCSI<br>SSD:固态硬盘<br>SATA:串口硬盘<br>枚举值:<br><ul style="list-style-type: none"> <li>• SAS</li> <li>• SSD</li> <li>• SATA</li> </ul>    |
| flavor           | 否    | String                           | 虚拟机规格<br>最小长度: 0<br>最大长度: 65535                                                                                                                    |
| vpc              | 否    | VpcObject<br>object              | vpc对象                                                                                                                                              |
| nics             | 否    | Array of Nics<br>objects         | 网卡信息, 支持多个网卡, 如果是自动创建, 只填一个, ID使用“autoCreate”<br>数组长度: 0 - 65535                                                                                   |
| security_groups  | 否    | Array of SgObject<br>objects     | 安全组, 支持多个安全组, 如果是自动创建, 只填一个, ID使用“autoCreate”<br>数组长度: 0 - 65535                                                                                   |
| publicip         | 否    | Publicip<br>object               | 公网ip                                                                                                                                               |
| disk             | 否    | Array of TemplateDisk<br>objects | 磁盘信息<br>数组长度: 0 - 65535                                                                                                                            |
| data_volume_type | 否    | String                           | 数据盘磁盘类型<br>SAS:串行连接SCSI<br>SSD:固态硬盘<br>SATA:串口硬盘<br>枚举值:<br><ul style="list-style-type: none"> <li>• SAS</li> <li>• SSD</li> <li>• SATA</li> </ul> |
| target_password  | 否    | String                           | 目的端密码<br>最小长度: 0<br>最大长度: 1024                                                                                                                     |

| 参数       | 是否必选 | 参数类型   | 描述                                        |
|----------|------|--------|-------------------------------------------|
| image_id | 否    | String | 新建目的虚拟机用户选择的镜像版本Id值<br>最小长度：0<br>最大长度：255 |

表 5-264 VpcObject

| 参数   | 是否必选 | 参数类型   | 描述                                                  |
|------|------|--------|-----------------------------------------------------|
| id   | 是    | String | 虚拟私有云ID，如果是自动创建，填“autoCreate”<br>最小长度：1<br>最大长度：255 |
| name | 是    | String | 虚拟私有云名称<br>最小长度：1<br>最大长度：255                       |
| cidr | 否    | String | VPC的网段，默认192.168.0.0/16<br>最小长度：1<br>最大长度：255       |

表 5-265 Nics

| 参数   | 是否必选 | 参数类型   | 描述                                                |
|------|------|--------|---------------------------------------------------|
| id   | 是    | String | 子网ID，如果是自动创建，使用“autoCreate”<br>最小长度：0<br>最大长度：255 |
| name | 是    | String | 子网名称<br>最小长度：0<br>最大长度：255                        |
| cidr | 是    | String | 子网网关/掩码<br>最小长度：0<br>最大长度：255                     |
| ip   | 否    | String | 虚拟机IP地址，如果没有这个字段，自动分配IP<br>最小长度：0<br>最大长度：255     |



表 5-266 SgObject

| 参数   | 是否必选 | 参数类型   | 描述                          |
|------|------|--------|-----------------------------|
| id   | 是    | String | 安全组ID<br>最小长度：0<br>最大长度：255 |
| name | 是    | String | 安全组名称<br>最小长度：0<br>最大长度：255 |

表 5-267 PublicIp

| 参数                   | 是否必选 | 参数类型    | 描述                                                                                                                                                                   |
|----------------------|------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type                 | 是    | String  | 弹性公网IP类型，默认为5_bgp<br>最小长度：0<br>最大长度：255                                                                                                                              |
| bandwidth_size       | 是    | Integer | 带宽大小，单位：Mbit/s。<br>调整带宽时的最小单位会根据带宽范围不同存在差异。<br>小于等于300Mbit/s，默认最小单位为1Mbit/s。300Mbit/s~1000Mbit/s，默认最小单位为50Mbit/s。大于1000Mbit/s：默认最小单位为500Mbit/s。<br>最小值：1<br>最大值：2000 |
| bandwidth_share_type | 否    | String  | 带宽共享类型<br>最小长度：0<br>最大长度：255                                                                                                                                         |

表 5-268 TemplateDisk

| 参数 | 是否必选 | 参数类型 | 描述                                           |
|----|------|------|----------------------------------------------|
| id | 否    | Long | 磁盘ID<br>最小值：0<br>最大值：<br>9223372036854775807 |

| 参数         | 是否必选 | 参数类型    | 描述                                                    |
|------------|------|---------|-------------------------------------------------------|
| index      | 是    | Integer | 磁盘序号, 从0开始<br>最小值: 0<br>最大值: 2147483647               |
| name       | 是    | String  | 磁盘名称<br>最小长度: 0<br>最大长度: 255                          |
| disktype   | 是    | String  | 磁盘类型, 同volumetype字段<br>最小长度: 0<br>最大长度: 255           |
| size       | 是    | Long    | 磁盘大小, 单位: GB<br>最小值: 0<br>最大值:<br>9223372036854775807 |
| device_use | 否    | String  | 磁盘使用<br>最小长度: 0<br>最大长度: 255                          |

## 响应参数

状态码: 200

表 5-269 响应 Body 参数

| 参数 | 参数类型   | 描述                                      |
|----|--------|-----------------------------------------|
| id | String | 服务端返回的新添加的模板的ID<br>最小长度: 0<br>最大长度: 255 |

状态码: 403

表 5-270 响应 Body 参数

| 参数         | 参数类型   | 描述                           |
|------------|--------|------------------------------|
| error_code | String | 错误代码<br>最小长度: 0<br>最大长度: 255 |

| 参数                         | 参数类型                            | 描述                                             |
|----------------------------|---------------------------------|------------------------------------------------|
| error_msg                  | String                          | 错误信息<br>最小长度: 0<br>最大长度: 255                   |
| encoded_authorized_message | String                          | 加密授权信息<br>最小长度: 0<br>最大长度: 65535               |
| error_param                | Array of strings                | 错误参数<br>最小长度: 0<br>最大长度: 65535<br>数组长度: 1 - 20 |
| details                    | Array of <b>details</b> objects | 详细错误信息<br>数组长度: 1 - 20                         |

表 5-271 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度: 0<br>最大长度: 65535 |
| error_msg  | String | SMS错误信息<br>最小长度: 0<br>最大长度: 65535 |

## 请求示例

- 创建迁移任务的模板信息，模板名称是xxxx，region信息是region，项目ID是00924d0ad2df4f21ac476dd9f3288xxx。

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

```
{
  "template": {
    "name": "",
    "is_template": false,
    "region": "region",
    "target_server_name": "abcd",
    "availability_zone": "availability_zone",
    "projectid": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "volumetype": "",
    "image_id": "",
    "vpc": {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "sms-1566979232(192.168.0.0/16)"
    },
    "security_groups": [ {
```

```

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

```

- 创建模板的参数

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

```

{
  "template" : {
    "name" : "xxxx",
    "is_template" : true,
    "region" : "region",
    "target_server_name" : "ggg-win16-t",
    "availability_zone" : "availability_zone",
    "projectid" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "target_password" : "*****",
    "flavor" : "c3.medium.2",
    "vpc" : {
      "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name" : "Migrate-SSd-1",
      "cidr" : "192.168.0.0/16"
    },
    "nics" : [ {
      "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name" : "Migrate-SSd-35",
      "cidr" : "192.168.0.0/16",
      "ip" : ""
    } ],
    "security_groups" : [ {
      "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name" : "Migrate-dddd"
    } ],
    "disk" : [ {
      "id" : "0",
      "index" : 0,
      "name" : "Disk 0",
      "disktype" : "SATA",
      "size" : 40,
      "device_use" : "BOOT"
    } ],
    "volumetype" : "SATA",
    "publicip" : {
      "type" : "5_g-vm",
      "bandwidth_size" : 10,
      "bandwidth_share_type" : "PER"
    }
  }
}
}

```

## 响应示例

**状态码： 200**

新增模板信息成功

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

**状态码： 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

- 创建迁移任务的模板信息，模板名称是xxxx，region信息是region，项目ID是00924d0ad2df4f21ac476dd9f3288xxx。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreateTemplateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before
        // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
        // environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
```

```

        .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
        .build();
CreateTemplateRequest request = new CreateTemplateRequest();
CreateTemplateReq body = new CreateTemplateReq();
List<TemplateDisk> listTemplateDisk = new ArrayList<>();
listTemplateDisk.add(
    new TemplateDisk()
        .withIndex(0)
        .withName("system")
        .withDisktype("")
        .withSize(40L)
);
PublicIp publicipTemplate = new PublicIp();
publicipTemplate.withType("5_bgp")
    .withBandwidthSize(5)
    .withBandwidthShareType("PER");
List<SgObject> listTemplateSecurityGroups = new ArrayList<>();
listTemplateSecurityGroups.add(
    new SgObject()
        .withId("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
        .withName("kubernetes.io-default-sg(入方向:udp/1-65535;tcp/22,1-65535,3389; 出方向:--)")
);
List<Nics> listTemplateNics = new ArrayList<>();
listTemplateNics.add(
    new Nics()
        .withId("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
        .withName("sms-1566979244(192.168.0.0/16)")
        .withCidr("192.168.0.0/16")
        .withIp("")
);
VpcObject vpcTemplate = new VpcObject();
vpcTemplate.withId("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
    .withName("sms-1566979232(192.168.0.0/16)");
TemplateRequest templatebody = new TemplateRequest();
templatebody.withName("")
    .withIsTemplate(false)
    .withRegion("region")
    .withProjectid("xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx00000001")
    .withTargetServerName("abcd")
    .withAvailabilityZone("availability_zone")
    .withVolumetype(TemplateRequest.VolumetypeEnum.fromValue(""))
    .withFlavor("s2.medium.2")
    .withVpc(vpcTemplate)
    .withNics(listTemplateNics)
    .withSecurityGroups(listTemplateSecurityGroups)
    .withPublicip(publicipTemplate)
    .withDisk(listTemplateDisk)
    .withImageld("");
body.withTemplate(templatebody);
request.withBody(body);
try {
    CreateTemplateResponse response = client.createTemplate(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
}

```

- 创建模板的参数

```
package com.huaweicloud.sdk.test;
```

```
import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreateTemplateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before
        // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
        // environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        CreateTemplateRequest request = new CreateTemplateRequest();
        CreateTemplateReq body = new CreateTemplateReq();
        List<TemplateDisk> listTemplateDisk = new ArrayList<>();
        listTemplateDisk.add(
            new TemplateDisk()
                .withId(OL)
                .withIndex(0)
                .withName("Disk 0")
                .withDisktype("SATA")
                .withSize(40L)
                .withDeviceUse("BOOT")
        );
        PublicIp publicIpTemplate = new PublicIp();
        publicIpTemplate.withType("5_g-vm")
            .withBandwidthSize(10)
            .withBandwidthShareType("PER");
        List<SgObject> listTemplateSecurityGroups = new ArrayList<>();
        listTemplateSecurityGroups.add(
            new SgObject()
                .withId("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
                .withName("Migrate-dddd")
        );
        List<Nics> listTemplateNics = new ArrayList<>();
        listTemplateNics.add(
            new Nics()
                .withId("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
                .withName("Migrate-SSd-35")
                .withCidr("192.168.0.0/16")
                .withIp("")
        );
        VpcObject vpcTemplate = new VpcObject();
        vpcTemplate.withId("xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001")
            .withName("Migrate-SSd-1")
            .withCidr("192.168.0.0/16");
        TemplateRequest templatebody = new TemplateRequest();
        templatebody.withName("xxx")
            .withIsTemplate(true)
    }
}
```

```

        .withRegion("region")
        .withProjectid("xxxxxxxxxxxxxxxxxxxxxxxx00000001")
        .withTargetServerName("ggg-win16-t")
        .withAvailabilityZone("availability_zone")
        .withVolumetype(TemplateRequest.VolumetypeEnum.fromValue("SATA"))
        .withFlavor("c3.medium.2")
        .withVpc(vpcTemplate)
        .withNics(listTemplateNics)
        .withSecurityGroups(listTemplateSecurityGroups)
        .withPublicip(publicipTemplate)
        .withDisk(listTemplateDisk)
        .withTargetPassword("*****");
body.withTemplate(templatebody);
request.withBody(body);
try {
    CreateTemplateResponse response = client.createTemplate(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
}

```

## Python

- 创建迁移任务的模板信息，模板名称是xxxx，region信息是region，项目ID是00924d0ad2df4f21ac476dd9f3288xxx。

```

# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    # security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    # environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before
    # running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    # environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateTemplateRequest()
        listDiskTemplate = [
            TemplateDisk(
                index=0,
                name="system",
                disktype="",
                size=40
            )
        ]
    
```



```

    )
  ]
  publicipTemplate = PublicIp(
    type="5_bgp",
    bandwidth_size=5,
    bandwidth_share_type="PER"
  )
  listSecurityGroupsTemplate = [
    SgObject(
      id="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      name="kubernetes.io-default-sg(入方向:udp/1-65535;tcp/22,1-65535,3389; 出方向:--)"
    )
  ]
  listNicsTemplate = [
    Nics(
      id="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      name="sms-1566979244(192.168.0.0/16)",
      cidr="192.168.0.0/16",
      ip=""
    )
  ]
  vpcTemplate = VpcObject(
    id="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    name="sms-1566979232(192.168.0.0/16)"
  )
  templatebody = TemplateRequest(
    name="",
    is_template=False,
    region="region",
    projectid="xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx00000001",
    target_server_name="abcd",
    availability_zone="availability_zone",
    volumetype="",
    flavor="s2.medium.2",
    vpc=vpcTemplate,
    nics=listNicsTemplate,
    security_groups=listSecurityGroupsTemplate,
    publicip=publicipTemplate,
    disk=listDiskTemplate,
    image_id=""
  )
  request.body = CreateTemplateReq(
    template=templatebody
  )
  response = client.create_template(request)
  print(response)
except exceptions.ClientRequestException as e:
  print(e.status_code)
  print(e.request_id)
  print(e.error_code)
  print(e.error_msg)

```

- 创建模板的参数

```

# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before
    running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

```

```

credentials = GlobalCredentials(ak, sk)

client = SmsClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(SmsRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = CreateTemplateRequest()
    listDiskTemplate = [
        TemplateDisk(
            id=0,
            index=0,
            name="Disk 0",
            disktype="SATA",
            size=40,
            device_use="BOOT"
        )
    ]
    publicipTemplate = Publicip(
        type="5_g-vm",
        bandwidth_size=10,
        bandwidth_share_type="PER"
    )
    listSecurityGroupsTemplate = [
        SgObject(
            id="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
            name="Migrate-dddd"
        )
    ]
    listNicsTemplate = [
        Nics(
            id="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
            name="Migrate-SSd-35",
            cidr="192.168.0.0/16",
            ip=""
        )
    ]
    vpcTemplate = VpcObject(
        id="xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        name="Migrate-SSd-1",
        cidr="192.168.0.0/16"
    )
    templatebody = TemplateRequest(
        name="xxx",
        is_template=True,
        region="region",
        projectid="xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx00000001",
        target_server_name="ggg-win16-t",
        availability_zone="availability_zone",
        volumetype="SATA",
        flavor="c3.medium.2",
        vpc=vpcTemplate,
        nics=listNicsTemplate,
        security_groups=listSecurityGroupsTemplate,
        publicip=publicipTemplate,
        disk=listDiskTemplate,
        target_password="*****"
    )
    request.body = CreateTemplateReq(
        template=templatebody
    )
    response = client.create_template(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)

```

```
print(e.error_code)
print(e.error_msg)
```

## Go

- 创建迁移任务的模板信息，模板名称是xxxx，region信息是region，项目ID是00924d0ad2df4f21ac476dd9f3288xxx。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    // environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before
    // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    // environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateTemplateRequest{}
    var listDiskTemplate = []model.TemplateDisk{
        {
            Index: int32(0),
            Name: "system",
            Disktype: "",
            Size: int64(40),
        },
    }
    bandwidthShareTypePublicip:= "PER"
    publicipTemplate := &model.PublicIp{
        Type: "5_bgp",
        BandwidthSize: int32(5),
        BandwidthShareType: &bandwidthShareTypePublicip,
    }
    var listSecurityGroupsTemplate = []model.SgObject{
        {
            Id: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
            Name: "kubernetes.io-default-sg(入方向:udp/1-65535;tcp/22,1-65535,3389; 出方向:--)",
        },
    }
    ipNics:= ""
    var listNicsTemplate = []model.Nics{
        {
            Id: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
            Name: "sms-1566979244(192.168.0.0/16)",
            Cidr: "192.168.0.0/16",
            Ip: &ipNics,
        },
    }
}
```

```

vpcTemplate := &model.VpcObject{
    Id: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    Name: "sms-1566979232(192.168.0.0/16)",
}
targetServerNameTemplate:= "abcd"
availabilityZoneTemplate:= "availability_zone"
volumetypeTemplate:= model.GetTemplateRequestVolumetypeEnum().EMPTY
flavorTemplate:= "s2.medium.2"
imageIdTemplate:= ""
templatebody := &model.TemplateRequest{
    Name: "",
    IsTemplate: false,
    Region: "region",
    Projectid: "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    TargetServerName: &targetServerNameTemplate,
    AvailabilityZone: &availabilityZoneTemplate,
    Volumetype: &volumetypeTemplate,
    Flavor: &flavorTemplate,
    Vpc: vpcTemplate,
    Nics: &listNicsTemplate,
    SecurityGroups: &listSecurityGroupsTemplate,
    Publicip: publicipTemplate,
    Disk: &listDiskTemplate,
    Imageid: &imageIdTemplate,
}
request.Body = &model.CreateTemplateReq{
    Template: templatebody,
}
response, err := client.CreateTemplate(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}

```

- 创建模板的参数

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    // environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before
    // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
    // environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateTemplateRequest{
        idDisk:= int64(0)
    }
}

```

```

deviceUseDisk:= "BOOT"
var listDiskTemplate = []model.TemplateDisk{
    {
        Id: &idDisk,
        Index: int32(0),
        Name: "Disk 0",
        Disktype: "SATA",
        Size: int64(40),
        DeviceUse: &deviceUseDisk,
    },
}
bandwidthShareTypePublicip:= "PER"
publicipTemplate := &model.PublicIp{
    Type: "5_g-vm",
    BandwidthSize: int32(10),
    BandwidthShareType: &bandwidthShareTypePublicip,
}
var listSecurityGroupsTemplate = []model.SgObject{
    {
        Id: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        Name: "Migrate-dddd",
    },
}
ipNics:= ""
var listNicsTemplate = []model.Nics{
    {
        Id: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        Name: "Migrate-SSd-35",
        Cidr: "192.168.0.0/16",
        Ip: &ipNics,
    },
}
cidrVpc:= "192.168.0.0/16"
vpcTemplate := &model.VpcObject{
    Id: "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    Name: "Migrate-SSd-1",
    Cidr: &cidrVpc,
}
targetServerNameTemplate:= "ggg-win16-t"
availabilityZoneTemplate:= "availability_zone"
volumetypeTemplate:= model.GetTemplateRequestVolumetypeEnum().SATA
flavorTemplate:= "c3.medium.2"
targetPasswordTemplate:= "*****"
templatebody := &model.TemplateRequest{
    Name: "xxx",
    IsTemplate: true,
    Region: "region",
    Projectid: "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    TargetServerName: &targetServerNameTemplate,
    AvailabilityZone: &availabilityZoneTemplate,
    Volumetype: &volumetypeTemplate,
    Flavor: &flavorTemplate,
    Vpc: vpcTemplate,
    Nics: &listNicsTemplate,
    SecurityGroups: &listSecurityGroupsTemplate,
    Publicip: publicipTemplate,
    Disk: &listDiskTemplate,
    TargetPassword: &targetPasswordTemplate,
}
request.Body = &model.CreateTemplateReq{
    Template: templatebody,
}
response, err := client.CreateTemplate(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}

```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述       |
|-----|----------|
| 200 | 新增模板信息成功 |
| 403 | 鉴权失败     |

## 错误码

请参见[错误码](#)。

## 5.6.2 查询模板列表

### 功能介绍

查询弹性云服务器模板列表，迁移时选择“新建服务器”时可使用该模板创建弹性云服务器。

### 调用方法

请参见[如何调用API](#)。

### URI

GET /v3/vm/templates

表 5-272 Query 参数

| 参数                | 是否必选 | 参数类型   | 描述                              |
|-------------------|------|--------|---------------------------------|
| name              | 否    | String | 模板名称<br>最小长度：0<br>最大长度：255      |
| availability_zone | 否    | String | 可用区<br>最小长度：0<br>最大长度：255       |
| region            | 否    | String | Region ID<br>最小长度：0<br>最大长度：255 |

| 参数     | 是否必选 | 参数类型    | 描述                                          |
|--------|------|---------|---------------------------------------------|
| limit  | 否    | Integer | 分页大小，不传值默认为50<br>最小值：0<br>最大值：100<br>缺省值：50 |
| offset | 否    | Integer | 偏移量，不传值默认为0<br>最小值：0<br>最大值：65535<br>缺省值：0  |

## 请求参数

表 5-273 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                               |
|--------------|------|--------|--------------------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

## 响应参数

状态码： 200

表 5-274 响应 Body 参数

| 参数        | 参数类型                                         | 描述                         |
|-----------|----------------------------------------------|----------------------------|
| count     | Integer                                      | 模板个数<br>最小值：0<br>最大值：65535 |
| templates | Array of <b>TemplateResponseBody</b> objects | 模板信息<br>数组长度：0 - 65535     |

表 5-275 TemplateResponseBody

| 参数                 | 参数类型             | 描述                                                                                                                                                 |
|--------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| id                 | String           | 模板ID<br>最小长度：0<br>最大长度：255                                                                                                                         |
| name               | String           | 模板名称<br>最小长度：0<br>最大长度：255                                                                                                                         |
| is_template        | String           | 是否是通用模板，如果模板关联一个任务，则不算通用模板<br>最小长度：0<br>最大长度：255                                                                                                   |
| region             | String           | Region信息<br>最小长度：0<br>最大长度：255                                                                                                                     |
| projectid          | String           | 项目ID<br>最小长度：0<br>最大长度：255                                                                                                                         |
| target_server_name | String           | 目标端服务器名称<br>最小长度：0<br>最大长度：255                                                                                                                     |
| availability_zone  | String           | 可用区<br>最小长度：0<br>最大长度：255                                                                                                                          |
| volumetype         | String           | 数据盘磁盘类型<br>SAS:串行连接SCSI<br>SSD:固态硬盘<br>SATA:串口硬盘<br>枚举值：<br><ul style="list-style-type: none"> <li>• SAS</li> <li>• SSD</li> <li>• SATA</li> </ul> |
| flavor             | String           | 虚拟机规格<br>最小长度：0<br>最大长度：255                                                                                                                        |
| vpc                | VpcObject object | vpc对象                                                                                                                                              |



| 参数               | 参数类型                                 | 描述                                                                                                                                                 |
|------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| nics             | Array of <b>Nics</b> objects         | 网卡信息，支持多个网卡，如果是自动创建，只填一个，ID使用“autoCreate”<br>数组长度：0 - 65535                                                                                        |
| security_groups  | Array of <b>SgObject</b> objects     | 安全组，支持多个安全组，如果是自动创建，只填一个，ID使用“autoCreate”<br>数组长度：0 - 65535                                                                                        |
| publicip         | <b>PublicIp</b> object               | 公网ip                                                                                                                                               |
| disk             | Array of <b>TemplateDisk</b> objects | 磁盘信息<br>数组长度：0 - 65535                                                                                                                             |
| data_volume_type | String                               | 数据盘磁盘类型<br>SAS:串行连接SCSI<br>SSD:固态硬盘<br>SATA:串口硬盘<br>枚举值：<br><ul style="list-style-type: none"> <li>• SAS</li> <li>• SSD</li> <li>• SATA</li> </ul> |
| target_password  | String                               | 目的端密码<br>最小长度：0<br>最大长度：1024                                                                                                                       |
| image_id         | String                               | 用户选择镜像版本Id值<br>最小长度：0<br>最大长度：255                                                                                                                  |

表 5-276 VpcObject

| 参数   | 参数类型   | 描述                                                  |
|------|--------|-----------------------------------------------------|
| id   | String | 虚拟私有云ID，如果是自动创建，填“autoCreate”<br>最小长度：1<br>最大长度：255 |
| name | String | 虚拟私有云名称<br>最小长度：1<br>最大长度：255                       |

| 参数   | 参数类型   | 描述                                            |
|------|--------|-----------------------------------------------|
| cidr | String | VPC的网段，默认192.168.0.0/16<br>最小长度：1<br>最大长度：255 |

表 5-277 Nics

| 参数   | 参数类型   | 描述                                                |
|------|--------|---------------------------------------------------|
| id   | String | 子网ID，如果是自动创建，使用"autoCreate"<br>最小长度：0<br>最大长度：255 |
| name | String | 子网名称<br>最小长度：0<br>最大长度：255                        |
| cidr | String | 子网网关/掩码<br>最小长度：0<br>最大长度：255                     |
| ip   | String | 虚拟机IP地址，如果没有这个字段，自动分配IP<br>最小长度：0<br>最大长度：255     |

表 5-278 SgObject

| 参数   | 参数类型   | 描述                          |
|------|--------|-----------------------------|
| id   | String | 安全组ID<br>最小长度：0<br>最大长度：255 |
| name | String | 安全组名称<br>最小长度：0<br>最大长度：255 |

表 5-279 PublicIp

| 参数                   | 参数类型    | 描述                                                                                                                                                                   |
|----------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type                 | String  | 弹性公网IP类型，默认为5_bgp<br>最小长度：0<br>最大长度：255                                                                                                                              |
| bandwidth_size       | Integer | 带宽大小，单位：Mbit/s。<br>调整带宽时的最小单位会根据带宽范围不同存在差异。<br>小于等于300Mbit/s，默认最小单位为1Mbit/s。300Mbit/s~1000Mbit/s，默认最小单位为50Mbit/s。大于1000Mbit/s：默认最小单位为500Mbit/s。<br>最小值：1<br>最大值：2000 |
| bandwidth_share_type | String  | 带宽共享类型<br>最小长度：0<br>最大长度：255                                                                                                                                         |

表 5-280 TemplateDisk

| 参数       | 参数类型    | 描述                                             |
|----------|---------|------------------------------------------------|
| id       | Long    | 磁盘ID<br>最小值：0<br>最大值：9223372036854775807       |
| index    | Integer | 磁盘序号，从0开始<br>最小值：0<br>最大值：2147483647           |
| name     | String  | 磁盘名称<br>最小长度：0<br>最大长度：255                     |
| disktype | String  | 磁盘类型，同volumetype字段<br>最小长度：0<br>最大长度：255       |
| size     | Long    | 磁盘大小，单位：GB<br>最小值：0<br>最大值：9223372036854775807 |

| 参数         | 参数类型   | 描述                           |
|------------|--------|------------------------------|
| device_use | String | 磁盘使用<br>最小长度: 0<br>最大长度: 255 |

状态码: 403

表 5-281 响应 Body 参数

| 参数                         | 参数类型                                     | 描述                                             |
|----------------------------|------------------------------------------|------------------------------------------------|
| error_code                 | String                                   | 错误代码<br>最小长度: 0<br>最大长度: 255                   |
| error_msg                  | String                                   | 错误信息<br>最小长度: 0<br>最大长度: 255                   |
| encoded_authorized_message | String                                   | 加密授权信息<br>最小长度: 0<br>最大长度: 65535               |
| error_param                | Array of strings                         | 错误参数<br>最小长度: 0<br>最大长度: 65535<br>数组长度: 1 - 20 |
| details                    | Array of <a href="#">details</a> objects | 详细错误信息<br>数组长度: 1 - 20                         |

表 5-282 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度: 0<br>最大长度: 65535 |
| error_msg  | String | SMS错误信息<br>最小长度: 0<br>最大长度: 65535 |

## 请求示例

### 查询模板列表

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

## 响应示例

状态码: 200

### 查询模板列表成功

```
{
  "count": 9,
  "templates": [ {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "test",
    "region": "region",
    "availability_zone": "availability_zone",
    "projectid": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "flavor": "s2.large.2",
    "volumetype": "",
    "image_id": "",
    "vpc": {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "vpc-dfdb"
    },
    "nics": [ {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "subnet-dfdb(192.168.1.0/24)",
      "cidr": "192.168.1.0/24",
      "ip": ""
    } ],
    "security_groups": [ {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "default(Inbound:tcp/8900,8899,3389,22; Outbound:--)"
    } ]
  }, {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "test1",
    "region": "region",
    "availability_zone": "availability_zone",
    "projectid": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "flavor": "s6.large.2",
    "volumetype": "",
    "image_id": "",
    "vpc": {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "vpc-13d6"
    },
    "nics": [ {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "subnet-13d6(192.168.1.0/24)",
      "cidr": "192.168.1.0/24",
      "ip": ""
    } ],
    "security_groups": [ {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "sms-1568190885(Inbound:tcp/8900,8899,3389; Outbound:--)"
    } ]
  }, {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "test2",
    "region": "region",
    "availability_zone": "availability_zone",
    "projectid": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "flavor": "s2.large.2",
    "volumetype": "",
  } ]
}
```

```

"image_id" : "",
"vpc" : {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name" : "vpc-testcloud(192.168.0.0/16)"
},
"nics" : [ {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name" : "subnet-testcloud(192.168.0.0/24)",
  "cidr" : "192.168.0.0/24",
  "ip" : ""
}],
"security_groups" : [ ]
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name" : "fdff",
  "region" : "region",
  "availability_zone" : "availability_zone",
  "projectid" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
  "flavor" : "s2.large.2",
  "volumetype" : "",
  "image_id" : "",
  "vpc" : {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "vpc-migration(192.168.0.0/16)"
  },
  "nics" : [ {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "subnet-cf42(192.168.5.0/24)",
    "cidr" : "192.168.5.0/24",
    "ip" : ""
  } ],
  "security_groups" : [ {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "sg-smt-test(Inbound:tcp/3389,8899,22,8900; Outbound:--)"
  } ]
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name" : "test3",
  "region" : "region",
  "availability_zone" : "availability_zone",
  "projectid" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
  "flavor" : "s2.medium.2",
  "volumetype" : "",
  "image_id" : "",
  "vpc" : { },
  "nics" : [ ],
  "security_groups" : [ ]
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name" : "test_linux_childproj",
  "region" : "region",
  "availability_zone" : "availability_zone",
  "projectid" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
  "flavor" : "s2.small.1",
  "volumetype" : "SATA",
  "image_id" : "",
  "vpc" : {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "sms-1567992634(192.168.0.0/16)"
  },
  "nics" : [ {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "sms-1567992646(192.168.0.0/16)",
    "cidr" : "192.168.0.0/16",
    "ip" : ""
  } ],
  "security_groups" : [ {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "sg-7e50(Inbound:tcp/8900,8899,3389,22; Outbound:--)"
  } ]
}

```

```

    }
  ], {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "12212",
    "region": "region",
    "availability_zone": "availability_zone",
    "projectid": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "flavor": "s2.large.2",
    "volumetype": "",
    "image_id": "",
    "vpc": {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "vpc-migration(192.168.0.0/16)"
    },
    "nics": [ {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "subnet-migration(192.168.1.0/24)",
      "cidr": "192.168.1.0/24",
      "ip": ""
    } ],
    "security_groups": [ {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "SMT-Windows(Inbound:tcp/8443,8899,8900,22,3389;icmp; Outbound:--)"
    } ]
  }, {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "test4",
    "region": "region",
    "availability_zone": "availability_zone",
    "projectid": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "flavor": "s2.medium.2",
    "volumetype": "SATA",
    "image_id": "",
    "vpc": { },
    "nics": [ ],
    "security_groups": [ ]
  }, {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "dddd",
    "region": "region",
    "availability_zone": "availability_zone",
    "projectid": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "flavor": "s2.large.2",
    "volumetype": "",
    "image_id": "",
    "vpc": {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "sms-1566979232(192.168.0.0/16)"
    },
    "nics": [ {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "sms-1566979244(192.168.0.0/16)",
      "cidr": "192.168.0.0/16",
      "ip": ""
    } ],
    "security_groups": [ ]
  } ]
}

```

### 状态码： 403

#### 鉴权失败

```

{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {

```

```
"error_code" : "SMS.9004",  
"error_msg" : "You do not have permission to perform action XXX on resource XXX."  
}]  
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.GlobalCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;  
import com.huaweicloud.sdk.sms.v3.*;  
import com.huaweicloud.sdk.sms.v3.model.*;  
  
public class ListTemplatesSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
  
        ICredential auth = new GlobalCredentials()  
            .withAk(ak)  
            .withSk(sk);  
  
        SmsClient client = SmsClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))  
            .build();  
        ListTemplatesRequest request = new ListTemplatesRequest();  
        try {  
            ListTemplatesResponse response = client.listTemplates(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getHttpStatusCode());  
            System.out.println(e.getRequestId());  
            System.out.println(e.getErrorCode());  
            System.out.println(e.getErrorMsg());  
        }  
    }  
}
```

### Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import GlobalCredentials  
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
```



```

from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListTemplatesRequest()
        response = client.list_templates(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)

```

## Go

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListTemplatesRequest{}
    response, err := client.ListTemplates(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}

```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述       |
|-----|----------|
| 200 | 查询模板列表成功 |
| 403 | 鉴权失败     |

## 错误码

请参见[错误码](#)。

## 5.6.3 批量删除指定 ID 的模板

### 功能介绍

批量删除指定ID的模板。

### 调用方法

请参见[如何调用API](#)。

### URI

POST /v3/vm/templates/delete

### 请求参数

表 5-283 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                               |
|--------------|------|--------|--------------------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

表 5-284 请求 Body 参数

| 参数  | 是否必选 | 参数类型             | 描述                                                |
|-----|------|------------------|---------------------------------------------------|
| ids | 否    | Array of strings | 需要删除的模板ID<br>最小长度：0<br>最大长度：255<br>数组长度：0 - 65535 |

## 响应参数

状态码：200

表 5-285 响应 Body 参数

| 参数 | 参数类型   | 描述            |
|----|--------|---------------|
| -  | String | 批量删除指定ID的模板成功 |

状态码：403

表 5-286 响应 Body 参数

| 参数                            | 参数类型                            | 描述                                          |
|-------------------------------|---------------------------------|---------------------------------------------|
| error_code                    | String                          | 错误代码<br>最小长度：0<br>最大长度：255                  |
| error_msg                     | String                          | 错误信息<br>最小长度：0<br>最大长度：255                  |
| encoded_authorization_message | String                          | 加密授权信息<br>最小长度：0<br>最大长度：65535              |
| error_param                   | Array of strings                | 错误参数<br>最小长度：0<br>最大长度：65535<br>数组长度：1 - 20 |
| details                       | Array of <b>details</b> objects | 详细错误信息<br>数组长度：1 - 20                       |

表 5-287 details

| 参数         | 参数类型   | 描述                              |
|------------|--------|---------------------------------|
| error_code | String | SMS错误代码<br>最小长度：0<br>最大长度：65535 |
| error_msg  | String | SMS错误信息<br>最小长度：0<br>最大长度：65535 |

## 请求示例

批量删除指定ID的模板，待删除模板的ID集合为["3db302e8-95de-478c-a892-8a083f2dxxxx","708847ae-f013-4b1a-8ea8-6cfa1e94xxxx"]

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

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

## 响应示例

**状态码：403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

批量删除指定ID的模板，待删除模板的ID集合为["3db302e8-95de-478c-a892-8a083f2dxxxx","708847ae-f013-4b1a-8ea8-6cfa1e94xxxx"]

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
```

```
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class DeleteTemplatesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteTemplatesRequest request = new DeleteTemplatesRequest();
        DeletetemplatesReq body = new DeletetemplatesReq();
        List<String> listbodyIds = new ArrayList<>();
        listbodyIds.add("3db302e8-95de-478c-a892-8a083f2dxxxx");
        listbodyIds.add("708847ae-f013-4b1a-8ea8-6cfa1e94xxxx");
        body.withIds(listbodyIds);
        request.withBody(body);
        try {
            DeleteTemplatesResponse response = client.deleteTemplates(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

批量删除指定ID的模板，待删除模板的ID集合为["3db302e8-95de-478c-a892-8a083f2dxxxx","708847ae-f013-4b1a-8ea8-6cfa1e94xxxx"]

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
```

```

sk = os.environ["CLOUD_SDK_SK"]

credentials = GlobalCredentials(ak, sk)

client = SmsClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(SmsRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = DeleteTemplatesRequest()
    listldsbody = [
        "3db302e8-95de-478c-a892-8a083f2dxxxx",
        "708847ae-f013-4b1a-8ea8-6cfa1e94xxxx"
    ]
    request.body = DeletetemplatesReq(
        ids=listldsbody
    )
    response = client.delete_templates(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)

```

## Go

批量删除指定ID的模板，待删除模板的ID集合为["3db302e8-95de-478c-a892-8a083f2dxxxx", "708847ae-f013-4b1a-8ea8-6cfa1e94xxxx"]

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteTemplatesRequest{
        var listldsbody = []string{
            "3db302e8-95de-478c-a892-8a083f2dxxxx",
            "708847ae-f013-4b1a-8ea8-6cfa1e94xxxx",
        }
        request.Body = &model.DeletetemplatesReq{
            Ids: &listldsbody,
        }
    }
}

```

```
response, err := client.DeleteTemplates(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述            |
|-----|---------------|
| 200 | 批量删除指定ID的模板成功 |
| 403 | 鉴权失败          |

## 错误码

请参见[错误码](#)。

## 5.6.4 删除指定 ID 的模板

### 功能介绍

删除指定ID的模板。

### 调用方法

请参见[如何调用API](#)。

### URI

DELETE /v3/vm/templates/{id}

表 5-288 路径参数

| 参数 | 是否必选 | 参数类型   | 描述                               |
|----|------|--------|----------------------------------|
| id | 是    | String | 需要删除的模板的ID<br>最小长度：0<br>最大长度：255 |

## 请求参数

表 5-289 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                               |
|--------------|------|--------|--------------------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

## 响应参数

状态码：200

表 5-290 响应 Body 参数

| 参数 | 参数类型   | 描述          |
|----|--------|-------------|
| -  | String | 删除指定ID的模板成功 |

状态码：403

表 5-291 响应 Body 参数

| 参数                            | 参数类型             | 描述                                          |
|-------------------------------|------------------|---------------------------------------------|
| error_code                    | String           | 错误代码<br>最小长度：0<br>最大长度：255                  |
| error_msg                     | String           | 错误信息<br>最小长度：0<br>最大长度：255                  |
| encoded_authorization_message | String           | 加密授权信息<br>最小长度：0<br>最大长度：65535              |
| error_param                   | Array of strings | 错误参数<br>最小长度：0<br>最大长度：65535<br>数组长度：1 - 20 |



| 参数      | 参数类型                            | 描述                     |
|---------|---------------------------------|------------------------|
| details | Array of <b>details</b> objects | 详细错误信息<br>数组长度: 1 - 20 |

表 5-292 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度: 0<br>最大长度: 65535 |
| error_msg  | String | SMS错误信息<br>最小长度: 0<br>最大长度: 65535 |

## 请求示例

删除ID为2bf4344f-8f1f-414e-bb1b-8c2f59ada67f的模板

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

## 响应示例

**状态码: 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
```

```
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class DeleteTemplateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteTemplateRequest request = new DeleteTemplateRequest();
        request.withId("{id}");
        try {
            DeleteTemplateResponse response = client.deleteTemplate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()
```

```
try:
    request = DeleteTemplateRequest()
    request.id = "{id}"
    response = client.delete_template(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteTemplateRequest{}
    request.Id = "{id}"
    response, err := client.DeleteTemplate(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述          |
|-----|-------------|
| 200 | 删除指定ID的模板成功 |
| 403 | 鉴权失败        |

## 错误码

请参见[错误码](#)。

## 5.6.5 查询指定 ID 模板信息

### 功能介绍

查询指定ID的弹性云服务器模板信息。

### 调用方法

请参见[如何调用API](#)。

### URI

GET /v3/vm/templates/{id}

表 5-293 路径参数

| 参数 | 是否必选 | 参数类型   | 描述                                 |
|----|------|--------|------------------------------------|
| id | 是    | String | 需要查询的模板信息的ID<br>最小长度：0<br>最大长度：255 |

### 请求参数

表 5-294 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                               |
|--------------|------|--------|--------------------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

### 响应参数

状态码： 200

表 5-295 响应 Body 参数

| 参数       | 参数类型                               | 描述   |
|----------|------------------------------------|------|
| template | <b>TemplateResponseBody</b> object | 模板信息 |

表 5-296 TemplateResponseBody

| 参数                 | 参数类型   | 描述                                                   |
|--------------------|--------|------------------------------------------------------|
| id                 | String | 模板ID<br>最小长度: 0<br>最大长度: 255                         |
| name               | String | 模板名称<br>最小长度: 0<br>最大长度: 255                         |
| is_template        | String | 是否是通用模板, 如果模板关联一个任务, 则不算通用模板<br>最小长度: 0<br>最大长度: 255 |
| region             | String | Region信息<br>最小长度: 0<br>最大长度: 255                     |
| projectid          | String | 项目ID<br>最小长度: 0<br>最大长度: 255                         |
| target_server_name | String | 目标端服务器名称<br>最小长度: 0<br>最大长度: 255                     |
| availability_zone  | String | 可用区<br>最小长度: 0<br>最大长度: 255                          |

| 参数               | 参数类型                          | 描述                                                                                                                                                 |
|------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| volumetype       | String                        | 数据盘磁盘类型<br>SAS:串行连接SCSI<br>SSD:固态硬盘<br>SATA:串口硬盘<br>枚举值:<br><ul style="list-style-type: none"> <li>• SAS</li> <li>• SSD</li> <li>• SATA</li> </ul> |
| flavor           | String                        | 虚拟机规格<br>最小长度: 0<br>最大长度: 255                                                                                                                      |
| vpc              | VpcObject object              | vpc对象                                                                                                                                              |
| nics             | Array of Nics objects         | 网卡信息, 支持多个网卡, 如果是自动创建, 只填一个, ID使用“autoCreate”<br>数组长度: 0 - 65535                                                                                   |
| security_groups  | Array of SgObject objects     | 安全组, 支持多个安全组, 如果是自动创建, 只填一个, ID使用“autoCreate”<br>数组长度: 0 - 65535                                                                                   |
| publicip         | PublicIp object               | 公网ip                                                                                                                                               |
| disk             | Array of TemplateDisk objects | 磁盘信息<br>数组长度: 0 - 65535                                                                                                                            |
| data_volume_type | String                        | 数据盘磁盘类型<br>SAS:串行连接SCSI<br>SSD:固态硬盘<br>SATA:串口硬盘<br>枚举值:<br><ul style="list-style-type: none"> <li>• SAS</li> <li>• SSD</li> <li>• SATA</li> </ul> |
| target_password  | String                        | 目的端密码<br>最小长度: 0<br>最大长度: 1024                                                                                                                     |

| 参数       | 参数类型   | 描述                                |
|----------|--------|-----------------------------------|
| image_id | String | 用户选择镜像版本Id值<br>最小长度：0<br>最大长度：255 |

表 5-297 VpcObject

| 参数   | 参数类型   | 描述                                                  |
|------|--------|-----------------------------------------------------|
| id   | String | 虚拟私有云ID，如果是自动创建，填“autoCreate”<br>最小长度：1<br>最大长度：255 |
| name | String | 虚拟私有云名称<br>最小长度：1<br>最大长度：255                       |
| cidr | String | VPC的网段，默认192.168.0.0/16<br>最小长度：1<br>最大长度：255       |

表 5-298 Nics

| 参数   | 参数类型   | 描述                                                |
|------|--------|---------------------------------------------------|
| id   | String | 子网ID，如果是自动创建，使用"autoCreate"<br>最小长度：0<br>最大长度：255 |
| name | String | 子网名称<br>最小长度：0<br>最大长度：255                        |
| cidr | String | 子网网关/掩码<br>最小长度：0<br>最大长度：255                     |
| ip   | String | 虚拟机IP地址，如果没有这个字段，自动分配IP<br>最小长度：0<br>最大长度：255     |

表 5-299 SgObject

| 参数   | 参数类型   | 描述                          |
|------|--------|-----------------------------|
| id   | String | 安全组ID<br>最小长度：0<br>最大长度：255 |
| name | String | 安全组名称<br>最小长度：0<br>最大长度：255 |

表 5-300 PublicIp

| 参数                   | 参数类型    | 描述                                                                                                                                                                   |
|----------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type                 | String  | 弹性公网IP类型，默认为5_bgp<br>最小长度：0<br>最大长度：255                                                                                                                              |
| bandwidth_size       | Integer | 带宽大小，单位：Mbit/s。<br>调整带宽时的最小单位会根据带宽范围不同存在差异。<br>小于等于300Mbit/s，默认最小单位为1Mbit/s。300Mbit/s~1000Mbit/s，默认最小单位为50Mbit/s。大于1000Mbit/s：默认最小单位为500Mbit/s。<br>最小值：1<br>最大值：2000 |
| bandwidth_share_type | String  | 带宽共享类型<br>最小长度：0<br>最大长度：255                                                                                                                                         |

表 5-301 TemplateDisk

| 参数    | 参数类型    | 描述                                       |
|-------|---------|------------------------------------------|
| id    | Long    | 磁盘ID<br>最小值：0<br>最大值：9223372036854775807 |
| index | Integer | 磁盘序号，从0开始<br>最小值：0<br>最大值：2147483647     |



| 参数         | 参数类型   | 描述                                                 |
|------------|--------|----------------------------------------------------|
| name       | String | 磁盘名称<br>最小长度: 0<br>最大长度: 255                       |
| disktype   | String | 磁盘类型, 同volumetype字段<br>最小长度: 0<br>最大长度: 255        |
| size       | Long   | 磁盘大小, 单位: GB<br>最小值: 0<br>最大值: 9223372036854775807 |
| device_use | String | 磁盘使用<br>最小长度: 0<br>最大长度: 255                       |

状态码: 403

表 5-302 响应 Body 参数

| 参数                            | 参数类型                            | 描述                                             |
|-------------------------------|---------------------------------|------------------------------------------------|
| error_code                    | String                          | 错误代码<br>最小长度: 0<br>最大长度: 255                   |
| error_msg                     | String                          | 错误信息<br>最小长度: 0<br>最大长度: 255                   |
| encoded_authorization_message | String                          | 加密授权信息<br>最小长度: 0<br>最大长度: 65535               |
| error_param                   | Array of strings                | 错误参数<br>最小长度: 0<br>最大长度: 65535<br>数组长度: 1 - 20 |
| details                       | Array of <b>details</b> objects | 详细错误信息<br>数组长度: 1 - 20                         |

表 5-303 details

| 参数         | 参数类型   | 描述                              |
|------------|--------|---------------------------------|
| error_code | String | SMS错误代码<br>最小长度：0<br>最大长度：65535 |
| error_msg  | String | SMS错误信息<br>最小长度：0<br>最大长度：65535 |

## 请求示例

查询ID为6874cb49-48bb-4875-975d-4bca464d8472的模板的详情

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

## 响应示例

状态码： 200

查询指定ID模板信息成功

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

状态码： 403

## 鉴权失败

```
{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have
permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ShowTemplateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowTemplateRequest request = new ShowTemplateRequest();
        request.withId("{id}");
        try {
            ShowTemplateResponse response = client.showTemplate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

```
}  
}
```

## Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowTemplateRequest()
        request.id = "{id}"
        response = client.show_template(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
```

```
WithCredential(auth).  
Build())  
  
request := &model.ShowTemplateRequest{}  
request.Id = "{id}"  
response, err := client.ShowTemplate(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述           |
|-----|--------------|
| 200 | 查询指定ID模板信息成功 |
| 403 | 鉴权失败         |

## 错误码

请参见[错误码](#)。

## 5.6.6 修改模板信息

### 功能介绍

修改源端模板信息。

### 调用方法

请参见[如何调用API](#)。

### URI

PUT /v3/vm/templates/{id}

表 5-304 路径参数

| 参数 | 是否必选 | 参数类型   | 描述                                 |
|----|------|--------|------------------------------------|
| id | 是    | String | 需要修改信息的模板的ID<br>最小长度：0<br>最大长度：255 |

## 请求参数

表 5-305 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                               |
|--------------|------|--------|--------------------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

表 5-306 请求 Body 参数

| 参数       | 是否必选 | 参数类型                   | 描述   |
|----------|------|------------------------|------|
| template | 否    | TemplateRequest object | 模板信息 |

表 5-307 TemplateRequest

| 参数                 | 是否必选 | 参数类型    | 描述                             |
|--------------------|------|---------|--------------------------------|
| name               | 是    | String  | 模板名称<br>最小长度：0<br>最大长度：255     |
| is_template        | 是    | Boolean | 是否是通用模板，如果模板关联一个任务，则不算通用模板     |
| region             | 是    | String  | Region信息<br>最小长度：0<br>最大长度：255 |
| projectid          | 是    | String  | 项目ID<br>最小长度：0<br>最大长度：255     |
| target_server_name | 否    | String  | 目标端服务器名称<br>最小长度：0<br>最大长度：255 |
| availability_zone  | 否    | String  | 可用区<br>最小长度：0<br>最大长度：255      |

| 参数               | 是否必选 | 参数类型                             | 描述                                                                                                                                                 |
|------------------|------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| volumetype       | 否    | String                           | 磁盘类型<br>SAS:串行连接SCSI<br>SSD:固态硬盘<br>SATA:串口硬盘<br>枚举值:<br><ul style="list-style-type: none"> <li>• SAS</li> <li>• SSD</li> <li>• SATA</li> </ul>    |
| flavor           | 否    | String                           | 虚拟机规格<br>最小长度: 0<br>最大长度: 65535                                                                                                                    |
| vpc              | 否    | VpcObject<br>object              | vpc对象                                                                                                                                              |
| nics             | 否    | Array of Nics<br>objects         | 网卡信息, 支持多个网卡, 如果是自动创建, 只填一个, ID使用“autoCreate”<br>数组长度: 0 - 65535                                                                                   |
| security_groups  | 否    | Array of SgObject<br>objects     | 安全组, 支持多个安全组, 如果是自动创建, 只填一个, ID使用“autoCreate”<br>数组长度: 0 - 65535                                                                                   |
| publicip         | 否    | PublicIp<br>object               | 公网ip                                                                                                                                               |
| disk             | 否    | Array of TemplateDisk<br>objects | 磁盘信息<br>数组长度: 0 - 65535                                                                                                                            |
| data_volume_type | 否    | String                           | 数据盘磁盘类型<br>SAS:串行连接SCSI<br>SSD:固态硬盘<br>SATA:串口硬盘<br>枚举值:<br><ul style="list-style-type: none"> <li>• SAS</li> <li>• SSD</li> <li>• SATA</li> </ul> |
| target_password  | 否    | String                           | 目的端密码<br>最小长度: 0<br>最大长度: 1024                                                                                                                     |

| 参数       | 是否必选 | 参数类型   | 描述                                        |
|----------|------|--------|-------------------------------------------|
| image_id | 否    | String | 新建目的虚拟机用户选择的镜像版本Id值<br>最小长度：0<br>最大长度：255 |

表 5-308 VpcObject

| 参数   | 是否必选 | 参数类型   | 描述                                                  |
|------|------|--------|-----------------------------------------------------|
| id   | 是    | String | 虚拟私有云ID，如果是自动创建，填“autoCreate”<br>最小长度：1<br>最大长度：255 |
| name | 是    | String | 虚拟私有云名称<br>最小长度：1<br>最大长度：255                       |
| cidr | 否    | String | VPC的网段，默认192.168.0.0/16<br>最小长度：1<br>最大长度：255       |

表 5-309 Nics

| 参数   | 是否必选 | 参数类型   | 描述                                                |
|------|------|--------|---------------------------------------------------|
| id   | 是    | String | 子网ID，如果是自动创建，使用“autoCreate”<br>最小长度：0<br>最大长度：255 |
| name | 是    | String | 子网名称<br>最小长度：0<br>最大长度：255                        |
| cidr | 是    | String | 子网网关/掩码<br>最小长度：0<br>最大长度：255                     |
| ip   | 否    | String | 虚拟机IP地址，如果没有这个字段，自动分配IP<br>最小长度：0<br>最大长度：255     |



表 5-310 SgObject

| 参数   | 是否必选 | 参数类型   | 描述                          |
|------|------|--------|-----------------------------|
| id   | 是    | String | 安全组ID<br>最小长度：0<br>最大长度：255 |
| name | 是    | String | 安全组名称<br>最小长度：0<br>最大长度：255 |

表 5-311 PublicIp

| 参数                   | 是否必选 | 参数类型    | 描述                                                                                                                                                                   |
|----------------------|------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type                 | 是    | String  | 弹性公网IP类型，默认为5_bgp<br>最小长度：0<br>最大长度：255                                                                                                                              |
| bandwidth_size       | 是    | Integer | 带宽大小，单位：Mbit/s。<br>调整带宽时的最小单位会根据带宽范围不同存在差异。<br>小于等于300Mbit/s，默认最小单位为1Mbit/s。300Mbit/s~1000Mbit/s，默认最小单位为50Mbit/s。大于1000Mbit/s：默认最小单位为500Mbit/s。<br>最小值：1<br>最大值：2000 |
| bandwidth_share_type | 否    | String  | 带宽共享类型<br>最小长度：0<br>最大长度：255                                                                                                                                         |

表 5-312 TemplateDisk

| 参数 | 是否必选 | 参数类型 | 描述                                           |
|----|------|------|----------------------------------------------|
| id | 否    | Long | 磁盘ID<br>最小值：0<br>最大值：<br>9223372036854775807 |

| 参数         | 是否必选 | 参数类型    | 描述                                                 |
|------------|------|---------|----------------------------------------------------|
| index      | 是    | Integer | 磁盘序号，从0开始<br>最小值：0<br>最大值：2147483647               |
| name       | 是    | String  | 磁盘名称<br>最小长度：0<br>最大长度：255                         |
| disktype   | 是    | String  | 磁盘类型，同volumetype字段<br>最小长度：0<br>最大长度：255           |
| size       | 是    | Long    | 磁盘大小，单位：GB<br>最小值：0<br>最大值：<br>9223372036854775807 |
| device_use | 否    | String  | 磁盘使用<br>最小长度：0<br>最大长度：255                         |

## 响应参数

状态码：200

表 5-313 响应 Body 参数

| 参数 | 参数类型   | 描述     |
|----|--------|--------|
| -  | String | 修改模板信息 |

状态码：403

表 5-314 响应 Body 参数

| 参数         | 参数类型   | 描述                         |
|------------|--------|----------------------------|
| error_code | String | 错误代码<br>最小长度：0<br>最大长度：255 |
| error_msg  | String | 错误信息<br>最小长度：0<br>最大长度：255 |

| 参数                            | 参数类型                            | 描述                                             |
|-------------------------------|---------------------------------|------------------------------------------------|
| encoded_authorization_message | String                          | 加密授权信息<br>最小长度: 0<br>最大长度: 65535               |
| error_param                   | Array of strings                | 错误参数<br>最小长度: 0<br>最大长度: 65535<br>数组长度: 1 - 20 |
| details                       | Array of <b>details</b> objects | 详细错误信息<br>数组长度: 1 - 20                         |

表 5-315 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度: 0<br>最大长度: 65535 |
| error_msg  | String | SMS错误信息<br>最小长度: 0<br>最大长度: 65535 |

## 请求示例

修改源端模板信息，修改ID为dfbdd142-985f-4a4f-93e1-c535b46bxxxx的模板的模板名称为test1025，projectid为00924d0ad2df4f21ac476dd9f3288xxxx

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

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

```

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

```

## 响应示例

**状态码： 403**

鉴权失败

```

{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}

```

## SDK 代码示例

SDK代码示例如下。

### Java

修改源端模板信息，修改ID为dfbdd142-985f-4a4f-93e1-c535b46bxxxx的模板的模板名称为test1025，projectid为00924d0ad2df4f21ac476dd9f3288xxxx

```

package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateTemplateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)

```

```

        .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateTemplateRequest request = new UpdateTemplateRequest();
        request.withId("{id}");
        UpdateTemplateReq body = new UpdateTemplateReq();
        List<TemplateDisk> listTemplateDisk = new ArrayList<>();
        listTemplateDisk.add(
            new TemplateDisk()
                .withIndex(0)
                .withName("index1")
                .withDisktype("type")
                .withSize(111L)
        );
        PublicIp publicIpTemplate = new PublicIp();
        publicIpTemplate.withType("5_bgp")
            .withBandwidthSize(1);
        List<SgObject> listTemplateSecurityGroups = new ArrayList<>();
        listTemplateSecurityGroups.add(
            new SgObject()
                .withId("autoCreate")
                .withName("autoCreate")
        );
        List<Nics> listTemplateNics = new ArrayList<>();
        listTemplateNics.add(
            new Nics()
                .withId("autoCreate")
                .withName("autoCreate")
                .withCidr("192.168.0.0/24")
        );
        VpcObject vpcTemplate = new VpcObject();
        vpcTemplate.withId("autoCreate")
            .withName("autoCreate");
        TemplateRequest templatebody = new TemplateRequest();
        templatebody.withName("test1025")
            .withIsTemplate(false)
            .withRegion("region")
            .withProjectid("xxxxxxxxxxxxxxxxxxxxxxxx00000001")
            .withVpc(vpcTemplate)
            .withNics(listTemplateNics)
            .withSecurityGroups(listTemplateSecurityGroups)
            .withPublicip(publicIpTemplate)
            .withDisk(listTemplateDisk);
        body.withTemplate(templatebody);
        request.withBody(body);
        try {
            UpdateTemplateResponse response = client.updateTemplate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}

```

## Python

修改源端模板信息，修改ID为dfbdd142-985f-4a4f-93e1-c535b46bxxxx的模板的模板名称为test1025，projectid为00924d0ad2df4f21ac476dd9f3288xxxx

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateTemplateRequest()
        request.id = "{id}"
        listDiskTemplate = [
            TemplateDisk(
                index=0,
                name="index1",
                disktype="type",
                size=111
            )
        ]
        publicIpTemplate = PublicIp(
            type="5_bgp",
            bandwidth_size=1
        )
        listSecurityGroupsTemplate = [
            SgObject(
                id="autoCreate",
                name="autoCreate"
            )
        ]
        listNicsTemplate = [
            Nics(
                id="autoCreate",
                name="autoCreate",
                cidr="192.168.0.0/24"
            )
        ]
        vpcTemplate = VpcObject(
            id="autoCreate",
            name="autoCreate"
        )
        templatebody = TemplateRequest(
            name="test1025",
            is_template=False,
            region="region",
            projectid="xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx00000001",
            vpc=vpcTemplate,
            nics=listNicsTemplate,
            security_groups=listSecurityGroupsTemplate,
```

```

        publicip=publicipTemplate,
        disk=listDiskTemplate
    )
    request.body = UpdateTemplateReq(
        template=templatebody
    )
    response = client.update_template(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)

```

## Go

修改源端模板信息，修改ID为dfbdd142-985f-4a4f-93e1-c535b46bxxxx的模板的模板名称为test1025，projectid为00924d0ad2df4f21ac476dd9f3288xxxx

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateTemplateRequest{
        request.Id = "{id}"
    }
    var listDiskTemplate = []model.TemplateDisk{
        {
            Index: int32(0),
            Name: "index1",
            Disktype: "type",
            Size: int64(111),
        },
    }
    publicipTemplate := &model.PublicIp{
        Type: "5_bgp",
        BandwidthSize: int32(1),
    }
    var listSecurityGroupsTemplate = []model.SgObject{
        {
            Id: "autoCreate",
            Name: "autoCreate",
        },
    }
}

```

```

var listNicsTemplate = []model.Nics{
    {
        Id: "autoCreate",
        Name: "autoCreate",
        Cidr: "192.168.0.0/24",
    },
}
vpcTemplate := &model.VpcObject{
    Id: "autoCreate",
    Name: "autoCreate",
}
templatebody := &model.TemplateRequest{
    Name: "test1025",
    IsTemplate: false,
    Region: "region",
    Projectid: "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    Vpc: vpcTemplate,
    Nics: &listNicsTemplate,
    SecurityGroups: &listSecurityGroupsTemplate,
    Publicip: publicipTemplate,
    Disk: &listDiskTemplate,
}
request.Body = &model.UpdateTemplateReq{
    Template: templatebody,
}
response, err := client.UpdateTemplate(request)
if err == nil {
    fmt.Printf("%v\n", response)
} else {
    fmt.Println(err)
}
}
    
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述     |
|-----|--------|
| 200 | 修改模板信息 |
| 403 | 鉴权失败   |

## 错误码

请参见[错误码](#)。

### 5.6.7 查询指定 ID 的模板中的目的端服务器的密码

#### 功能介绍

查询指定ID的模板中的目的端服务器的密码。

#### 调用方法

请参见[如何调用API](#)。



## URI

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

表 5-316 路径参数

| 参数 | 是否必选 | 参数类型   | 描述                          |
|----|------|--------|-----------------------------|
| id | 是    | String | 模板的ID<br>最小长度：0<br>最大长度：255 |

## 请求参数

表 5-317 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                               |
|--------------|------|--------|----------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | 用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

## 响应参数

状态码：200

表 5-318 响应 Body 参数

| 参数              | 参数类型   | 描述                          |
|-----------------|--------|-----------------------------|
| template_id     | String | 模板ID<br>最小长度：0<br>最大长度：255  |
| target_password | String | 目的端密码<br>最小长度：0<br>最大长度：255 |

状态码：403

表 5-319 响应 Body 参数

| 参数                         | 参数类型                            | 描述                                          |
|----------------------------|---------------------------------|---------------------------------------------|
| error_code                 | String                          | 错误代码<br>最小长度：0<br>最大长度：255                  |
| error_msg                  | String                          | 错误信息<br>最小长度：0<br>最大长度：255                  |
| encoded_authorized_message | String                          | 加密授权信息<br>最小长度：0<br>最大长度：65535              |
| error_param                | Array of strings                | 错误参数<br>最小长度：0<br>最大长度：65535<br>数组长度：1 - 20 |
| details                    | Array of <b>details</b> objects | 详细错误信息<br>数组长度：1 - 20                       |

表 5-320 details

| 参数         | 参数类型   | 描述                              |
|------------|--------|---------------------------------|
| error_code | String | SMS错误代码<br>最小长度：0<br>最大长度：65535 |
| error_msg  | String | SMS错误信息<br>最小长度：0<br>最大长度：65535 |

## 请求示例

查询指定ID的模板中的目的端服务器密码

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

## 响应示例

**状态码： 200**

目的端服务器密码返回值

```
{
  "template_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
```

```
"target_password" : "*****"
}
```

**状态码： 403**

鉴权失败

```
{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ShowTargetPasswordSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowTargetPasswordRequest request = new ShowTargetPasswordRequest();
        request.withId("{id}");
        try {
            ShowTargetPasswordResponse response = client.showTargetPassword(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
        }
    }
}
```

```

        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}

```

## Python

```

# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowTargetPasswordRequest()
        request.id = "{id}"
        response = client.show_target_password(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)

```

## Go

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

```

```
client := sms.NewSmsClient(  
    sms.SmsClientBuilder().  
        WithRegion(region.ValueOf("<YOUR REGION>")).  
        WithCredential(auth).  
        Build())  
  
request := &model.ShowTargetPasswordRequest{  
    request.Id = "{id}"  
}  
response, err := client.ShowTargetPassword(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述          |
|-----|-------------|
| 200 | 目的端服务器密码返回值 |
| 403 | 鉴权失败        |

## 错误码

请参见[错误码](#)。

# 5.7 密钥管理

## 5.7.1 获取 SSL 证书和私钥

### 功能介绍

当迁移采用块级迁移的方式时，安装在源端服务器上的迁移Agent通过SSLSocket同目的端服务器通信，该接口用于下载迁移传输过程所需要的证书和私钥(PEM格式)。

### 调用方法

请参见[如何调用API](#)。

### URI

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

表 5-321 路径参数

| 参数      | 是否必选 | 参数类型   | 描述                           |
|---------|------|--------|------------------------------|
| task_id | 是    | String | 迁移任务ID<br>最小长度：0<br>最大长度：255 |

表 5-322 Query 参数

| 参数                    | 是否必选 | 参数类型    | 描述                    |
|-----------------------|------|---------|-----------------------|
| enable_ca_certificate | 否    | Boolean | 是否生成ca证书<br>缺省值：false |

## 请求参数

表 5-323 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                               |
|--------------|------|--------|--------------------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

## 响应参数

状态码： 200

表 5-324 响应 Body 参数

| 参数          | 参数类型   | 描述                             |
|-------------|--------|--------------------------------|
| cert        | String | 源端证书<br>最小长度：1<br>最大长度：1048576 |
| private_key | String | 源端私钥<br>最小长度：1<br>最大长度：1048576 |

| 参数                      | 参数类型   | 描述                                   |
|-------------------------|--------|--------------------------------------|
| ca                      | String | ca证书<br>最小长度: 1<br>最大长度: 1048576     |
| target_mgmt_cert        | String | 目的端管理层证书<br>最小长度: 1<br>最大长度: 1048576 |
| target_mgmt_private_key | String | 目的端管理层私钥<br>最小长度: 1<br>最大长度: 1048576 |
| target_data_cert        | String | 目的端数据层证书<br>最小长度: 1<br>最大长度: 1048576 |
| target_data_private_key | String | 目的端数据层私钥<br>最小长度: 1<br>最大长度: 1048576 |

状态码: 400

表 5-325 响应 Body 参数

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度: 0<br>最大长度: 255   |
| error_msg  | String | 错误信息<br>最小长度: 0<br>最大长度: 1024 |

状态码: 401

表 5-326 响应 Body 参数

| 参数         | 参数类型   | 描述                          |
|------------|--------|-----------------------------|
| error_code | String | 错误码<br>最小长度: 0<br>最大长度: 255 |

| 参数        | 参数类型   | 描述                            |
|-----------|--------|-------------------------------|
| error_msg | String | 错误信息<br>最小长度: 0<br>最大长度: 1024 |

状态码: 403

表 5-327 响应 Body 参数

| 参数                         | 参数类型                                     | 描述                                             |
|----------------------------|------------------------------------------|------------------------------------------------|
| error_code                 | String                                   | 错误代码<br>最小长度: 0<br>最大长度: 255                   |
| error_msg                  | String                                   | 错误信息<br>最小长度: 0<br>最大长度: 255                   |
| encoded_authorized_message | String                                   | 加密授权信息<br>最小长度: 0<br>最大长度: 65535               |
| error_param                | Array of strings                         | 错误参数<br>最小长度: 0<br>最大长度: 65535<br>数组长度: 1 - 20 |
| details                    | Array of <a href="#">details</a> objects | 详细错误信息<br>数组长度: 1 - 20                         |

表 5-328 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度: 0<br>最大长度: 65535 |
| error_msg  | String | SMS错误信息<br>最小长度: 0<br>最大长度: 65535 |



**状态码： 404**

**表 5-329 响应 Body 参数**

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度： 0<br>最大长度： 255   |
| error_msg  | String | 错误信息<br>最小长度： 0<br>最大长度： 1024 |

**状态码： 500**

**表 5-330 响应 Body 参数**

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度： 0<br>最大长度： 255   |
| error_msg  | String | 错误信息<br>最小长度： 0<br>最大长度： 1024 |

**请求示例**

获取迁移任务需要用到的证书和私钥

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

**响应示例**

**状态码： 200**

获取SSL证书和私钥成功

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

```
PRIVATE KEY-----"
}
```

**状态码： 403**

鉴权失败

```
{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have
permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ShowCertKeySolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowCertKeyRequest request = new ShowCertKeyRequest();
        request.withTaskId("{task_id}");
        try {
            ShowCertKeyResponse response = client.showCertKey(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
        }
    }
}
```

```

        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}

```

## Python

```

# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowCertKeyRequest()
        request.task_id = "{task_id}"
        response = client.show_cert_key(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)

```

## Go

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

```

```
client := sms.NewSmsClient(  
    sms.SmsClientBuilder().  
        WithRegion(region.ValueOf("<YOUR REGION>")).  
        WithCredential(auth).  
        Build())  
  
request := &model.ShowCertKeyRequest{}  
request.TaskId = "{task_id}"  
response, err := client.ShowCertKey(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述                    |
|-----|-----------------------|
| 200 | 获取SSL证书和私钥成功          |
| 400 | Bad Request           |
| 401 | Unauthorized          |
| 403 | 鉴权失败                  |
| 404 | Not Found             |
| 500 | Internal Server Error |

## 错误码

请参见[错误码](#)。

## 5.7.2 计算 sha256

### 功能介绍

计算sha256，加密字段值为uuid。

### 调用方法

请参见[如何调用API](#)。

### URI

GET /v3/sha256/{key}

表 5-331 路径参数

| 参数  | 是否必选 | 参数类型   | 描述                                      |
|-----|------|--------|-----------------------------------------|
| key | 是    | String | 关键字，加密字段值为uuid。<br>最小长度：1<br>最大长度：16384 |

## 请求参数

表 5-332 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                   |
|--------------|------|--------|--------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | 用户Token。<br>通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

## 响应参数

状态码： 200

表 5-333 响应 Body 参数

| 参数    | 参数类型   | 描述                                |
|-------|--------|-----------------------------------|
| value | String | Sha256值<br>最小长度：1<br>最大长度：1048576 |

## 请求示例

计算sha256

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

## 响应示例

状态码： 200

计算sha256成功

```
{
  "value": "xxxxxxxxxxxx"
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ShowSha256Solution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowSha256Request request = new ShowSha256Request();
        request.withKey("{key}");
        try {
            ShowSha256Response response = client.showSha256(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

### Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.

# In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD\_SDK\_AK and CLOUD\_SDK\_SK in the local environment

```
ak = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]

credentials = GlobalCredentials(ak, sk)

client = SmsClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(SmsRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = ShowSha256Request()
    request.key = "{key}"
    response = client.show_sha256(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowSha256Request{}
    request.Key = "{key}"
    response, err := client.ShowSha256(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述         |
|-----|------------|
| 200 | 计算sha256成功 |

## 错误码

请参见[错误码](#)。

# 5.8 迁移项目管理

## 5.8.1 新建迁移项目

### 功能介绍

新建迁移项目。

### 接口约束

迁移项目不可与已有的迁移项目同名。

### 调用方法

请参见[如何调用API](#)。

### URI

POST /v3/migprojects



## 请求参数

表 5-334 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                               |
|--------------|------|--------|--------------------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

表 5-335 请求 Body 参数

| 参数                  | 是否必选 | 参数类型    | 描述                                   |
|---------------------|------|---------|--------------------------------------|
| name                | 是    | String  | 迁移项目名称<br>最小长度：2<br>最大长度：19          |
| description         | 否    | String  | 迁移项目描述<br>最小长度：0<br>最大长度：255         |
| isdefault           | 否    | Boolean | 是否为默认模板<br>缺省值：false                 |
| region              | 是    | String  | 区域名称<br>最小长度：0<br>最大长度：255           |
| start_target_server | 否    | Boolean | 迁移后是否启动目的端虚拟机<br>缺省值：true            |
| speed_limit         | 否    | Integer | 限制迁移速率，单位：Mbps<br>最小值：0<br>最大值：10000 |
| use_public_ip       | 是    | Boolean | 是否使用公网IP迁移<br>缺省值：true               |
| exist_server        | 是    | Boolean | 是否是已经存在的服务器<br>缺省值：true              |

| 参数                  | 是否必选 | 参数类型    | 描述                                                                                                                                                                            |
|---------------------|------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type                | 是    | String  | 迁移项目类型<br>MIGRATE_BLOCK:块级迁移<br>MIGRATE_FILE:文件级迁移<br>最小长度：0<br>最大长度：255<br>枚举值：<br><ul style="list-style-type: none"> <li>• MIGRATE_BLOCK</li> <li>• MIGRATE_FILE</li> </ul> |
| enterprise_project  | 否    | String  | 企业项目名称<br>缺省值： <b>default</b><br>最小长度：0<br>最大长度：255                                                                                                                           |
| syncing             | 是    | Boolean | 首次复制或者同步后 是否继续持续同步<br>缺省值： <b>false</b>                                                                                                                                       |
| start_network_check | 否    | Boolean | 是否启动网络质量检测                                                                                                                                                                    |

## 响应参数

状态码：200

表 5-336 响应 Body 参数

| 参数 | 参数类型   | 描述                                         |
|----|--------|--------------------------------------------|
| id | String | 创建迁移项目返回的新添加的迁移项目的id<br>最小长度：0<br>最大长度：255 |

状态码：403

表 5-337 响应 Body 参数

| 参数         | 参数类型   | 描述                         |
|------------|--------|----------------------------|
| error_code | String | 错误代码<br>最小长度：0<br>最大长度：255 |

| 参数                            | 参数类型                            | 描述                                             |
|-------------------------------|---------------------------------|------------------------------------------------|
| error_msg                     | String                          | 错误信息<br>最小长度: 0<br>最大长度: 255                   |
| encoded_authorization_message | String                          | 加密授权信息<br>最小长度: 0<br>最大长度: 65535               |
| error_param                   | Array of strings                | 错误参数<br>最小长度: 0<br>最大长度: 65535<br>数组长度: 1 - 20 |
| details                       | Array of <b>details</b> objects | 详细错误信息<br>数组长度: 1 - 20                         |

表 5-338 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度: 0<br>最大长度: 65535 |
| error_msg  | String | SMS错误信息<br>最小长度: 0<br>最大长度: 65535 |

## 请求示例

新建迁移项目。新的迁移项目名称是N121，region信息是region，使用公网ip是true，迁移项目类型是MIGRATE\_BLOCK

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

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

## 响应示例

**状态码： 200**

新建迁移项目成功

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

**状态码： 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

新建迁移项目。新的迁移项目名称是N121，region信息是region，使用公网ip是true，迁移项目类型是MIGRATE\_BLOCK

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class CreateMigprojectSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
    }
}
```

```
CreateMigprojectRequest request = new CreateMigprojectRequest();
PostMigProjectBody body = new PostMigProjectBody();
body.withSyncing(false);
body.withEnterpriseProject("default");
body.withType(PostMigProjectBody.TypeEnum.fromValue("MIGRATE_BLOCK"));
body.withExistServer(true);
body.withUsePublicIp(true);
body.withSpeedLimit(0);
body.withStartTargetServer(true);
body.withRegion("region");
body.withIsdefault(true);
body.withDescription("");
body.withName("N121");
request.withBody(body);
try {
    CreateMigprojectResponse response = client.createMigproject(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

## Python

新建迁移项目。新的迁移项目名称是N121，region信息是region，使用公网ip是true，迁移项目类型是MIGRATE\_BLOCK

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateMigprojectRequest()
        request.body = PostMigProjectBody(
            syncing=False,
            enterprise_project="default",
            type="MIGRATE_BLOCK",
            exist_server=True,
            use_public_ip=True,
            speed_limit=0,

```

```

        start_target_server=True,
        region="region",
        isdefault=True,
        description="",
        name="N121"
    )
    response = client.create_migproject(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)

```

## Go

新建迁移项目。新的迁移项目名称是N121，region信息是region，使用公网ip是true，迁移项目类型是MIGRATE\_BLOCK

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateMigprojectRequest{
        enterpriseProjectPostMigProjectBody:= "default"
        speedLimitPostMigProjectBody:= int32(0)
        startTargetServerPostMigProjectBody:= true
        isdefaultPostMigProjectBody:= true
        descriptionPostMigProjectBody:= ""
        request.Body = &model.PostMigProjectBody{
            Syncing: false,
            EnterpriseProject: &enterpriseProjectPostMigProjectBody,
            Type: model.GetPostMigProjectBodyTypeEnum().MIGRATE_BLOCK,
            ExistServer: true,
            UsePublicIp: true,
            SpeedLimit: &speedLimitPostMigProjectBody,
            StartTargetServer: &startTargetServerPostMigProjectBody,
            Region: "region",
            Isdefault: &isdefaultPostMigProjectBody,
            Description: &descriptionPostMigProjectBody,
            Name: "N121",
        }
    }
    response, err := client.CreateMigproject(request)

```

```
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述       |
|-----|----------|
| 200 | 新建迁移项目成功 |
| 403 | 鉴权失败     |

## 错误码

请参见[错误码](#)。

## 5.8.2 获取项目列表

### 功能介绍

主机迁移服务中可以使用迁移项目来对源端进行项目管理，使用该接口获取当前账户下所有的迁移项目列表。

### 调用方法

请参见[如何调用API](#)。

### URI

GET /v3/migprojects

表 5-339 Query 参数

| 参数    | 是否必选 | 参数类型    | 描述                                       |
|-------|------|---------|------------------------------------------|
| limit | 否    | Integer | 每一页记录的迁移项目<br>最小值：0<br>最大值：100<br>缺省值：50 |

| 参数     | 是否必选 | 参数类型    | 描述                                    |
|--------|------|---------|---------------------------------------|
| offset | 否    | Integer | 偏移量<br>最小值: 0<br>最大值: 65535<br>缺省值: 0 |

## 请求参数

表 5-340 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                                 |
|--------------|------|--------|----------------------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度: 1<br>最大长度: 16384 |

## 响应参数

状态码: 200

表 5-341 响应 Body 参数

| 参数          | 参数类型                                                     | 描述                                       |
|-------------|----------------------------------------------------------|------------------------------------------|
| count       | Integer                                                  | 查询到的迁移项目的数量<br>最小值: 0<br>最大值: 2147483647 |
| migprojects | Array of <a href="#">MigprojectsResponseBody</a> objects | 查询到的迁移项目详情<br>数组长度: 0 - 65535            |

表 5-342 MigprojectsResponseBody

| 参数 | 参数类型   | 描述                             |
|----|--------|--------------------------------|
| id | String | 迁移项目ID<br>最小长度: 1<br>最大长度: 254 |



| 参数                  | 参数类型    | 描述                                                                                                                                                          |
|---------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name                | String  | 迁移项目名称<br>最小长度：2<br>最大长度：19                                                                                                                                 |
| use_public_ip       | Boolean | 是否使用公网IP迁移                                                                                                                                                  |
| isdefault           | Boolean | 是否为默认模板                                                                                                                                                     |
| start_target_server | Boolean | 迁移后是否启动目的端虚拟机                                                                                                                                               |
| region              | String  | 区域名称<br>最小长度：0<br>最大长度：255                                                                                                                                  |
| speed_limit         | Integer | 模板中配置的限速信息，单位：Mbps<br>最小值：0<br>最大值：10000                                                                                                                    |
| exist_server        | Boolean | 迁移项目下是否存在服务器                                                                                                                                                |
| description         | String  | 迁移项目描述<br>最小长度：0<br>最大长度：255                                                                                                                                |
| type                | String  | 迁移项目默认迁移类型<br>MIGRATE_BLOCK:块级迁移<br>MIGRATE_FILE:文件级迁移<br>枚举值：<br><ul style="list-style-type: none"> <li>• MIGRATE_BLOCK</li> <li>• MIGRATE_FILE</li> </ul> |
| enterprise_project  | String  | 迁移项目所属的企业项目名称<br>最小长度：0<br>最大长度：255                                                                                                                         |
| syncing             | Boolean | 是否持续同步                                                                                                                                                      |
| start_network_check | Boolean | 是否开启网络质量检测                                                                                                                                                  |

状态码： 403

表 5-343 响应 Body 参数

| 参数                         | 参数类型                            | 描述                                          |
|----------------------------|---------------------------------|---------------------------------------------|
| error_code                 | String                          | 错误代码<br>最小长度：0<br>最大长度：255                  |
| error_msg                  | String                          | 错误信息<br>最小长度：0<br>最大长度：255                  |
| encoded_authorized_message | String                          | 加密授权信息<br>最小长度：0<br>最大长度：65535              |
| error_param                | Array of strings                | 错误参数<br>最小长度：0<br>最大长度：65535<br>数组长度：1 - 20 |
| details                    | Array of <b>details</b> objects | 详细错误信息<br>数组长度：1 - 20                       |

表 5-344 details

| 参数         | 参数类型   | 描述                              |
|------------|--------|---------------------------------|
| error_code | String | SMS错误代码<br>最小长度：0<br>最大长度：65535 |
| error_msg  | String | SMS错误信息<br>最小长度：0<br>最大长度：65535 |

## 请求示例

获取迁移项目列表

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

## 响应示例

**状态码： 200**

获取项目列表成功

```
{
  "count" : 6,
```

```

"migprojects": [ {
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name": "sms_test",
  "use_public_ip": true,
  "isdefault": true,
  "start_target_server": true,
  "region": "06334e957c80d2642f39c0030856abdb",
  "speed_limit": 0,
  "exist_server": true,
  "description": "",
  "type": "MIGRATE_BLOCK",
  "enterprise_project": "default"
}, {
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name": "SystemProject",
  "use_public_ip": true,
  "isdefault": false,
  "start_target_server": true,
  "region": "region",
  "speed_limit": 0,
  "exist_server": true,
  "description": "",
  "type": "MIGRATE_BLOCK",
  "enterprise_project": "default"
}, {
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name": "sms_test",
  "use_public_ip": true,
  "isdefault": false,
  "start_target_server": true,
  "region": "region",
  "speed_limit": 0,
  "exist_server": true,
  "description": "",
  "type": "MIGRATE_BLOCK",
  "enterprise_project": "default"
}, {
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name": "sms_test_Test",
  "use_public_ip": true,
  "isdefault": false,
  "start_target_server": true,
  "region": "region",
  "speed_limit": 0,
  "exist_server": true,
  "description": "",
  "type": "MIGRATE_BLOCK",
  "enterprise_project": "default"
}, {
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name": "sms_test002",
  "use_public_ip": true,
  "isdefault": false,
  "start_target_server": true,
  "region": "region",
  "speed_limit": 0,
  "exist_server": true,
  "description": "",
  "type": "MIGRATE_BLOCK",
  "enterprise_project": "default"
}, {
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name": "sms_test003",
  "use_public_ip": true,
  "isdefault": false,
  "start_target_server": true,
  "region": "region",
  "speed_limit": 0,
  "exist_server": true,

```

```
"description" : "",
"type" : "MIGRATE_BLOCK",
"enterprise_project" : "default"
}]
}
```

### 状态码： 403

#### 鉴权失败

```
{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ListMigprojectsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        ListMigprojectsRequest request = new ListMigprojectsRequest();
        try {
            ListMigprojectsResponse response = client.listMigprojects(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
        }
    }
}
```

```

        e.printStackTrace();
        System.out.println(e.getStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}

```

## Python

```

# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListMigprojectsRequest()
        response = client.list_migprojects(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)

```

## Go

```

package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).

```

```
Build()

client := sms.NewSmsClient(
    sms.SmsClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ListMigprojectsRequest{}
response, err := client.ListMigprojects(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述       |
|-----|----------|
| 200 | 获取项目列表成功 |
| 403 | 鉴权失败     |

## 错误码

请参见[错误码](#)。

## 5.8.3 查询指定 ID 迁移项目详情

### 功能介绍

查询指定ID的迁移项目详情。

### 调用方法

请参见[如何调用API](#)。

### URI

GET /v3/migprojects/{mig\_project\_id}

表 5-345 路径参数

| 参数             | 是否必选 | 参数类型   | 描述                           |
|----------------|------|--------|------------------------------|
| mig_project_id | 是    | String | 迁移项目ID<br>最小长度：0<br>最大长度：255 |

## 请求参数

表 5-346 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                   |
|--------------|------|--------|--------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | 用户Token。<br>通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

## 响应参数

状态码： 200

表 5-347 响应 Body 参数

| 参数          | 参数类型    | 描述                           |
|-------------|---------|------------------------------|
| id          | String  | 迁移项目ID<br>最小长度：1<br>最大长度：254 |
| name        | String  | 迁移项目名称<br>最小长度：2<br>最大长度：19  |
| description | String  | 迁移项目描述<br>最小长度：0<br>最大长度：255 |
| isdefault   | Boolean | 是否为默认模板<br>缺省值：false         |

| 参数                  | 参数类型    | 描述                                                                                                                                                                    |
|---------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| region              | String  | 区域名称<br>最小长度: 0<br>最大长度: 255                                                                                                                                          |
| start_target_server | Boolean | 迁移后是否启动目的端虚拟机<br>缺省值: <b>true</b>                                                                                                                                     |
| speed_limit         | Integer | 限制迁移速率, 单位: Mbps<br>最小值: 0<br>最大值: 10000                                                                                                                              |
| use_public_ip       | Boolean | 是否使用公网IP迁移<br>缺省值: <b>true</b>                                                                                                                                        |
| exist_server        | Boolean | 是否是已经存在的服务器<br>缺省值: <b>true</b>                                                                                                                                       |
| type                | String  | 迁移项目类型<br>MIGRATE_BLOCK:块级迁移<br>MIGRATE_FILE:文件级迁移<br>枚举值:<br><ul style="list-style-type: none"> <li>• <b>MIGRATE_BLOCK</b></li> <li>• <b>MIGRATE_FILE</b></li> </ul> |
| enterprise_project  | String  | 企业项目名称<br>缺省值: <b>default</b><br>最小长度: 0<br>最大长度: 255                                                                                                                 |
| syncing             | Boolean | 首次复制或者同步后 是否继续持续同步<br>缺省值: <b>false</b>                                                                                                                               |
| start_network_check | Boolean | 是否启动网络质量检测                                                                                                                                                            |

状态码: 403

表 5-348 响应 Body 参数

| 参数         | 参数类型   | 描述                           |
|------------|--------|------------------------------|
| error_code | String | 错误代码<br>最小长度: 0<br>最大长度: 255 |



| 参数                         | 参数类型                            | 描述                                             |
|----------------------------|---------------------------------|------------------------------------------------|
| error_msg                  | String                          | 错误信息<br>最小长度: 0<br>最大长度: 255                   |
| encoded_authorized_message | String                          | 加密授权信息<br>最小长度: 0<br>最大长度: 65535               |
| error_param                | Array of strings                | 错误参数<br>最小长度: 0<br>最大长度: 65535<br>数组长度: 1 - 20 |
| details                    | Array of <b>details</b> objects | 详细错误信息<br>数组长度: 1 - 20                         |

表 5-349 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度: 0<br>最大长度: 65535 |
| error_msg  | String | SMS错误信息<br>最小长度: 0<br>最大长度: 65535 |

## 请求示例

查询项目ID为137224b7-8d7c-4919-b33e-ed159778d7a7的项目

```
GET https://{endpoint}/v3/migprojects/137224b7-8d7c-4919-b33e-ed159778d7a7
```

## 响应示例

状态码: 200

查询指定ID迁移项目详情成功

```
{
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name": "456",
  "isdefault": true,
  "region": null,
  "start_target_server": false,
  "speed_limit": 0,
  "use_public_ip": true
}
```

**状态码： 403**

## 鉴权失败

```
{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have
permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

**SDK 代码示例**

SDK代码示例如下。

**Java**

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ShowMigprojectSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowMigprojectRequest request = new ShowMigprojectRequest();
        request.withMigProjectId("{mig_project_id}");
        try {
            ShowMigprojectResponse response = client.showMigproject(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

```
}
}
}
```

## Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowMigprojectRequest()
        request.mig_project_id = "{mig_project_id}"
        response = client.show_migproject(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
```

```
WithRegion(region.ValueOf("<YOUR REGION>")).  
WithCredential(auth).  
Build()  
  
request := &model.ShowMigprojectRequest{}  
request.MigProjectId = "{mig_project_id}"  
response, err := client.ShowMigproject(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述             |
|-----|----------------|
| 200 | 查询指定ID迁移项目详情成功 |
| 403 | 鉴权失败           |

## 错误码

请参见[错误码](#)。

## 5.8.4 删除迁移项目

### 功能介绍

删除指定ID的迁移项目。

### 接口约束

迁移项目下没有服务器时可以删除该项目。

### 调用方法

请参见[如何调用API](#)。

### URI

DELETE /v3/migprojects/{mig\_project\_id}

表 5-350 路径参数

| 参数             | 是否必选 | 参数类型   | 描述                                 |
|----------------|------|--------|------------------------------------|
| mig_project_id | 是    | String | 需要删除的迁移项目的ID<br>最小长度：0<br>最大长度：255 |

## 请求参数

表 5-351 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                               |
|--------------|------|--------|--------------------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

## 响应参数

状态码： 200

表 5-352 响应 Body 参数

| 参数 | 参数类型   | 描述       |
|----|--------|----------|
| -  | String | 删除迁移项目成功 |

状态码： 403

表 5-353 响应 Body 参数

| 参数         | 参数类型   | 描述                         |
|------------|--------|----------------------------|
| error_code | String | 错误代码<br>最小长度：0<br>最大长度：255 |
| error_msg  | String | 错误信息<br>最小长度：0<br>最大长度：255 |

| 参数                            | 参数类型                            | 描述                                             |
|-------------------------------|---------------------------------|------------------------------------------------|
| encoded_authorization_message | String                          | 加密授权信息<br>最小长度: 0<br>最大长度: 65535               |
| error_param                   | Array of strings                | 错误参数<br>最小长度: 0<br>最大长度: 65535<br>数组长度: 1 - 20 |
| details                       | Array of <b>details</b> objects | 详细错误信息<br>数组长度: 1 - 20                         |

表 5-354 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度: 0<br>最大长度: 65535 |
| error_msg  | String | SMS错误信息<br>最小长度: 0<br>最大长度: 65535 |

## 请求示例

删除项目ID为137224b7-8d7c-4919-b33e-ed159778d7a7的项目

```
DELETE https://{endpoint}/v3/migprojects/137224b7-8d7c-4919-b33e-ed159778d7a7
```

## 响应示例

**状态码: 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class DeleteMigprojectSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteMigprojectRequest request = new DeleteMigprojectRequest();
        request.withMigProjectId("{mig_project_id}");
        try {
            DeleteMigprojectResponse response = client.deleteMigproject(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

### Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.

# In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD\_SDK\_AK and CLOUD\_SDK\_SK in the local environment

```
ak = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]

credentials = GlobalCredentials(ak, sk)

client = SmsClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(SmsRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = DeleteMigprojectRequest()
    request.mig_project_id = "{mig_project_id}"
    response = client.delete_migproject(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteMigprojectRequest{}
    request.MigProjectId = "{mig_project_id}"
    response, err := client.DeleteMigproject(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```



## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述       |
|-----|----------|
| 200 | 删除迁移项目成功 |
| 403 | 鉴权失败     |

## 错误码

请参见[错误码](#)。

## 5.8.5 更新迁移项目信息

### 功能介绍

更新迁移项目的信息。

### 调用方法

请参见[如何调用API](#)。

### URI

PUT /v3/migprojects/{mig\_project\_id}

表 5-355 路径参数

| 参数             | 是否必选 | 参数类型   | 描述                           |
|----------------|------|--------|------------------------------|
| mig_project_id | 是    | String | 迁移项目ID<br>最小长度：0<br>最大长度：255 |

## 请求参数

表 5-356 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                               |
|--------------|------|--------|--------------------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

表 5-357 请求 Body 参数

| 参数                  | 是否必选 | 参数类型    | 描述                                   |
|---------------------|------|---------|--------------------------------------|
| id                  | 否    | String  | 迁移项目ID<br>最小长度：1<br>最大长度：254         |
| name                | 是    | String  | 迁移项目名称<br>最小长度：2<br>最大长度：19          |
| description         | 否    | String  | 迁移项目描述<br>最小长度：0<br>最大长度：255         |
| isdefault           | 否    | Boolean | 是否为默认模板<br>缺省值：false                 |
| region              | 是    | String  | 区域名称<br>最小长度：0<br>最大长度：255           |
| start_target_server | 否    | Boolean | 迁移后是否启动目的端虚拟机<br>缺省值：true            |
| speed_limit         | 否    | Integer | 限制迁移速率，单位：Mbps<br>最小值：0<br>最大值：10000 |
| use_public_ip       | 是    | Boolean | 是否使用公网IP迁移<br>缺省值：true               |

| 参数                  | 是否必选 | 参数类型    | 描述                                                                                                                                                                    |
|---------------------|------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| exist_server        | 是    | Boolean | 是否是已经存在的服务器<br>缺省值: <b>true</b>                                                                                                                                       |
| type                | 是    | String  | 迁移项目类型<br>MIGRATE_BLOCK:块级迁移<br>MIGRATE_FILE:文件级迁移<br>枚举值:<br><ul style="list-style-type: none"> <li>• <b>MIGRATE_BLOCK</b></li> <li>• <b>MIGRATE_FILE</b></li> </ul> |
| enterprise_project  | 否    | String  | 企业项目名称<br>缺省值: <b>default</b><br>最小长度: <b>0</b><br>最大长度: <b>255</b>                                                                                                   |
| syncing             | 是    | Boolean | 首次复制或者同步后 是否继续持续同步<br>缺省值: <b>false</b>                                                                                                                               |
| start_network_check | 否    | Boolean | 是否启动网络质量检测                                                                                                                                                            |

## 响应参数

状态码: 200

表 5-358 响应 Body 参数

| 参数 | 参数类型   | 描述           |
|----|--------|--------------|
| -  | String | 修改默认迁移项目信息成功 |

状态码: 403

表 5-359 响应 Body 参数

| 参数         | 参数类型   | 描述                                         |
|------------|--------|--------------------------------------------|
| error_code | String | 错误代码<br>最小长度: <b>0</b><br>最大长度: <b>255</b> |

| 参数                         | 参数类型                            | 描述                                             |
|----------------------------|---------------------------------|------------------------------------------------|
| error_msg                  | String                          | 错误信息<br>最小长度: 0<br>最大长度: 255                   |
| encoded_authorized_message | String                          | 加密授权信息<br>最小长度: 0<br>最大长度: 65535               |
| error_param                | Array of strings                | 错误参数<br>最小长度: 0<br>最大长度: 65535<br>数组长度: 1 - 20 |
| details                    | Array of <b>details</b> objects | 详细错误信息<br>数组长度: 1 - 20                         |

表 5-360 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度: 0<br>最大长度: 65535 |
| error_msg  | String | SMS错误信息<br>最小长度: 0<br>最大长度: 65535 |

## 请求示例

修改ID为9879f7aa-3347-47fb-8f89-6070f9e0xxxx的迁移项目信息，新的迁移项目名称是225，region信息是region，限制速度为100M/s，迁移类型是MIGRATE\_FILE文件级迁移

```
PUT https://{endpoint}/v3/migprojects/9879f7aa-3347-47fb-8f89-6070f9e0xxxx
```

```
{
  "name": 225,
  "region": "region",
  "description": "hello",
  "start_target_server": true,
  "speed_limit": 100,
  "use_public_ip": true,
  "exist_server": true,
  "type": "MIGRATE_FILE",
  "syncing": false
}
```

## 响应示例

**状态码： 403**

鉴权失败

```
{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have
permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

修改ID为9879f7aa-3347-47fb-8f89-6070f9e0xxxx的迁移项目信息，新的迁移项目名称是225，region信息是region，限制速度为100M/s，迁移类型是MIGRATE\_FILE文件级迁移

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class UpdateMigprojectSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateMigprojectRequest request = new UpdateMigprojectRequest();
        request.withMigProjectId("{mig_project_id}");
        MigProject body = new MigProject();
        body.withSyncing(false);
        body.withType(MigProject.TypeEnum.fromValue("MIGRATE_FILE"));
        body.withExistServer(true);
        body.withUsePublicIp(true);
    }
}
```

```
body.withSpeedLimit(100);
body.withStartTargetServer(true);
body.withRegion("region");
body.withDescription("hello");
body.withName("225");
request.withBody(body);
try {
    UpdateMigprojectResponse response = client.updateMigproject(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

## Python

修改ID为9879f7aa-3347-47fb-8f89-6070f9e0xxxx的迁移项目信息，新的迁移项目名称是225，region信息是region，限制速度为100M/s，迁移类型是MIGRATE\_FILE文件级迁移

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateMigprojectRequest()
        request.mig_project_id = "{mig_project_id}"
        request.body = MigProject(
            syncing=False,
            type="MIGRATE_FILE",
            exist_server=True,
            use_public_ip=True,
            speed_limit=100,
            start_target_server=True,
            region="region",
            description="hello",
            name="225"
        )
        response = client.update_migproject(request)
```

```
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

修改ID为9879f7aa-3347-47fb-8f89-6070f9e0xxxx的迁移项目信息，新的迁移项目名称是225，region信息是region，限制速度为100M/s，迁移类型是MIGRATE\_FILE文件级迁移

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateMigprojectRequest{}
    request.MigProjectId = "{mig_project_id}"
    speedLimitMigProject := int32(100)
    startTargetServerMigProject := true
    descriptionMigProject := "hello"
    request.Body = &model.MigProject{
        Syncing: false,
        Type: model.GetMigProjectTypeEnum().MIGRATE_FILE,
        ExistServer: true,
        UsePublicIp: true,
        SpeedLimit: &speedLimitMigProject,
        StartTargetServer: &startTargetServerMigProject,
        Region: "region",
        Description: &descriptionMigProject,
        Name: "225",
    }
    response, err := client.UpdateMigproject(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述           |
|-----|--------------|
| 200 | 修改默认迁移项目信息成功 |
| 403 | 鉴权失败         |

## 错误码

请参见[错误码](#)。

## 5.8.6 更新默认迁移项目

### 功能介绍

更改默认迁移项目，注册源端会注册在当前的默认项目下。

### 调用方法

请参见[如何调用API](#)。

### URI

PUT /v3/migprojects/{mig\_project\_id}/default

表 5-361 路径参数

| 参数             | 是否必选 | 参数类型   | 描述                           |
|----------------|------|--------|------------------------------|
| mig_project_id | 是    | String | 迁移项目ID<br>最小长度：0<br>最大长度：255 |



## 请求参数

表 5-362 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                               |
|--------------|------|--------|--------------------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token<br>用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

## 响应参数

状态码：200

表 5-363 响应 Body 参数

| 参数 | 参数类型   | 描述         |
|----|--------|------------|
| -  | String | 更改默认迁移项目成功 |

状态码：403

表 5-364 响应 Body 参数

| 参数                            | 参数类型             | 描述                                          |
|-------------------------------|------------------|---------------------------------------------|
| error_code                    | String           | 错误代码<br>最小长度：0<br>最大长度：255                  |
| error_msg                     | String           | 错误信息<br>最小长度：0<br>最大长度：255                  |
| encoded_authorization_message | String           | 加密授权信息<br>最小长度：0<br>最大长度：65535              |
| error_param                   | Array of strings | 错误参数<br>最小长度：0<br>最大长度：65535<br>数组长度：1 - 20 |

| 参数      | 参数类型                            | 描述                     |
|---------|---------------------------------|------------------------|
| details | Array of <b>details</b> objects | 详细错误信息<br>数组长度: 1 - 20 |

表 5-365 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度: 0<br>最大长度: 65535 |
| error_msg  | String | SMS错误信息<br>最小长度: 0<br>最大长度: 65535 |

## 请求示例

更改默认迁移项目，将默认迁移项目设置为137224b7-8d7c-4919-b33e-ed159778xxx

```
PUT https://{endpoint}/v3/migprojects/137224b7-8d7c-4919-b33e-ed159778xxxx/default
```

## 响应示例

**状态码: 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
```

```
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class UpdateDefaultMigprojectSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateDefaultMigprojectRequest request = new UpdateDefaultMigprojectRequest();
        request.withMigProjectId("{mig_project_id}");
        try {
            UpdateDefaultMigprojectResponse response = client.updateDefaultMigproject(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()
```

```
try:
    request = UpdateDefaultMigprojectRequest()
    request.mig_project_id = "{mig_project_id}"
    response = client.update_default_migproject(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateDefaultMigprojectRequest{}
    request.MigProjectId = "{mig_project_id}"
    response, err := client.UpdateDefaultMigproject(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述         |
|-----|------------|
| 200 | 更改默认迁移项目成功 |
| 403 | 鉴权失败       |

## 错误码

请参见[错误码](#)。

## 5.9 网络检测管理

### 5.9.1 更新网络检测相关的信息

#### 功能介绍

Agent 上报网络检测相关的信息。

#### 调用方法

请参见[如何调用API](#)。

#### URI

POST /v3/{task\_id}/update-network-check-info

表 5-366 路径参数

| 参数      | 是否必选 | 参数类型   | 描述                         |
|---------|------|--------|----------------------------|
| task_id | 是    | String | 任务id<br>最小长度：0<br>最大长度：255 |

#### 请求参数

表 5-367 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                               |
|--------------|------|--------|----------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | 用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

表 5-368 请求 Body 参数

| 参数                       | 是否必选 | 参数类型    | 描述                           |
|--------------------------|------|---------|------------------------------|
| domain_connectivity      | 否    | Boolean | 域名连通性                        |
| destination_connectivity | 否    | Boolean | 目的端连通性                       |
| network_delay            | 是    | Double  | 网络时延<br>最小值：0<br>最大值：10000.0 |
| network_jitter           | 是    | Double  | 网络抖动<br>最小值：0<br>最大值：10000   |
| migration_speed          | 是    | Double  | 带宽<br>最小值：0<br>最大值：10000     |
| loss_percentage          | 是    | Double  | 丢包<br>最小值：0<br>最大值：100       |
| cpu_usage                | 是    | Double  | CPU占用<br>最小值：0<br>最大值：100    |
| mem_usage                | 是    | Double  | 内存占用<br>最小值：0<br>最大值：100     |
| evaluation_result        | 是    | String  | 评估结果<br>最小长度：6<br>最大长度：8     |

## 响应参数

状态码：200

表 5-369 响应 Body 参数

| 参数 | 参数类型   | 描述          |
|----|--------|-------------|
| -  | String | 更新网络检测结果成功。 |

**状态码： 400**

**表 5-370 响应 Body 参数**

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度： 0<br>最大长度： 255   |
| error_msg  | String | 错误信息<br>最小长度： 0<br>最大长度： 1024 |

**状态码： 403**

**表 5-371 响应 Body 参数**

| 参数                         | 参数类型                            | 描述                                             |
|----------------------------|---------------------------------|------------------------------------------------|
| error_code                 | String                          | 错误代码<br>最小长度： 0<br>最大长度： 255                   |
| error_msg                  | String                          | 错误信息<br>最小长度： 0<br>最大长度： 255                   |
| encoded_authorized_message | String                          | 加密授权信息<br>最小长度： 0<br>最大长度： 65535               |
| error_param                | Array of strings                | 错误参数<br>最小长度： 0<br>最大长度： 65535<br>数组长度： 1 - 20 |
| details                    | Array of <b>details</b> objects | 详细错误信息<br>数组长度： 1 - 20                         |

表 5-372 details

| 参数         | 参数类型   | 描述                              |
|------------|--------|---------------------------------|
| error_code | String | SMS错误代码<br>最小长度：0<br>最大长度：65535 |
| error_msg  | String | SMS错误信息<br>最小长度：0<br>最大长度：65535 |

状态码：404

表 5-373 响应 Body 参数

| 参数         | 参数类型   | 描述                          |
|------------|--------|-----------------------------|
| error_code | String | 错误码<br>最小长度：0<br>最大长度：255   |
| error_msg  | String | 错误信息<br>最小长度：0<br>最大长度：1024 |

状态码：500

表 5-374 响应 Body 参数

| 参数         | 参数类型   | 描述                          |
|------------|--------|-----------------------------|
| error_code | String | 错误码<br>最小长度：0<br>最大长度：255   |
| error_msg  | String | 错误信息<br>最小长度：0<br>最大长度：1024 |

## 请求示例

更新任务ID为137224b7-8d7c-4919-b33e-ed159778xxxx 的网络质量检测结果。

```
POST https://{endpoint}/v3/137224b7-8d7c-4919-b33e-ed159778xxxx/update-network-check-info
```



```
{
  "network_delay": "20.00",
  "network_jitter": "2.00",
  "migration_speed": "100.00",
  "loss_percentage": "0.00",
  "cpu_usage": "20.00",
  "mem_usage": "20.00",
  "evaluation_result": ""
}
```

## 响应示例

**状态码： 200**

更新网络检测结果成功。

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

**状态码： 403**

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
    "error_msg": "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

更新任务ID为137224b7-8d7c-4919-b33e-ed159778xxxx 的网络质量检测结果。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class UpdateNetworkCheckInfoSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");
```

```

ICredential auth = new GlobalCredentials()
    .withAk(ak)
    .withSk(sk);

SmsClient client = SmsClient.newBuilder()
    .withCredential(auth)
    .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
    .build();
UpdateNetworkCheckInfoRequest request = new UpdateNetworkCheckInfoRequest();
request.withTaskId("{task_id}");
NetworkCheckInfoRequestBody body = new NetworkCheckInfoRequestBody();
body.withEvaluationResult("");
body.withMemUsage((double)20.00);
body.withCpuUsage((double)20.00);
body.withLossPercentage((double)0.00);
body.withMigrationSpeed((double)100.00);
body.withNetworkJitter((double)2.00);
body.withNetworkDelay((double)20.00);
request.withBody(body);
try {
    UpdateNetworkCheckInfoResponse response = client.updateNetworkCheckInfo(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
}

```

## Python

更新任务ID为137224b7-8d7c-4919-b33e-ed159778xxxx 的网络质量检测结果。

```

# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateNetworkCheckInfoRequest()
        request.task_id = "{task_id}"
        request.body = NetworkCheckInfoRequestBody(

```

```
        evaluation_result="",
        mem_usage=20.00,
        cpu_usage=20.00,
        loss_percentage=0.00,
        migration_speed=100.00,
        network_jitter=2.00,
        network_delay=20.00
    )
    response = client.update_network_check_info(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

更新任务ID为137224b7-8d7c-4919-b33e-ed159778xxxx 的网络质量检测结果。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateNetworkCheckInfoRequest{}
    request.TaskId = "{task_id}"
    request.Body = &model.NetworkCheckInfoRequestBody{
        EvaluationResult: "",
        MemUsage: float64(20.00),
        CpuUsage: float64(20.00),
        LossPercentage: float64(0.00),
        MigrationSpeed: float64(100.00),
        NetworkJitter: float64(2.00),
        NetworkDelay: float64(20.00),
    }
    response, err := client.UpdateNetworkCheckInfo(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述          |
|-----|-------------|
| 200 | 更新网络检测结果成功。 |
| 400 | 缺少请求参数。     |
| 403 | 鉴权失败        |
| 404 | 任务不存在       |
| 500 | 更新网络检测结果异常。 |

## 错误码

请参见[错误码](#)。

## 5.10 配置设置管理

### 5.10.1 迁移任务配置设置

#### 功能介绍

配置迁移任务特殊设置，例如配置指定同步的文件或路径

#### 调用方法

请参见[如何调用API](#)。

#### URI

POST /v3/tasks/{task\_id}/configuration-setting

表 5-375 路径参数

| 参数      | 是否必选 | 参数类型   | 描述                         |
|---------|------|--------|----------------------------|
| task_id | 是    | String | 任务id<br>最小长度：0<br>最大长度：255 |

## 请求参数

表 5-376 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                               |
|--------------|------|--------|----------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | 用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

表 5-377 请求 Body 参数

| 参数             | 是否必选 | 参数类型                                        | 描述                   |
|----------------|------|---------------------------------------------|----------------------|
| configurations | 是    | Array of <a href="#">ConfigBody</a> objects | 配置项列表<br>数组长度：0 - 10 |

表 5-378 ConfigBody

| 参数            | 是否必选 | 参数类型   | 描述                                                                                         |
|---------------|------|--------|--------------------------------------------------------------------------------------------|
| config_key    | 是    | String | 配置类型，分为：“EXCLUDE_MIGRATE_PATH”，“SYNC_EXCLUDE_PATH”，“ONLY_SYNC_PATH”等<br>最小长度：0<br>最大长度：255 |
| config_value  | 是    | String | 具体配置参数字段，保存于数据库，最终在agent端进行解析<br>最小长度：0<br>最大长度：1024                                       |
| config_status | 否    | String | 描述配置状态的保留字段<br>最小长度：0<br>最大长度：255                                                          |

## 响应参数

状态码：200

表 5-379 响应 Body 参数

| 参数 | 参数类型   | 描述       |
|----|--------|----------|
| -  | String | 上传相关配置成功 |

状态码： 403

表 5-380 响应 Body 参数

| 参数                         | 参数类型                                     | 描述                                             |
|----------------------------|------------------------------------------|------------------------------------------------|
| error_code                 | String                                   | 错误代码<br>最小长度： 0<br>最大长度： 255                   |
| error_msg                  | String                                   | 错误信息<br>最小长度： 0<br>最大长度： 255                   |
| encoded_authorized_message | String                                   | 加密授权信息<br>最小长度： 0<br>最大长度： 65535               |
| error_param                | Array of strings                         | 错误参数<br>最小长度： 0<br>最大长度： 65535<br>数组长度： 1 - 20 |
| details                    | Array of <a href="#">details</a> objects | 详细错误信息<br>数组长度： 1 - 20                         |

表 5-381 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度： 0<br>最大长度： 65535 |
| error_msg  | String | SMS错误信息<br>最小长度： 0<br>最大长度： 65535 |

状态码： 404

表 5-382 响应 Body 参数

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度: 0<br>最大长度: 255   |
| error_msg  | String | 错误信息<br>最小长度: 0<br>最大长度: 1024 |

状态码: 500

表 5-383 响应 Body 参数

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度: 0<br>最大长度: 255   |
| error_msg  | String | 错误信息<br>最小长度: 0<br>最大长度: 1024 |

## 请求示例

配置迁移任务特殊设置，配置任务是Linux\_CPU\_LIMIT，限制值是50。

POST https://{endpoint}/v3/tasks/{task\_id}/configuration-setting

```
{
  "configurations": [ {
    "config_key": "Linux_CPU_LIMIT",
    "config_value": 50
  } ]
}
```

## 响应示例

状态码: 403

鉴权失败

```
{
  "error_code": "SMS.9004",
  "error_msg": "The current account does not have the permission to execute policy You do not have permission to perform action XXX on resource XXX.",
  "encoded_authorization_message": "XXXXXX",
  "error_param": [ "You do not have permission to perform action XXX on resource XXX." ],
  "details": [ {
    "error_code": "SMS.9004",
```

```
"error_msg": "You do not have permission to perform action XXX on resource XXX."  
}]  
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

配置迁移任务特殊设置，配置任务是Linux\_CPU\_LIMIT，限制值是50。

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.GlobalCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;  
import com.huaweicloud.sdk.sms.v3.*;  
import com.huaweicloud.sdk.sms.v3.model.*;  
  
import java.util.List;  
import java.util.ArrayList;  
  
public class UploadSpecialConfigurationSettingSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
  
        ICredential auth = new GlobalCredentials()  
            .withAk(ak)  
            .withSk(sk);  
  
        SmsClient client = SmsClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))  
            .build();  
        UploadSpecialConfigurationSettingRequest request = new  
        UploadSpecialConfigurationSettingRequest();  
        request.withTaskId("{task_id}");  
        ConfigurationRequestBody body = new ConfigurationRequestBody();  
        List<ConfigBody> listbodyConfigurations = new ArrayList<>();  
        listbodyConfigurations.add(  
            new ConfigBody()  
                .withConfigKey("Linux_CPU_LIMIT")  
                .withConfigValue("50")  
        );  
        body.withConfigurations(listbodyConfigurations);  
        request.withBody(body);  
        try {  
            UploadSpecialConfigurationSettingResponse response =  
            client.uploadSpecialConfigurationSetting(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
        }  
    }  
}
```



```
        System.out.println(e.getStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

## Python

配置迁移任务特殊设置，配置任务是Linux\_CPU\_LIMIT，限制值是50。

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UploadSpecialConfigurationSettingRequest()
        request.task_id = "{task_id}"
        listConfigurationsbody = [
            ConfigBody(
                config_key="Linux_CPU_LIMIT",
                config_value="50"
            )
        ]
        request.body = ConfigurationRequestBody(
            configurations=listConfigurationsbody
        )
        response = client.upload_special_configuration_setting(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

配置迁移任务特殊设置，配置任务是Linux\_CPU\_LIMIT，限制值是50。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
```

```

)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UploadSpecialConfigurationSettingRequest{}
    request.TaskId = "{task_id}"
    var listConfigurationsbody = []model.ConfigBody{
        {
            ConfigKey: "LINUX_CPU_LIMIT",
            ConfigValue: "50",
        },
    }
    request.Body = &model.ConfigurationRequestBody{
        Configurations: listConfigurationsbody,
    }
    response, err := client.UploadSpecialConfigurationSetting(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}

```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述          |
|-----|-------------|
| 200 | 上传相关配置成功    |
| 403 | 鉴权失败        |
| 404 | 任务不存在       |
| 500 | 上传配置设置结果异常。 |

## 错误码

请参见[错误码](#)。

## 5.10.2 查询配置资源

### 功能介绍

使用该接口查询任指定任务的指定配置类型的配置信息

### 调用方法

请参见[如何调用API](#)。

### URI

GET /v3/tasks/{task\_id}/configuration-setting

表 5-384 路径参数

| 参数      | 是否必选 | 参数类型   | 描述                         |
|---------|------|--------|----------------------------|
| task_id | 是    | String | 任务id<br>最小长度：1<br>最大长度：255 |

表 5-385 Query 参数

| 参数         | 是否必选 | 参数类型   | 描述      |
|------------|------|--------|---------|
| config_key | 否    | String | 具体请求配置项 |

### 请求参数

表 5-386 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                                   |
|--------------|------|--------|--------------------------------------------------------------------------------------|
| X-Auth-Token | 是    | String | 用户Token。<br>通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。<br>最小长度：1<br>最大长度：16384 |

### 响应参数

状态码： 200

表 5-387 响应 Body 参数

| 参数             | 参数类型                               | 描述                          |
|----------------|------------------------------------|-----------------------------|
| task_id        | String                             | 任务ID<br>最小长度：0<br>最大长度：100  |
| migrate_type   | String                             | 迁移类型<br>最小长度：0<br>最大长度：255  |
| configurations | Array of <b>ConfigBody</b> objects | 配置项的具体配置信息<br>数组长度：0 - 1000 |

表 5-388 ConfigBody

| 参数            | 参数类型   | 描述                                                                                         |
|---------------|--------|--------------------------------------------------------------------------------------------|
| config_key    | String | 配置类型，分为：“EXCLUDE_MIGRATE_PATH”，“SYNC_EXCLUDE_PATH”，“ONLY_SYNC_PATH”等<br>最小长度：0<br>最大长度：255 |
| config_value  | String | 具体配置参数字段，保存于数据库，最终在agent端进行解析<br>最小长度：0<br>最大长度：1024                                       |
| config_status | String | 描述配置状态的保留字段<br>最小长度：0<br>最大长度：255                                                          |

状态码：400

表 5-389 响应 Body 参数

| 参数         | 参数类型   | 描述                        |
|------------|--------|---------------------------|
| error_code | String | 错误码<br>最小长度：0<br>最大长度：255 |

| 参数        | 参数类型   | 描述                            |
|-----------|--------|-------------------------------|
| error_msg | String | 错误信息<br>最小长度: 0<br>最大长度: 1024 |

状态码: 403

表 5-390 响应 Body 参数

| 参数                         | 参数类型                                     | 描述                                             |
|----------------------------|------------------------------------------|------------------------------------------------|
| error_code                 | String                                   | 错误代码<br>最小长度: 0<br>最大长度: 255                   |
| error_msg                  | String                                   | 错误信息<br>最小长度: 0<br>最大长度: 255                   |
| encoded_authorized_message | String                                   | 加密授权信息<br>最小长度: 0<br>最大长度: 65535               |
| error_param                | Array of strings                         | 错误参数<br>最小长度: 0<br>最大长度: 65535<br>数组长度: 1 - 20 |
| details                    | Array of <a href="#">details</a> objects | 详细错误信息<br>数组长度: 1 - 20                         |

表 5-391 details

| 参数         | 参数类型   | 描述                                |
|------------|--------|-----------------------------------|
| error_code | String | SMS错误代码<br>最小长度: 0<br>最大长度: 65535 |
| error_msg  | String | SMS错误信息<br>最小长度: 0<br>最大长度: 65535 |

**状态码： 404**

**表 5-392 响应 Body 参数**

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度： 0<br>最大长度： 255   |
| error_msg  | String | 错误信息<br>最小长度： 0<br>最大长度： 1024 |

**状态码： 500**

**表 5-393 响应 Body 参数**

| 参数         | 参数类型   | 描述                            |
|------------|--------|-------------------------------|
| error_code | String | 错误码<br>最小长度： 0<br>最大长度： 255   |
| error_msg  | String | 错误信息<br>最小长度： 0<br>最大长度： 1024 |

**请求示例**

获取指定任务0867ef5f3xxxxxxxxxxxxxxxx关于MIGRATE\_EXCLUDE\_PATH的所有配置信息

```
GET https://{endpoint}/v3/tasks/0867ef5f3xxxxxxxxxxxxxxxx/configuration-setting?
config_key=MIGRATE_EXCLUDE_PATH
```

**响应示例**

**状态码： 200**

查询配置资源成功

```
{
  "task_id": "0867ef5f3xxxxxxxxxxxxxxxx",
  "migrate_type": "LINUX_FILE_MIGRATE",
  "configurations": [ {
    "config_key": "MIGRATE_EXCLUDE_PATH",
    "config_value": "/test",
    "config_status": ""
  } ]
}
```

**状态码： 403**

## 鉴权失败

```
{
  "error_code" : "SMS.9004",
  "error_msg" : "The current account does not have the permission to execute policy You do not have
permission to perform action XXX on resource XXX.",
  "encoded_authorization_message" : "XXXXXX",
  "error_param" : [ "You do not have permission to perform action XXX on resource XXX." ],
  "details" : [ {
    "error_code" : "SMS.9004",
    "error_msg" : "You do not have permission to perform action XXX on resource XXX."
  } ]
}
```

**SDK 代码示例**

SDK代码示例如下。

**Java**

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ShowConfigSettingSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowConfigSettingRequest request = new ShowConfigSettingRequest();
        request.withTaskId("{task_id}");
        try {
            ShowConfigSettingResponse response = client.showConfigSetting(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

```
}
}
}
```

## Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowConfigSettingRequest()
        request.task_id = "{task_id}"
        response = client.show_config_setting(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
```



```
WithRegion(region.ValueOf("<YOUR REGION>")).  
WithCredential(auth).  
Build())  
  
request := &model.ShowConfigSettingRequest{}  
request.TaskId = "{task_id}"  
response, err := client.ShowConfigSetting(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述          |
|-----|-------------|
| 200 | 查询配置资源成功    |
| 400 | Bad Request |
| 403 | 鉴权失败        |
| 404 | 请求任务不存在     |
| 500 | 请求配置异常      |

## 错误码

请参见[错误码](#)。

## 5.11 隐私协议管理

### 5.11.1 同意隐私协议

#### 功能介绍

同意隐私协议接口。

#### 调用方法

请参见[如何调用API](#)。

#### URI

POST /v3/privacy-agreements

## 请求参数

表 5-394 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                    |
|--------------|------|--------|-----------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token 用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 |

## 响应参数

状态码： 200

表 5-395 响应 Body 参数

| 参数 | 参数类型   | 描述   |
|----|--------|------|
| -  | String | 请求成功 |

## 请求示例

同意隐私协议接口

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

## 响应示例

无

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class CreatePrivacyAgreementsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
    }
}
```

```
// In this example, AK and SK are stored in environment variables for authentication. Before running
this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
String ak = System.getenv("CLOUD_SDK_AK");
String sk = System.getenv("CLOUD_SDK_SK");

ICredential auth = new GlobalCredentials()
    .withAk(ak)
    .withSk(sk);

SmsClient client = SmsClient.newBuilder()
    .withCredential(auth)
    .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
    .build();
CreatePrivacyAgreementsRequest request = new CreatePrivacyAgreementsRequest();
try {
    CreatePrivacyAgreementsResponse response = client.createPrivacyAgreements(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

## Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SmsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreatePrivacyAgreementsRequest()
        response = client.create_privacy_agreements(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreatePrivacyAgreementsRequest{}
    response, err := client.CreatePrivacyAgreements(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述   |
|-----|------|
| 200 | 请求成功 |

## 错误码

请参见[错误码](#)。

### 5.11.2 查询用户是否同意隐私协议

#### 功能介绍

查询用户是否同意隐私协议接口。

## 调用方法

请参见[如何调用API](#)。

## URI

GET /v3/privacy-agreements

## 请求参数

表 5-396 请求 Header 参数

| 参数           | 是否必选 | 参数类型   | 描述                                                                    |
|--------------|------|--------|-----------------------------------------------------------------------|
| X-Auth-Token | 是    | String | X-Auth-Token 用户Token。通过调用IAM服务获取用户Token接口获取(响应消息头中X-Subject-Token的值)。 |

## 响应参数

状态码： 200

表 5-397 响应 Body 参数

| 参数   | 参数类型    | 描述           |
|------|---------|--------------|
| flag | Boolean | 查询用户是否同意隐私协议 |

## 请求示例

查询用户是否同意隐私协议接口

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

## 响应示例

状态码： 200

查询用户是否同意隐私协议成功

```
{  
  "flag" : true  
}
```

## SDK 代码示例

SDK代码示例如下。

### Java

```
package com.huaweicloud.sdk.test;
```

```
import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.sms.v3.region.SmsRegion;
import com.huaweicloud.sdk.sms.v3.*;
import com.huaweicloud.sdk.sms.v3.model.*;

public class ShowPrivacyAgreementsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
            .withAk(ak)
            .withSk(sk);

        SmsClient client = SmsClient.newBuilder()
            .withCredential(auth)
            .withRegion(SmsRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowPrivacyAgreementsRequest request = new ShowPrivacyAgreementsRequest();
        try {
            ShowPrivacyAgreementsResponse response = client.showPrivacyAgreements(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdksms.v3.region.sms_region import SmsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdksms.v3 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk)

    client = SmsClient.new_builder() \
```

```
.with_credentials(credentials) \
.with_region(SmsRegion.value_of("<YOUR REGION>")) \
.build()

try:
    request = ShowPrivacyAgreementsRequest()
    response = client.show_privacy_agreements(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    sms "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/sms/v3/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := sms.NewSmsClient(
        sms.SmsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowPrivacyAgreementsRequest{}
    response, err := client.ShowPrivacyAgreements(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 更多

更多编程语言的SDK代码示例，请参见[API Explorer](#)的代码示例页签，可生成自动对应的SDK代码示例。

## 状态码

| 状态码 | 描述             |
|-----|----------------|
| 200 | 查询用户是否同意隐私协议成功 |

## 错误码

请参见[错误码](#)。



# 6 附录

## 6.1 错误码

当您调用API时，如果遇到“APIGW”开头的错误码，请参见[API网关错误码](#)进行处理。

| 状态码 | 错误码      | 错误信息                                                                | 描述                     | 处理措施                                 |
|-----|----------|---------------------------------------------------------------------|------------------------|--------------------------------------|
| 400 | SMS.0007 | Agent error.                                                        | Agent程序异常              | 请联系技术支持                              |
| 400 | SMS.0201 | Network busy. Source server failed to connect to API Gateway.       | 源端主机网络繁忙，无法连接api网关     | 请检查网络是否能连接api网关                      |
| 400 | SMS.0202 | AK/SK authentication failed. Ensure that the AK and SK are correct. | AK,SK鉴权失败,请检查AK,SK是否正确 | 请检查是否为目的端的AK/SK且输入正确，排查目的端AK/SK是否被冻结 |
| 400 | SMS.0203 | Connection from source server to API Gateway timed out.             | 源端连接API网关超时            | 请检查网络是否能连接api网关                      |

| 状态码 | 错误码      | 错误信息                                                                                            | 描述                               | 处理措施             |
|-----|----------|-------------------------------------------------------------------------------------------------|----------------------------------|------------------|
| 400 | SMS.0204 | Insufficient permissions. Cause: {0[0]}. Obtain the required fine-grained permissions.          | 权限不够，错误原因：{0[0]}，请添加相应细粒度权限      | 请添加相应的细粒度权限      |
| 400 | SMS.0205 | AK/SK authentication failed. The time or time zone of the source server is incorrect.           | AK/SK鉴权失败，源端服务器时间或时区设置错误         | 请修改源端服务器时间或时区    |
| 400 | SMS.0206 | Only x86 servers can be migrated.                                                               | 只支持迁移X86架构的服务器                   | 请使用其他方式迁移        |
| 400 | SMS.0207 | KVM driver not available on source server.                                                      | 源端缺失kvm驱动                        | 请安装kvm驱动         |
| 400 | SMS.0208 | Failed to send your service statement confirmation to SMS                                       | 无法将您的服务声明确认发送到SMS                | 请检查网络是否能连接api网关  |
| 400 | SMS.0210 | Failed to create file %s on target server                                                       | 在目的端创建%s文件失败                     | 请检查网络，然后再次启动迁移任务 |
| 400 | SMS.0211 | Failed to send certificate decryption key to target server                                      | 发送证书解密密钥到目的端失败                   | 请检查网络，然后再次启动迁移任务 |
| 400 | SMS.0212 | Agent restarted. Delete the current target configuration and configure the target server again. | 检测到agent被重启，请删除当前目的端配置，重新配置迁移任务。 | 请删除目的端配置重新配置迁移任务 |

| 状态码 | 错误码      | 错误信息                                                                 | 描述                         | 处理措施      |
|-----|----------|----------------------------------------------------------------------|----------------------------|-----------|
| 400 | SMS.0301 | Failed to send the network request.<br>Cause: %s                     | 网络请求发送失败, 原因:%s            | 请修正代理信息   |
| 400 | SMS.0302 | Failed to resolve domain name {0[0]}.                                | 域名{0[0]}解析失败               | 请检查域名是否可达 |
| 400 | SMS.0303 | Unable to access domain name %s.<br>Cause: %s                        | 域名%s联通失败, 失败原因:%s          | 请检查域名是否可达 |
| 400 | SMS.0304 | Network request TLS/SSL authentication failed.<br>Cause: %s          | 网络请求 TSL/SSL 鉴权失败, 失败原因:%s | 请联系技术支持   |
| 400 | SMS.0401 | No project ID found. Cause: %s                                       | 获取project id 失败, 错误原因:%s   | 请联系技术支持   |
| 400 | SMS.0406 | No image found. Cause: %s                                            | 获取镜像失败, 失败原因:%s            | 请联系技术支持   |
| 400 | SMS.0407 | No target server information found. Cause: %s                        | 获取虚拟机信息失败, 失败原因:%s         | 请联系技术支持   |
| 400 | SMS.0408 | Failed to obtain details about target server %s.<br>Cause: %s        | 获取虚拟机%s详情失败, 失败原因:%s       | 请联系技术支持   |
| 400 | SMS.0409 | Failed to obtain volume information of target server %s.<br>Cause %s | 获取虚拟机%s的卷信息失败, 失败原因:%s     | 请联系技术支持   |

| 状态码 | 错误码      | 错误信息                                                                                    | 描述                      | 处理措施          |
|-----|----------|-----------------------------------------------------------------------------------------|-------------------------|---------------|
| 400 | SMS.0410 | Failed to obtain NIC information of target server %s. Cause: %s                         | 获取虚拟机%s的网卡信息失败, 失败原因:%s | 请联系技术支持       |
| 400 | SMS.0411 | Disk %s does not exist.                                                                 | 磁盘%s不存在                 | 磁盘被删除, 请重新迁移  |
| 400 | SMS.0412 | Target server %s does not exist.                                                        | 虚拟机%s不存在                | 虚拟机被删除, 请重新迁移 |
| 400 | SMS.0413 | Failed to query the region where the bucket locates. Cause: %s                          | 查询桶区域失败, 失败原因:%s        | 请联系技术支持       |
| 400 | SMS.0414 | Failed to copy logs from the customer's OBS bucket to the destination bucket. Cause: %s | 授权日志失败, 失败原因:%s         | 请联系技术支持       |
| 400 | SMS.0415 | Failed to obtain the target server specifications. Cause: %s                            | 获取虚拟机规格失败. 失败原因:%s      | 请联系技术支持       |
| 400 | SMS.0416 | No VPC found. Cause: %s                                                                 | 查询虚拟私有云失败. 失败原因:%s      | 请联系技术支持       |
| 400 | SMS.0417 | No security group found. Cause: %s                                                      | 查询安全组失败. 失败原因:%s        | 请联系技术支持       |
| 400 | SMS.0418 | No subnet found. Cause: %s                                                              | 查询子网失败. 失败原因:%s         | 请联系技术支持       |

| 状态码 | 错误码      | 错误信息                                                                                           | 描述                            | 处理措施             |
|-----|----------|------------------------------------------------------------------------------------------------|-------------------------------|------------------|
| 400 | SMS.0419 | Failed to obtain the volume details of target server %s by calling the combined API. Cause: %s | 通过组合API获取虚拟机%s的卷信息失败, 失败原因:%s | 请联系技术支持          |
| 400 | SMS.0420 | Failed to obtain the disk details of the target server. Cause: %s                              | 获取目的端磁盘列表失败,原因: %s            | 请联系技术支持          |
| 400 | SMS.0421 | Failed to obtain the domain ID. Cause: %s                                                      | 获取domain id失败, 错误原因:%s        | 请联系技术支持          |
| 400 | SMS.0422 | Failed to obtain the details about the VPC with the specified ID.                              | 查询指定id的虚拟私有云失败                | 请联系技术支持          |
| 400 | SMS.0423 | The VPC with the specified ID is abnormal.                                                     | 指定id的虚拟私有云状态异常                | 请联系技术支持          |
| 400 | SMS.0424 | The obtained list of disks on the target server has no content.                                | 获取到的目的端磁盘列表为空                 | 请联系技术支持          |
| 400 | SMS.0425 | Failed to obtain the JSON configuration file.                                                  | 获取json配置文件失败                  | 请联系技术支持          |
| 400 | SMS.0426 | Response body too long. Maximum length: %s                                                     | 请求返回体长度非法, 超过了%s最大长度限制        | 请修改配置文件中的最大长度限制值 |

| 状态码 | 错误码      | 错误信息                                                                                 | 描述                     | 处理措施    |
|-----|----------|--------------------------------------------------------------------------------------|------------------------|---------|
| 400 | SMS.0501 | Failed to report the task progress to SMS.                                           | 子任务进度上传失败              | 请联系技术支持 |
| 400 | SMS.0502 | Source server registration failed. Cause: %s                                         | 注册源端失败, 错误原因:%s        | 请联系技术支持 |
| 400 | SMS.0503 | Log upload failed. Cause: %s                                                         | 上传日志失败, 失败原因:%s        | 请联系技术支持 |
| 400 | SMS.0504 | Failed to obtain task details. Cause: %s                                             | 获取任务信息失败, 错误原因:%s      | 请联系技术支持 |
| 400 | SMS.0505 | Task %s not found. Check whether the task has been deleted.                          | 没有找到任务%s, 请检查任务是否已经被删除 | 请联系技术支持 |
| 400 | SMS.0506 | Failed to obtain template details. Template ID: %s                                   | 获取指定id%s的模板信息失败        | 请联系技术支持 |
| 400 | SMS.0507 | Source server details deleted. Register it with SMS again.                           | 源端已经被删除, 请重新注册         | 请重新注册   |
| 400 | SMS.0508 | Failed to obtain commands from the source server. Cause %s                           | 从源端%s获取命令失败, 错误原因:%s   | 请联系技术支持 |
| 400 | SMS.0509 | The application failed to start because its side-by-side configuration is incorrect. | 应用程序因并行配置不正确无法启动       | 请联系技术支持 |

| 状态码 | 错误码      | 错误信息                                                                                                             | 描述                                                         | 处理措施                          |
|-----|----------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------|
| 400 | SMS.0510 | Failed to update the replication status to %s.                                                                   | 将复制状态更新为%s失败                                               | 请联系技术支持                       |
| 400 | SMS.0511 | Failed to obtain the private key. Cause: %s                                                                      | 获取私钥失败, 错误原因:%s                                            | 请联系技术支持                       |
| 400 | SMS.0512 | Failed to update task details.                                                                                   | 更新任务信息失败                                                   | 请联系技术支持                       |
| 400 | SMS.0513 | Failed to add the subtask.                                                                                       | 添加子任务失败                                                    | 请联系技术支持                       |
| 400 | SMS.0514 | Updating source server information failed. Cause: {0[0]}                                                         | 更新源端信息失败, 错误原因:{0[0]}                                      | 请联系技术支持                       |
| 400 | SMS.0515 | Migration failed. Source disk information has changed. Delete target server configuration and restart the Agent. | 源端磁盘信息发生变化, 无法迁移, 请删除目的端配置并重新启动 agent                      | 请删除目的端配置并重新启动                 |
| 400 | SMS.0516 | Failed to execute the synchronization task, because the I/O monitoring module failed to run.                     | IO监控模块运行失败, 任务无法同步                                         | 请联系技术支持                       |
| 400 | SMS.0519 | Not enough space. Delete target configuration, restart Agent, and expand target partition.                       | 源端当前已用空间发生变化, 超过了调整后目的端分区大小, 请删除目的端配置, 重新启动 agent并重新调整磁盘分区 | 请删除目的端配置, 重新启动 agent并重新调整磁盘分区 |

| 状态码 | 错误码      | 错误信息                                                                                 | 描述                          | 处理措施       |
|-----|----------|--------------------------------------------------------------------------------------|-----------------------------|------------|
| 400 | SMS.0520 | Failed to obtain the target server password. Cause: %s                               | 获取目的端服务器密码失败, 错误原因: %s      | 请联系技术支持    |
| 400 | SMS.0521 | Failed to obtain the certificate password. Cause: %s                                 | 获取证书密码失败, 错误原因: %s          | 请联系技术支持    |
| 400 | SMS.0522 | The parameter contains invalid characters: %s                                        | 参数含有非法字符: %s                | 请联系技术支持    |
| 400 | SMS.0601 | Target server creation failed. Cause: %s                                             | 创建虚拟机失败. 失败原因: %s           | 请联系ECS技术支持 |
| 400 | SMS.0602 | VPC creation failed. Cause: %s                                                       | 创建虚拟私有云失败. 失败原因: %s         | 请联系VPC技术支持 |
| 400 | SMS.0603 | Security group creation failed. Cause: %s                                            | 创建安全组失败. 失败原因: %s           | 请联系VPC技术支持 |
| 400 | SMS.0604 | Failed to add the security group rule. Cause: %s                                     | 创建安全组规则失败. 失败原因: %s         | 请联系VPC技术支持 |
| 400 | SMS.0605 | Subnet creation failed. Cause: %s                                                    | 创建子网失败. 失败原因: %s            | 请联系VPC技术支持 |
| 400 | SMS.0606 | No general-computing server flavors are available in this AZ. Select another flavor. | 该区域没有通用计算型虚拟机规格, 请手动选择虚拟机规格 | 请手动选择虚拟机规格 |



| 状态码 | 错误码      | 错误信息                                                                 | 描述                             | 处理措施      |
|-----|----------|----------------------------------------------------------------------|--------------------------------|-----------|
| 400 | SMS.0607 | cloud-region.json does not contain details about the current region. | cloud-region.json中缺少当前region信息 | 请联系技术支持   |
| 400 | SMS.0608 | Volume creation failed. Cause: %s                                    | 创建卷失败, 失败原因:%s                 | 请联系技术支持   |
| 400 | SMS.0804 | File upload failed.                                                  | 上传文件到目的端失败                     | 请检查网络是否正常 |
| 400 | SMS.0805 | Failed to migrate partition %s to target server %s.                  | 迁移分区 %s 到目的端 %s 失败             | 请参考案例进行排查 |
| 400 | SMS.0806 | Failed to synchronize partition %s to target server %s.              | 同步分区 %s 到目的端 %s 失败             | 请参考案例进行排查 |
| 400 | SMS.0807 | Network error between source and target servers.                     | 源端与目的端网络出现异常                   | 请检查网络是否正常 |
| 400 | SMS.1101 | Failed to start target server %s.                                    | 启动虚拟机%s失败                      | 请联系技术支持   |
| 400 | SMS.1102 | Failed to stop target server %s.                                     | 暂停虚拟机%s失败                      | 请联系技术支持   |
| 400 | SMS.1103 | Failed to attach disk %s. Cause: %s                                  | 挂载磁盘%s失败, 失败原因:%s              | 请联系技术支持   |
| 400 | SMS.1104 | Failed to detach disk %s. Cause: %s                                  | 卸载磁盘%s失败, 失败原因:%s              | 请联系技术支持   |
| 400 | SMS.1105 | Disk creation failed. Cause: %s                                      | 创建磁盘失败, 失败原因:%s                | 请联系技术支持   |

| 状态码 | 错误码      | 错误信息                                                                                        | 描述                       | 处理措施    |
|-----|----------|---------------------------------------------------------------------------------------------|--------------------------|---------|
| 400 | SMS.1106 | Failed to delete disk %s. Cause: %s                                                         | 删除磁盘%s失败, 失败原因:%s        | 请联系技术支持 |
| 400 | SMS.1107 | Failed to upload the private key and certificate to target server %s. Cause: %s             | 目的虚拟机%s上传私钥和证书失败,错误原因:%s | 请联系技术支持 |
| 400 | SMS.1108 | Failed to detach disk %s.                                                                   | 卸载磁盘%s失败                 | 请联系技术支持 |
| 400 | SMS.1109 | An exception occurred when the private key and certificate are uploaded to target server %s | 目的虚拟机%s上传私钥和证书出现异常       | 请联系技术支持 |
| 400 | SMS.1110 | Failed to attach disk %s.                                                                   | 挂载磁盘%s失败                 | 请联系技术支持 |
| 400 | SMS.1111 | Failed to start target server %s. Cause %s                                                  | 启动虚拟机%s失败, 失败原因:%s       | 请联系技术支持 |
| 400 | SMS.1112 | Failed to stop target server %s. Cause: %s                                                  | 暂停虚拟机%s失败, 失败原因:%s       | 请联系技术支持 |
| 400 | SMS.1113 | Failed to reconfigure partition details on the target server.                               | 目的虚拟机重新配置分区信息失败          | 请联系技术支持 |
| 400 | SMS.1114 | Failed to send command to the target server.                                                | 发送命令给目的虚拟机失败             | 请联系技术支持 |
| 400 | SMS.1116 | Failed to set type for disk %s. Cause: %s                                                   | 设置磁盘 %s 类型失败,原因:%s       | 请联系技术支持 |

| 状态码 | 错误码      | 错误信息                                                                                         | 描述                           | 处理措施          |
|-----|----------|----------------------------------------------------------------------------------------------|------------------------------|---------------|
| 400 | SMS.1117 | Failed to generate the RSA key pair on the target server.                                    | 在目的端生成rsa密钥对失败               | 请联系技术支持       |
| 400 | SMS.1118 | Failed to query the content of file %s.                                                      | 查看文件%s内容失败                   | 请联系技术支持       |
| 400 | SMS.1119 | Failed to restart SSHD on the target server.                                                 | 重启目的端sshd服务失败                | 请联系技术支持       |
| 400 | SMS.1120 | Command execution on the Windows server failed. Cause: missing command or command parameter. | Windows执行命令失败, 原因: 空命令或空命令参数 | 请联系技术支持       |
| 400 | SMS.1201 | %s not installed.                                                                            | 指定的服务%s未安装                   | 请联系技术支持       |
| 400 | SMS.1202 | Agent image ID is empty. Create agent image and reconfigure the task.                        | 代理镜像id为空, 请按照文档制作代理镜像后, 重新迁移 | 请联系技术支持       |
| 400 | SMS.1203 | Insufficient memory on the source server.                                                    | 源端内存不足                       | 请清理源端程序, 释放内存 |
| 400 | SMS.1204 | Failed to create a file on the source server. Cause: %s                                      | 在源端创建新文件失败, 失败原因: %s         | 请联系技术支持       |
| 400 | SMS.1205 | Failed to load WMI. Go to the official website to view the solution.                         | 加载wmi模块失败, 请前往官网查询解决方案       | 请参考案例进行排查     |

| 状态码 | 错误码      | 错误信息                                                                                                  | 描述                                                  | 处理措施       |
|-----|----------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------|
| 400 | SMS.1301 | Failed to write partition information to the configuration file.                                      | 往配置文件写入分区信息失败                                       | 请联系技术支持    |
| 400 | SMS.1311 | Insufficient disks on the target server.                                                              | 目的端磁盘个数不够                                           | 请增加目的端磁盘数量 |
| 400 | SMS.1312 | Partition failed. Disk: %s. Cause: %s                                                                 | 对磁盘 %s 进行分区失败,原因: %s                                | 请联系技术支持    |
| 400 | SMS.1313 | Failed to create physical volume %s. Cause: %s                                                        | 创建物理卷 %s 失败,原因: %s                                  | 请联系技术支持    |
| 400 | SMS.1314 | Formatting failed. Partition: %s. Cause: %s                                                           | 格式化分区 %s 失败,原因: %s                                  | 请联系技术支持    |
| 400 | SMS.1315 | Insufficient free space on target partition %s.                                                       | 目的端分区 %s 剩余空间不足                                     | 请扩容对应分区    |
| 400 | SMS.1401 | Failed to copy the I/O monitoring module.                                                             | 复制IO监控模块失败                                          | 请联系技术支持    |
| 400 | SMS.1402 | SSH client not installed. Install the openssh-clients package and check the installation with ssh -V. | ssh客户端未安装, 请安装软件包“openssh-clients”, 并且检查“ssh -V”的结果 | 请联系技术支持    |
| 400 | SMS.1403 | No grub file found. Find it under /boot.                                                              | 找不到grub文件, 请在/boot目录下寻找该文件                          | 请联系技术支持    |

| 状态码 | 错误码      | 错误信息                                                         | 描述                        | 处理措施    |
|-----|----------|--------------------------------------------------------------|---------------------------|---------|
| 400 | SMS.1404 | Disk %s is abnormal. Expected status: %s                     | 磁盘%s状态不正常,当前状态:%s,期望状态:%s | 请联系技术支持 |
| 400 | SMS.1405 | Failed to obtain information about disk %s. Cause: %s        | 获取磁盘%s信息失败, 失败原因:%s       | 请联系技术支持 |
| 400 | SMS.1406 | Failed to obtain the EIP. Cause: %s                          | 获取弹性IP失败, 失败原因:%s         | 请联系技术支持 |
| 400 | SMS.1407 | Failed to obtain the target server specifications. Cause: %s | 获取虚拟机规格失败, 失败原因:%s        | 请联系技术支持 |
| 400 | SMS.1408 | Snapshot creation failed. Disk: %s. Cause: %s                | 磁盘%s创建快照失败, 失败原因:%s       | 请联系技术支持 |
| 400 | SMS.1409 | Failed to delete snapshot %s. Cause: %s                      | 删除快照%s失败, 失败原因:%s         | 请联系技术支持 |
| 400 | SMS.1410 | Snapshot %s does not exist.                                  | 快照%s不存在                   | 请联系技术支持 |
| 400 | SMS.1411 | Snapshot %s is in the %s state.                              | 快照%s状态:%s                 | 请联系技术支持 |
| 400 | SMS.1412 | Snapshot %s rollback failed. Cause: %s                       | 回滚快照%s失败, 失败原因:%s         | 请联系技术支持 |
| 400 | SMS.1413 | Failed to obtain the status of snapshot %s. Cause: %s        | 查询快照%s状态失败, 失败原因:%s       | 请联系技术支持 |

| 状态码 | 错误码      | 错误信息                                                                             | 描述                    | 处理措施    |
|-----|----------|----------------------------------------------------------------------------------|-----------------------|---------|
| 400 | SMS.1414 | The migration module stopped abnormally and cannot synchronize data.             | 迁移模块异常中止, 无法同步        | 请联系技术支持 |
| 400 | SMS.1415 | Failed to load the IO monitoring module.                                         | IO监控模块启动失败            | 请联系技术支持 |
| 400 | SMS.1416 | Failed to create tag for server %s. Cause: %s                                    | 服务器%s打标签失败, 失败原因:%s   | 请联系技术支持 |
| 400 | SMS.1417 | Operation %s failed on server. Cause: %s                                         | 服务器执行%s操作失败, 失败原因:%s  | 请联系技术支持 |
| 400 | SMS.1423 | Failed to obtain details about DNS server. Cause: %s                             | 获取DNS服务器信息失败, 失败原因:%s | 请联系技术支持 |
| 400 | SMS.1501 | OS version not supported.                                                        | 操作系统不支持               | 请联系技术支持 |
| 400 | SMS.1502 | Target server %s is abnormal. Expected status: %s                                | 虚拟机%s状态不正常, 期望状态:%s   | 请联系技术支持 |
| 400 | SMS.1503 | Disk %s is not the system boot disk.                                             | 磁盘%s不是系统启动盘           | 请联系技术支持 |
| 400 | SMS.1504 | The sizes of disks on the target server do not match those on the source server. | 源端磁盘大小与目的虚拟机磁盘不匹配.    | 请联系技术支持 |
| 400 | SMS.1505 | No boot partition found.                                                         | 找不到启动分区               | 请联系技术支持 |

| 状态码 | 错误码      | 错误信息                                                                                    | 描述                                           | 处理措施        |
|-----|----------|-----------------------------------------------------------------------------------------|----------------------------------------------|-------------|
| 400 | SMS.1506 | No boot disk found.                                                                     | 找不到启动磁盘                                      | 请联系技术支持     |
| 400 | SMS.1507 | No system partition found.                                                              | 找不到系统分区                                      | 请联系技术支持     |
| 400 | SMS.1508 | Mount point, partition, or disk configured in disk.cfg not found.                       | 找不到自定义磁盘配置文件中编写的挂载点、分区或磁盘                    | 请检查磁盘配置文件   |
| 400 | SMS.1509 | Invalid disk.cfg file.                                                                  | 自定义磁盘配置文件的配置不可行                              | 请检查磁盘配置文件   |
| 400 | SMS.1510 | Configure advanced option %s failed. Cause: %s.                                         | 特殊配置项 %s 配置失败, 错误原因: %s                      | 请检查并修正对应配置项 |
| 400 | SMS.1511 | failed to check the consistency, Cause: %s                                              | 校验数据一致性失败, 失败原因: %s                          | 请联系技术支持     |
| 400 | SMS.1701 | The installed Agent cannot migrate the server to this region. Install the latest Agent. | 已安装的 Agent 不支持迁移到该 Region, 请安装最新的 Agent 进行迁移 | 请联系技术支持     |
| 400 | SMS.1702 | An error occurred when converting the string into the JSON format.                      | 字符串转 json 过程中出现错误                            | 请联系技术支持     |
| 400 | SMS.1801 | Migration or synchronization task failed.                                               | 迁移/同步失败                                      | 请联系技术支持     |
| 400 | SMS.1802 | Migration or synchronization task paused.                                               | 迁移/同步任务中止                                    | 请联系技术支持     |

| 状态码 | 错误码      | 错误信息                                                                                                                        | 描述                                      | 处理措施    |
|-----|----------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------|
| 400 | SMS.1805 | Migration or synchronization task failed because memory allocation on the target server failed.                             | 迁移/同步失败，目的端分配内存失败                       | 请联系技术支持 |
| 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. | 无法连接目的虚拟机，请检查目的虚拟机IP%s是否可达，或者8900端口是否开放 | 请联系技术支持 |
| 400 | SMS.1901 | Agent could not read disk information.                                                                                      | Agent无法读取磁盘信息                           | 请联系技术支持 |
| 400 | SMS.1902 | Failed to start the I/O monitoring module.                                                                                  | 启动IO监控失败                                | 请联系技术支持 |
| 400 | SMS.1903 | No valid block data found.                                                                                                  | 获取有效块数据失败                               | 请联系技术支持 |
| 400 | SMS.1904 | Failed to create a snapshot for the Windows server.                                                                         | 制作Windows快照失败                           | 请联系技术支持 |
| 400 | SMS.1905 | Failed to read the disk information.                                                                                        | 读取卷信息失败                                 | 请联系技术支持 |
| 400 | SMS.1907 | Failed to send the migration command.                                                                                       | Agent发送命令失败                             | 请联系技术支持 |
| 400 | SMS.1908 | Data transmission failed.                                                                                                   | Agent传输数据失败                             | 请联系技术支持 |
| 400 | SMS.1909 | Data compression failed.                                                                                                    | 压缩数据失败                                  | 请联系技术支持 |



| 状态码 | 错误码      | 错误信息                                                                        | 描述                 | 处理措施    |
|-----|----------|-----------------------------------------------------------------------------|--------------------|---------|
| 400 | SMS.1910 | Failed to obtain the I/O monitoring data.                                   | 读取IO监控失败           | 请联系技术支持 |
| 400 | SMS.1911 | Boot sector read error.                                                     | 读取 bootsector 出错   | 请联系技术支持 |
| 400 | SMS.2003 | Volume reconfiguration failed.                                              | 重配置卷信息失败           | 请联系技术支持 |
| 400 | SMS.2004 | Failed to back up volume sector details on the target server.               | 备份目的端卷 sector 信息失败 | 请联系技术支持 |
| 400 | SMS.2007 | Failed to write data to disks on the target server.                         | 目的端写磁盘失败           | 请联系技术支持 |
| 400 | SMS.2009 | Data decompression failed.                                                  | 解压缩数据失败            | 请联系技术支持 |
| 400 | SMS.2011 | Failed to receive data.                                                     | 接收数据失败             | 请联系技术支持 |
| 400 | SMS.2012 | Failed to read or parse the volume information from the configuration file. | 从配置文件读取并解析卷信息失败    | 请联系技术支持 |
| 400 | SMS.2013 | Failed to open the disk.                                                    | 打开磁盘失败             | 请联系技术支持 |
| 400 | SMS.2014 | Failed to hide the partition information.                                   | 隐藏分区信息失败           | 请联系技术支持 |
| 400 | SMS.2015 | Failed to restore the partition information.                                | 恢复分区信息失败           | 请联系技术支持 |
| 400 | SMS.2016 | Drive letter restoration failed.                                            | 恢复盘符信息失败           | 请联系技术支持 |

| 状态码 | 错误码      | 错误信息                                      | 描述                         | 处理措施    |
|-----|----------|-------------------------------------------|----------------------------|---------|
| 400 | SMS.2017 | Failed to traverse all volumes.           | 遍历所有卷出错                    | 请联系技术支持 |
| 400 | SMS.2018 | Error in reading the volume boot sector.  | 读取卷的boot sector出错          | 请联系技术支持 |
| 400 | SMS.2101 | Registry modification failed.             | 修改windows配置时, 修改注册表失败      | 请联系技术支持 |
| 400 | SMS.2102 | Failed to modify the device information.  | 修改windows配置时, 修改设备信息失败     | 请联系技术支持 |
| 400 | SMS.2103 | Failed to set active partitions.          | 修改windows配置时, 设置活动分区失败     | 请联系技术支持 |
| 400 | SMS.2104 | Failed to modify BCD configuration.       | 修改windows配置时, 修改bcd配置失败    | 请联系技术支持 |
| 400 | SMS.2105 | Failed to modify boot configuration file. | 修改windows配置时, 修改boot配置文件失败 | 请联系技术支持 |
| 400 | SMS.2201 | Failed to clear disk information.         | windows分区和格式化时, 清理磁盘信息失败   | 请联系技术支持 |
| 400 | SMS.2202 | Failed to convert the format of disk %s.  | windows分区和格式化时, 磁盘%s格式转换失败 | 请联系技术支持 |
| 400 | SMS.2203 | Failed to create partition %s.            | windows分区和格式化时, 创建分区%s失败   | 请联系技术支持 |
| 400 | SMS.2204 | Failed to format partition %s.            | windows分区和格式化时, 格式化分区%s失败  | 请联系技术支持 |

| 状态码 | 错误码      | 错误信息                                                                                                           | 描述                                      | 处理措施    |
|-----|----------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------|
| 400 | SMS.2205 | Failed to update the partition information.                                                                    | windows分区和格式化时,更新分区信息失败                 | 请联系技术支持 |
| 400 | SMS.2301 | Failed to start ntcldst.                                                                                       | 启动ntcldst模块失败                           | 请联系技术支持 |
| 400 | SMS.2802 | Failed to connect to the target server. Check whether its IP address %s is reachable and port 8899 is enabled. | 无法连接目的虚拟机,请检查目的虚拟机IP%s是否可达,或者8899端口是否开放 | 请联系技术支持 |
| 400 | SMS.3101 | Failed to modify the configuration file of the target server. Cause: %s                                        | 修改目的端配置文件失败,原因: %s                      | 请联系技术支持 |
| 400 | SMS.3102 | Failed to modify the initrd file on the target server. Cause: %s                                               | 修改目的端initrd文件失败,原因: %s                  | 请联系技术支持 |
| 400 | SMS.3103 | Failed to execute bootloader on the target server. Cause: %s                                                   | 对目的服务器重新建立引导失败,原因: %s                   | 请联系技术支持 |
| 400 | SMS.3104 | Failed to read /etc/fstab on the source server. Cause: %s                                                      | 读取源端文件(/etc/fstab)失败,原因: %s             | 请联系技术支持 |
| 400 | SMS.3202 | Failed to create volume group %s. Cause: %s                                                                    | 创建卷组 %s失败,原因: %s                        | 请联系技术支持 |

| 状态码 | 错误码      | 错误信息                                                                                | 描述                                  | 处理措施    |
|-----|----------|-------------------------------------------------------------------------------------|-------------------------------------|---------|
| 400 | SMS.3203 | Failed to create logical volume %s. Cause: %s                                       | 创建逻辑卷 %s 失败,原因: %s                  | 请联系技术支持 |
| 400 | SMS.3204 | Failed to create swap partition %s. Cause: %s                                       | 创建swap分区 %s 失败,原因: %s               | 请联系技术支持 |
| 400 | SMS.3205 | Failed to mount partition %s to directory %s. Cause: %s                             | 挂载分区 %s 到目录 %s 失败,原因: %s            | 请联系技术支持 |
| 400 | SMS.3206 | Failed to obtain the UUID of the partition on the target server. Cause: %s          | 查询目的端分区的UUID失败,原因: %s               | 请联系技术支持 |
| 400 | SMS.3207 | Failed to create file %s on the target server. Cause: %s                            | 在目的端创建文件 %s 失败,原因: %s               | 请联系技术支持 |
| 400 | SMS.3208 | Failed to write file %s on the target server. Cause: %s                             | 在目的端写文件 %s 失败,原因: %s                | 请联系技术支持 |
| 400 | SMS.3209 | Failed to assign execution permission to the script on the target server. Cause: %s | 设置目的端脚本可执行权限失败,原因: %s               | 请联系技术支持 |
| 400 | SMS.3210 | Failed to format partition {0[0]} to {0[1]}. Cause: {0[2]}                          | 格式化分区 {0[0]} 为 {0[1]}失败. 原因: {0[2]} | 请联系技术支持 |

| 状态码 | 错误码      | 错误信息                                                                                                                           | 描述                          | 处理措施        |
|-----|----------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------|
| 400 | SMS.3300 | Failed to read the configuration file for Linux block-level migration.                                                         | 读取linux块迁移配置文件失败            | 请下载最新的agent |
| 400 | SMS.3301 | Failed to load the SSL certificate.                                                                                            | 加载ssl证书失败                   | 请重新创建迁移任务   |
| 400 | SMS.3401 | Download of RSA public and private keys failed. HTTP Status Code: %s                                                           | 下载RSA公私钥失败, HTTPS Code: %s  | 请联系技术支持     |
| 400 | SMS.3402 | Download of RSA public and private keys failed.                                                                                | 下载RSA公私钥失败                  | 请联系技术支持     |
| 400 | SMS.3802 | Failed to establish an SSH connection with the target server.                                                                  | 与目的服务器建立SSH连接失败             | 请检查网络       |
| 400 | SMS.3803 | The connection to the target server failed, because an error occurred during the public key verification on the target server. | 源端连接目的端发生错误, 目的端公钥验证过程中发生错误 | 请联系技术支持     |
| 400 | SMS.3804 | The connection to the target server failed due to invalid connection credential.                                               | 源端连接目的端发生错误, 连接凭据无效         | 请联系技术支持     |

| 状态码 | 错误码      | 错误信息                                                                                | 描述                          | 处理措施             |
|-----|----------|-------------------------------------------------------------------------------------|-----------------------------|------------------|
| 400 | SMS.3805 | The connection to the target server timed out.                                      | 源端连接目的端发生错误，连接超时            | 请检查网络            |
| 400 | SMS.3806 | The connection to the target server was rejected.                                   | 源端连接目的端发生错误，拒绝连接            | 请联系技术支持          |
| 400 | SMS.3807 | Failed to decompress %s.                                                            | 解压文件%s失败                    | 请联系技术支持          |
| 400 | SMS.3808 | Failed to ping the target server. Please check whether the ICMP port is enabled.    | Ping目的端服务器失败，请检查ICMP端口是否开放  | 请检查网络环境          |
| 400 | SMS.3809 | Failed to replace the RSA certificate on the target server.                         | 替换目的端服务器rsa证书失败             | 请联系技术支持          |
| 400 | SMS.5101 | Agent installation failed.                                                          | Agent安装失败                   | 请联系技术支持          |
| 400 | SMS.5102 | Agent startup failed because the noexec permission is unavailable on /tmp in Linux. | Linux /tmp卷缺少noexec权限导致无法启动 | 请增加tmp目录noexec权限 |
| 400 | SMS.5103 | Agent startup failed due to insufficient space on /tmp in Linux.                    | Linux /tmp卷空间不足导致agent无法启动  | 请增加tmp大小         |
| 400 | SMS.5104 | Failed to paste AK or SK.                                                           | Agent无法粘贴aksk               | 请重启agent         |

| 状态码 | 错误码      | 错误信息                                                                       | 描述                    | 处理措施                      |
|-----|----------|----------------------------------------------------------------------------|-----------------------|---------------------------|
| 400 | SMS.5105 | Agent startup failed because the current shell character set is wrong.     | 当前shell字符集设置错误，无法启动   | 请设置字符集为UTF-8              |
| 400 | SMS.5106 | Internal error. Failed to create a temporary directory.                    | 内部错误：无法创建临时目录         | 请用管理员权限运行                 |
| 400 | SMS.5107 | Failed to open the file for writing.                                       | 不能打开要写入的文件            | 请联系技术支持                   |
| 400 | SMS.5108 | Failed to execute df -TH.                                                  | 执行“df -TH”命令失败        | 请检查是否挂载了不存在或已经离线的设备       |
| 400 | SMS.5109 | The application cannot be started due to incorrect parallel configuration. | 应用程序因并行配置不正确无法启动      | 请使用SMSAgentDeploy启动       |
| 400 | SMS.5110 | The Windows Agent unable to launch.                                        | Windows Agent双击无法运行   | 请解除锁定后重试                  |
| 400 | SMS.5111 | Agent startup failed. Multiple volume groups found with the same name.     | 启动sms agent失败，存在同名的卷组 | 请联系技术支持                   |
| 400 | SMS.5112 | Agent main program: linuxmain could not run.                               | Agent主程序linuxmain启动失败 | 查看兼容性列表                   |
| 400 | SMS.5113 | Check %s on Linux timed out.                                               | linux预检查运行%s超时        | 请根据报错提示中的具体预检查项进行详细的排查和处理 |
| 400 | SMS.5301 | Booting with GRUB failed.                                                  | grub引导失败              | 请重装grub                   |

| 状态码 | 错误码      | 错误信息                                                             | 描述                         | 处理措施             |
|-----|----------|------------------------------------------------------------------|----------------------------|------------------|
| 400 | SMS.5302 | Failed to install the KVM driver.                                | XEN迁移KVM安装KVM驱动失败          | 请卸载xen驱动,安装kvm驱动 |
| 400 | SMS.5401 | Disks of the Windows target server are offline.                  | Windows迁移完后磁盘脱机            | 请手动联机            |
| 400 | SMS.5402 | Network error on the target server running Windows 2003.         | Windows Server 2003目的端网络异常 | 请使用其他方式迁移        |
| 400 | SMS.5403 | Progress is slow or suspended.                                   | 进度卡住或过慢                    | 请检查带宽是否过小        |
| 400 | SMS.5404 | The target server running CentOS 6.x cannot access the Internet. | CentOS6.x迁移完成后目的端无法联网.     | 请联系技术支持          |
| 400 | SMS.5601 | The disk usage changes greatly after migration.                  | 迁移完成后目的端与源端磁盘使用率差异较大       | 请联系技术支持          |
| 400 | SMS.5602 | Time error occurred in the target server running Linux.          | Linux主机迁移后时间异常             | 请使用NTP同步         |
| 400 | SMS.5603 | The target server running Windows cannot access the Internet.    | Windows迁移后无法上网             | 请重装网卡驱动          |
| 400 | SMS.5604 | The MySQL service on the target server cannot be started.        | MySQL数据库迁移后无法启动            | 请停止业务重新同步        |



| 状态码 | 错误码      | 错误信息                                                                                                           | 描述                                  | 处理措施                                |
|-----|----------|----------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| 400 | SMS.5605 | After the migration is complete, the target server starts and the System Recovery Options window is displayed. | 迁移完成后目的端启动进入修复页面                    | 请联系技术支持                             |
| 400 | SMS.5606 | Windows fails to start because the Xen driver is abnormal.                                                     | windows 系统无法启动, xen驱动异常             | 请联系技术支持                             |
| 400 | SMS.6000 | Service error.                                                                                                 | 服务异常                                | 请联系技术支持                             |
| 400 | SMS.6001 | The source server name is a required field.                                                                    | 源端名称为空                              | 源端名称不能为空                            |
| 400 | SMS.6002 | Source server name must consist of 1 to 64 characters.                                                         | 源端名称长度必须在1与64之间                     | 源端名称长度必须在1与64之间                     |
| 400 | SMS.6003 | Only letters, digits, underscores (_), dot (.), and hyphens (-) are allowed.                                   | 只能由中文字符、英文字母、数字及\"_\"、\".\"、\".\"组成 | 只能由中文字符、英文字母、数字及\"_\"、\".\"、\".\"组成 |
| 400 | SMS.6004 | Invalid subtask name.                                                                                          | 非法的子任务名称                            | 请输入正确的子任务名称                         |
| 400 | SMS.6005 | The status of the sourceServer does not meet the requirements.                                                 | 源端服务器状态不符合要求                        | 请联系技术支持                             |
| 400 | SMS.6006 | Source platform information format error.                                                                      | 源端平台信息格式错误                          | 请联系技术支持                             |

| 状态码 | 错误码      | 错误信息                                                           | 描述                            | 处理措施                       |
|-----|----------|----------------------------------------------------------------|-------------------------------|----------------------------|
| 400 | SMS.6010 | The request body is not in the JSON format.                    | 请求体不是json格式                   | 请按要求设置请求体                  |
| 400 | SMS.6011 | The JSON request body does not meet the specifications.        | 请求体json不符合规范                  | 请按要求设置请求体                  |
| 400 | SMS.6012 | Empty request body.                                            | 请求体为空                         | 请按要求设置请求体                  |
| 400 | SMS.6013 | Incomplete request parameters.                                 | 请求参数不全                        | 请补全请求参数                    |
| 400 | SMS.6014 | The parameter part in the request body is too long.            | 请求体参数超长                       | 请修改请求体参数                   |
| 400 | SMS.6015 | The request header is missing.                                 | 请求头缺失                         | 请添加请求头                     |
| 400 | SMS.6016 | The header type must be application/json.                      | 请求头类型错误, 必须为application/json! | 请确保请求头类型为application/json! |
| 400 | SMS.6020 | The command name is missing.                                   | 命令名称丢失                        | 请联系技术支持                    |
| 400 | SMS.6021 | The command from the Agent is inconsistent with that from SMS. | 客户端提供的命令与服务端不一致               | 请输入服务端正确的命令                |
| 400 | SMS.6022 | Incorrect result format.                                       | result格式错误                    | 请设置正确的result格式             |
| 400 | SMS.6023 | Incorrect result_detail format.                                | result_detail格式错误             | 请设置正确的result_detail格式      |

| 状态码 | 错误码      | 错误信息                                                 | 描述              | 处理措施            |
|-----|----------|------------------------------------------------------|-----------------|-----------------|
| 400 | SMS.6030 | Invalid source server ID.                            | 源端id参数非法        | 请输入正确的源端id      |
| 400 | SMS.6031 | The target server information is missing.            | 缺少目的端虚拟机参数      | 请添加目的端虚拟机参数     |
| 400 | SMS.6032 | The target server ID is missing.                     | 目的端虚拟机参数缺少vm_id | 请添加目的端虚拟机vm_id  |
| 400 | SMS.6033 | The disk information is missing.                     | 目的端虚拟机参数缺少磁盘信息  | 请添加目的端磁盘信息      |
| 400 | SMS.6034 | Invalid region name.                                 | Region名称非法      | 请输入合法的region名称  |
| 400 | SMS.6035 | Domain ID is missing.                                | 请求体缺少domainID   | 请添加domainID     |
| 400 | SMS.6101 | Invalid migration progress.                          | 迁移进度不符合范围       | 迁移进度应该为0~100的整数 |
| 400 | SMS.6102 | Parameters do not meet the JSON format requirements. | 参数Json格式不满足要求   | 请检查json格式是否正确   |
| 400 | SMS.6103 | Disk ID is missing.                                  | 缺少磁盘id          | 请添加磁盘id         |
| 400 | SMS.6104 | Physical volume name is missing.                     | 缺少卷名称           | 请添加卷名称          |
| 400 | SMS.6105 | Physical volume size is missing or invalid.          | 缺少卷大小信息或卷大小非法   | 请正确填写卷大小信息      |
| 400 | SMS.6301 | Database read or write error.                        | 数据库读写错误         | 请联系技术支持         |
| 400 | SMS.6302 | No migration speed limit found.                      | 找不到任务相关的限速信息    | 请重新设置限速         |

| 状态码 | 错误码      | 错误信息                                                                              | 描述                       | 处理措施           |
|-----|----------|-----------------------------------------------------------------------------------|--------------------------|----------------|
| 400 | SMS.6303 | The installed Agent is of an earlier version. Download the latest version.        | Agent版本过老，请下载新的agent     | 请下载最新的agent    |
| 400 | SMS.6304 | Fail to get config information.                                                   | 获取配置信息失败                 | 请联系技术支持        |
| 400 | SMS.6401 | Unsupported encoding mode.                                                        | 编码方式不支持                  | 请使用正确的编码方式     |
| 400 | SMS.6402 | The algorithm does not exist.                                                     | 没有这样的算法                  | 请联系技术支持        |
| 400 | SMS.6403 | Failed to split into strings of the specified size.                               | 无法分割成指定大小的字符串            | 请联系技术支持        |
| 400 | SMS.6404 | An error occurred during integer conversion.                                      | 整数转换过程中发生错误              | 请联系技术支持        |
| 400 | SMS.6405 | Invalid time format.                                                              | 时间格式非法                   | 请检查时间格式        |
| 400 | SMS.6407 | Current quota is not enough, please use MgC.                                      | 当前配额不足，请使用MgC!           | 请使用迁移中心MgC进行迁移 |
| 400 | SMS.6501 | You can add up to 1,000 source servers.                                           | 您最多只能添加1000个源端!          | 请删除已迁移完成的源端    |
| 400 | SMS.6502 | Environment check cannot be performed on the source server in the CHECKING state. | CHECKING状态的源端无法执行环境检测操作。 | 请联系技术支持        |

| 状态码 | 错误码      | 错误信息                                                                            | 描述                     | 处理措施         |
|-----|----------|---------------------------------------------------------------------------------|------------------------|--------------|
| 400 | SMS.6503 | Failed to obtain the OS version of the source server.                           | 无法获取源端操作系统版本。          | 请提供正确的源端系统类型 |
| 400 | SMS.6504 | Unsupported source server OS version or firmware type.                          | 操作系统版本或者固件类型不支持        | 查看兼容性列表      |
| 400 | SMS.6505 | Unknown source firmware type. It must be BIOS or UEFI.                          | 固件类型校验失败,必须为BIOS或者UEFI | 请使用其他方式迁移    |
| 400 | SMS.6506 | Failed to obtain the number of source server CPUs.                              | 无法获取CPU数量              | 请联系技术支持      |
| 400 | SMS.6507 | Failed to open the system directory of the source server.                       | 获取系统路径失败               | 请联系技术支持      |
| 400 | SMS.6508 | Incompatible disk format on the source server. Only GPT and MBR are compatible. | 源端磁盘格式不兼容,只支持GPT和MBR格式 | 请使用其他方式迁移    |
| 400 | SMS.6509 | Incompatible file system of the source server.                                  | 源端文件系统不兼容              | 请使用其他方式迁移    |
| 400 | SMS.6510 | The source server OS is an OEM system.                                          | 源端系统是OEM系统             | 请迁移后重新激活系统   |
| 400 | SMS.6511 | The source server lacks driver files.                                           | 源端缺少必要的驱动文件            | 请联系技术支持      |

| 状态码 | 错误码      | 错误信息                                                                                          | 描述               | 处理措施                |
|-----|----------|-----------------------------------------------------------------------------------------------|------------------|---------------------|
| 400 | SMS.6512 | The system services required for the migration on the source server are not running normally. | 迁移所需系统服务没有正常运行   | 请联系技术支持             |
| 400 | SMS.6513 | No administrator permissions on the source server.                                            | 缺少管理员权限          | 请检查源端当前账户是否具备管理员权限  |
| 400 | SMS.6514 | Failed to obtain the memory size of the source server.                                        | 无法获取内存大小         | 请联系技术支持             |
| 400 | SMS.6515 | The source server is paravirtualized.                                                         | 源端不支持半虚拟化        | 无法迁移，建议使用其他方式上云     |
| 400 | SMS.6516 | The Linux bootloader must be GRUB.                                                            | linux启动方式只支持grub | 请检查linux启动方式是否为grub |
| 400 | SMS.6517 | rsync not installed on the source server.                                                     | 源端没有安装rsync      | 请安装rsync            |
| 400 | SMS.6518 | The source server has a raw device.                                                           | 不支持裸设备           | 无法迁移，建议使用其他方式迁移     |
| 400 | SMS.6519 | Failed to obtain disk information.                                                            | 没有磁盘信息           | 请联系技术支持             |
| 400 | SMS.6520 | The source server is not in the AVAILABLE state.                                              | 源端不是available状态  | 请检查源端状态             |
| 400 | SMS.6521 | Token-based authentication failed.                                                            | Token校验失败        | 使用正确的Token          |

| 状态码 | 错误码      | 错误信息                                                                                            | 描述                                  | 处理措施                        |
|-----|----------|-------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------|
| 400 | SMS.6522 | The X-Auth-Token header field is missing.                                                       | 请求头没有X-Auth-Token                   | 请在请求头加入X-Auth-Token         |
| 400 | SMS.6523 | Apply for the permission required to operate SMS.                                               | 你没有权限操作SMS服务.                       | 请确保您拥有 sms_administrator 权限 |
| 400 | SMS.6524 | This operation is not allowed because you are not an OBT user.                                  | 未申请公测用户, 不能使用!                      | 请按要求申请公测                    |
| 400 | SMS.6525 | Account is frozen or restricted. Check account balance and status.                              | 账号或者资源处于冻结、受限状态, 请检查账号余额和账号状态       | 请联系技术支持                     |
| 400 | SMS.6526 | Insufficient quota to clone the target server.                                                  | 用户配额不足, 无法克隆新虚拟机                    | 请扩大虚拟机配额                    |
| 400 | SMS.6527 | The resource in the task does not belong to you.                                                | 当前资源不属于当前用户                         | 请检查当前用户的资源                  |
| 400 | SMS.6528 | Complete real-name authentication to invoke the SMS APIs.                                       | 未实名认证的用户不能调用 sms 接口                 | 请实名认证                       |
| 400 | SMS.6529 | Only accounts with sufficient balance and does not have security risks can invoke the SMS APIs. | 处于欠费状态、余额不足或者账号存在安全风险的用户不能调用 sms 接口 | 请联系技术支持                     |
| 400 | SMS.6530 | Invalid source server IP address.                                                               | 源端ip非法                              | 请输入正确的源端 ip                 |

| 状态码 | 错误码      | 错误信息                                                                                   | 描述                            | 处理措施                        |
|-----|----------|----------------------------------------------------------------------------------------|-------------------------------|-----------------------------|
| 400 | SMS.6531 | The boot partition does not exist.                                                     | BOOT分区不存在                     | 请检查源端boot分区是否存在             |
| 400 | SMS.6532 | The system disk must be on the first disk.                                             | 系统盘必须是第一块磁盘                   | 请检查系统盘是否为第一块磁盘              |
| 400 | SMS.6533 | VSS not installed on the source server.                                                | 源端的镜像服务VSS不存在                 | 请检查VSS服务是否存在并且是否启动          |
| 400 | SMS.6534 | No system directory information read.                                                  | 系统目录信息为空                      | 请联系技术支持                     |
| 400 | SMS.6535 | Servers booted with UEFI do not support auto-creation of target servers for migration. | uefi服务器不支持使用自动创建虚拟机方式进行迁移     | 请手动创建uefi机器，然后选择已有服务器方式进行迁移 |
| 400 | SMS.6536 | The source server runs Windows 2003. Network may be unavailable after migration.       | 源端是windows 2003系统，迁移后存在网络异常风险 | 请升级系统后进行迁移                  |
| 400 | SMS.6537 | SMS cannot migrate system disks larger than 1 TB.                                      | 系统盘大于1T                       | 请减小源端系统盘大小                  |
| 400 | SMS.6538 | The new partition or logical volume size is less than the used space size.             | 分区或逻辑卷调整后小于使用空间               | 请将分区或者逻辑卷调整得比已使用空间大1GB以上    |



| 状态码 | 错误码      | 错误信息                                                                                                                    | 描述                                 | 处理措施                |
|-----|----------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------|
| 400 | SMS.6539 | The disk space is less than the total size of all partitions.                                                           | 磁盘空间小于所有分区大小之和                     | 磁盘空间小于所有分区大小之和      |
| 400 | SMS.6540 | Partitions on target servers running Windows cannot be reduced.                                                         | windows不允许缩小分区大小                   | 请在源端磁盘管理压缩分区，然后重新注册 |
| 400 | SMS.6541 | The VG size is smaller than the combined size of all LVs.                                                               | volume group大小小于所有logical volume之和 | 请联系技术支持             |
| 400 | SMS.6542 | Your account has been frozen.                                                                                           | 您的账户已被冻结。                          | 请联系技术支持             |
| 400 | SMS.6543 | There is more than 1 TB of data to be migrated. It may slow down the migration or synchronization.                      | 迁移数据总量超过1T，存在迁移和同步慢的风险             | 请联系技术支持             |
| 400 | SMS.6544 | Network condition for migration is poor.                                                                                | 您当前的迁移网络环境较差                       | 请求技术支持              |
| 400 | SMS.6547 | Excessive read/write latency has been detected for the source disks. It may slow down the migration or synchronization. | 源端磁盘读写时延较大，存在迁移和同步慢的风险。            | 请优化磁盘性能             |

| 状态码 | 错误码      | 错误信息                                                                                                       | 描述                            | 处理措施                                    |
|-----|----------|------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------|
| 400 | SMS.6548 | The migration network performs poorly. It may slow down the migration or synchronization.                  | 源端与目的端之间的迁移网络状况欠佳，存在迁移和同步慢的风险 | 请优化网络质量                                 |
| 400 | SMS.6560 | Failed to obtain the project-level token.                                                                  | 获取project级token失败             | 请联系技术支持                                 |
| 400 | SMS.6561 | The target server is not booted with UEFI. Create a target server using the image whose boot mode is UEFI. | 源端是uefi系统，请使用uefi镜像创建目的端虚拟机   | 请使用uefi镜像创建目的端虚拟机                       |
| 400 | SMS.6601 | Invalid OS type.                                                                                           | 操作系统类型无效。                     | 请根据api文档设置os_type参数                     |
| 400 | SMS.6602 | Invalid target server EIP.                                                                                 | 目的服务器EIP无效                    | 请使用正确格式的ip                              |
| 400 | SMS.6603 | The connection to SMS was lost.                                                                            | 源端到服务端失去连接                    | 请重新建立源端到服务端的连接，详细资料请参考SMS帮助文档常见问题->迁移网络 |
| 400 | SMS.6604 | Failed to obtain ACL or firewall details for the target server.                                            | 查询目的端服务器ACL或防火墙信息失败           | 请联系技术支持                                 |
| 400 | SMS.6605 | ACL or security group configuration error.                                                                 | ACL或安全组设置错误。                  | 请修改ACL或安全组设置                            |
| 400 | SMS.6610 | The OS in the task conflicts with the source server OS.                                                    | 任务类型和源端系统类型不匹配                | 请检查任务类型和源端系统类型是否一致                      |

| 状态码 | 错误码      | 错误信息                                                                          | 描述                 | 处理措施                          |
|-----|----------|-------------------------------------------------------------------------------|--------------------|-------------------------------|
| 400 | SMS.6611 | Insufficient partition space than required.                                   | 分区空间小于所需空间         | 请增大分区空间                       |
| 400 | SMS.6612 | Invalid partition size. The partition size must be an integer multiple of MB. | 分区大小参数非法，必须是MB的整数倍 | 请输入正确的分区信息                    |
| 400 | SMS.6613 | 33 MB of space must be reserved for GPT disks.                                | GPT格式磁盘需要预留33MB空间  | GPT格式磁盘需要预留33MB空间             |
| 400 | SMS.6614 | The target disk space must be greater than the total space of all partitions. | 目标磁盘空间需大于所有分区空间总和  | 请增大目标磁盘空间                     |
| 400 | SMS.6615 | The target server has been added to a migration task.                         | 目标虚拟机已经被使用         | 请更换目标虚拟机                      |
| 400 | SMS.6616 | The current OS does not support block-level migration.                        | 当前操作系统版本不支持块迁移     | 请使用其他方式迁移                     |
| 400 | SMS.6617 | The current kernel does not support block-level migration.                    | 当前内核版本不支持块迁移       | 请使用其他方式迁移                     |
| 400 | SMS.6618 | Failed to obtain kernel details.                                              | 获取内核详情失败           | 请联系技术支持                       |
| 400 | SMS.6619 | Disk encryption key not available.                                            | 磁盘加密密钥不可用          | 请检查密钥状态是否正常并确保使用的是AES_256加密算法 |

| 状态码 | 错误码      | 错误信息                                                                            | 描述                        | 处理措施           |
|-----|----------|---------------------------------------------------------------------------------|---------------------------|----------------|
| 400 | SMS.6620 | Key %d is not enable.                                                           | 密钥%d未启用                   | 请检查密钥状态        |
| 400 | SMS.7101 | Template does not exist.                                                        | 模板不存在                     | 请检查模板是否存在      |
| 400 | SMS.7111 | All tasks associated with this template must be deleted first.                  | 模板已经关联任务，请先删除任务           | 请先删除任务         |
| 400 | SMS.7112 | Duplicate template name.                                                        | 模板名称重复                    | 请更换模板名称        |
| 400 | SMS.7113 | Maximum templates reached.                                                      | 模板超过最大数量                  | 请联系技术支持        |
| 400 | SMS.7301 | The specified migration template does not exist.                                | 指定的迁移参数模板不存在              | 请检查迁移模板是否存在    |
| 400 | SMS.7303 | The default migration template cannot be deleted.                               | 默认项目无法删除。                 | 请联系技术支持        |
| 400 | SMS.7304 | The default migration template does not exist.                                  | 没有默认迁移参数模板                | 请先创建默认迁移模板     |
| 400 | SMS.7311 | All source servers associated with the migration project must be deleted first. | 迁移项目已经关联源端，请删除相关源端再删除迁移项目 | 请删除相关源端再删除迁移项目 |
| 400 | SMS.7312 | Duplicate migration project name.                                               | 迁移项目名称重复                  | 请更换迁移项目名称      |

| 状态码 | 错误码      | 错误信息                                                                                                                                         | 描述                                          | 处理措施                   |
|-----|----------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------|
| 400 | SMS.7313 | The default migration project already exists.                                                                                                | 默认项目已经存在                                    | 请联系技术支持                |
| 400 | SMS.7321 | The region name in the template is inconsistent with that in the migration project.                                                          | 模板中region名称和迁移项目中的不符                        | 请联系技术支持                |
| 400 | SMS.7501 | No application ID generated.                                                                                                                 | 生成应用id失败                                    | 请联系技术支持                |
| 400 | SMS.7601 | Failed to delete the source server because a migration task is running on it.                                                                | 源端存在任务，不能删除                                 | 请联系技术支持                |
| 400 | SMS.7602 | The specified source server does not exist.                                                                                                  | 指定源端不存在                                     | 请检查源端是否存在              |
| 400 | SMS.7604 | Failed to generate the source server ID.                                                                                                     | 生成源端id失败                                    | 请联系技术支持                |
| 400 | SMS.7605 | The server has been set as the target server of another migration task. Select another server or delete the task associated with the server. | 该服务器已经被设置为其他迁移任务的目的端，请选择其他服务器或删除该服务器关联的迁移任务 | 请选择其他服务器或删除该服务器关联的迁移任务 |

| 状态码 | 错误码      | 错误信息                                                                                             | 描述                       | 处理措施       |
|-----|----------|--------------------------------------------------------------------------------------------------|--------------------------|------------|
| 400 | SMS.7606 | No migration task running on the source server.                                                  | 源端不存在迁移任务                | 请联系技术支持    |
| 400 | SMS.7703 | Task does not exist.                                                                             | 任务不存在                    | 请检查任务是否存在  |
| 400 | SMS.7705 | An error occurred when processing JSON files during task creation.                               | 创建任务时处理Json出现错误          | 请联系技术支持    |
| 400 | SMS.7706 | Task update failed.                                                                              | 更新迁移任务失败                 | 请联系技术支持    |
| 400 | SMS.7707 | The current Agent version does not support log upload.                                           | Agent版本不支持上传日志           | 请联系技术支持    |
| 400 | SMS.7711 | Invalid task name.                                                                               | 任务名称参数非法                 | 请输入合法的任务名称 |
| 400 | SMS.7712 | Invalid task type.                                                                               | 任务类型参数非法                 | 请输入合法的任务类型 |
| 400 | SMS.7713 | Only tasks in the Ready for next, Paused, or Error state can be started.                         | 只有就绪，暂停和错误状态可以启动任务       | 请调整任务状态    |
| 400 | SMS.7714 | Only running tasks can be paused.                                                                | 只有执行中的任务可以暂停             | 请调整任务状态    |
| 400 | SMS.7715 | Only tasks in the Finished state or in the Continuous synchronization stage can be synchronized. | 只有处于已完成状态或者持续同步阶段的任务才能同步 | 请调整任务状态    |

| 状态码 | 错误码      | 错误信息                                                                                           | 描述                    | 处理措施           |
|-----|----------|------------------------------------------------------------------------------------------------|-----------------------|----------------|
| 400 | SMS.7716 | Logs can be collected only after the current log collection is completed.                      | 上次日志收集完成前不能再收集日志      | 请等待日志收集完成      |
| 400 | SMS.7717 | Logs can be collected after the migration task is started.                                     | 启动任务前不能收集日志           | 请先启动任务         |
| 400 | SMS.7718 | Only tasks in the Synchronization failed state can be rolled back.                             | 只能处于同步失败阶段的才能回滚       | 请调整任务状态        |
| 400 | SMS.7719 | Tasks in current state cannot be deleted.                                                      | 当前状态的任务不允许删除          | 请调整任务状态        |
| 400 | SMS.7721 | Only target servers in tasks in the Continuous synchronization state can be cloned or started. | 只有持续同步中的任务可以克隆或启动目的端  | 请调整任务状态        |
| 400 | SMS.7722 | Only tasks where the target servers have successfully started can be restarted.                | 只有启动目的端成功的任务可以重启      | 请检查任务启动目的端是否成功 |
| 400 | SMS.7723 | Failed to delete the task. Ensure that the Agent is connected.                                 | 删除任务失败，请确保agent处于连接状态 | 请确保ageng处于连接状态 |
| 400 | SMS.7724 | No project ID found.                                                                           | 找不到project id         | 请联系技术支持        |

| 状态码 | 错误码      | 错误信息                                                                                                                                   | 描述                                                 | 处理措施                                  |
|-----|----------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------|
| 400 | SMS.7725 | No region information found.                                                                                                           | 找不到region信息                                        | 请联系技术支持                               |
| 400 | SMS.7726 | Failed to update the migration status or stage of the source server. Field copystate or migrationcycle is missing in the request body. | 更新源端复制状态或迁移周期失败，请求体中不包含copystate或migrationcycle字段。 | 请在请求体中添加缺少copystate或migrationcycle字段。 |
| 400 | SMS.7727 | Failed to update the migration status or stage of the source server. Field copystate or migrationcycle in the request body is empty.   | 更新源端复制状态或迁移周期失败，请求体copystate或migrationcycle值为空     | 请在请求体填写copystate或migrationcycle值。     |



| 状态码 | 错误码      | 错误信息                                                                                                            | 描述                                            | 处理措施                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----|----------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400 | SMS.7728 | Change server replication state or migration cycle failed. Values of copystate and migrationcycle do not match. | 更新源端复制状态或迁移周期失败，copystate与migrationcycle的值不匹配 | <p>请按照要求填写copystate或migrationcycle值：</p> <ul style="list-style-type: none"> <li>当migrationcycle状态为checking时，copystate只能unavailable/waiting/unconnected；</li> <li>当migrationcycle状态为setting时，copystate只能为waiting/unconnected；</li> <li>当migrationcycle状态为replicating时，copystate只能为initialize/replicate/deleting/stopping/error/stopped/unconnected；</li> <li>当migrationcycle状态为syncing时，copystate只能为syncing/cloning/deleting/stopping/error/stopped/unconnected；</li> <li>当migrationcycle状态为cutovering时，copystate只能为cutovering/deleting/stopping/error/stopped/unconnected；</li> </ul> |

| 状态码 | 错误码      | 错误信息                                                           | 描述               | 处理措施                                                                                                                                                        |
|-----|----------|----------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |          |                                                                |                  | <ul style="list-style-type: none"> <li>当 migrationcycle 状态为 cutovered 时, copystate 只能为 finished/ deleting/ stopping/error/ stopped/ unconnected。</li> </ul> |
| 400 | SMS.8101 | Failed to stop the target server.                              | 关闭目的端服务器失败       | 请联系技术支持                                                                                                                                                     |
| 400 | SMS.8102 | The target server is missing.                                  | SMS任务中目的端服务器为空   | 请设置目的端相关参数                                                                                                                                                  |
| 400 | SMS.8103 | The target server does not exist.                              | 目的端服务器不存在        | 请检查目的端服务器是否被删除                                                                                                                                              |
| 400 | SMS.8104 | Failed to obtain details about the target server.              | 查询目的端服务器详情失败     | 请联系技术支持                                                                                                                                                     |
| 400 | SMS.8105 | Failed to obtain the details about disks on the target server. | 查询目的端服务器磁盘详细信息失败 | 请联系技术支持                                                                                                                                                     |
| 400 | SMS.8106 | Invalid information about disks on the target server.          | 目的端磁盘信息无效        | 请检查目的端磁盘信息是否输入正确                                                                                                                                            |
| 400 | SMS.8107 | No agent image found on the target server.                     | 找不到目的端代理镜像       | 请检查代理镜像是否被删除                                                                                                                                                |
| 400 | SMS.8108 | Disk attachment failed.                                        | 挂载磁盘失败           | 请联系技术支持                                                                                                                                                     |
| 400 | SMS.8109 | No source server found.                                        | 找不到源端服务器         | 请检查服务器记录是否被删除                                                                                                                                               |

| 状态码 | 错误码      | 错误信息                                                                    | 描述                | 处理措施                       |
|-----|----------|-------------------------------------------------------------------------|-------------------|----------------------------|
| 400 | SMS.8110 | Disk detachment failed.                                                 | 卸载磁盘失败            | 请联系技术支持                    |
| 400 | SMS.8111 | No disk information found.                                              | 查询磁盘详情失败          | 请检查磁盘信息是否输入正确              |
| 400 | SMS.8112 | No snapshot information found.                                          | 查询快照信息失败          | 请检查快照是否存在                  |
| 400 | SMS.8113 | The snapshot does not exist.                                            | 快照不存在             | 请确认是否删除过快照                 |
| 400 | SMS.8114 | Failed to unlock the target server.                                     | 解除目的端服务器锁定失败      | 请检查是否有解锁权限                 |
| 400 | SMS.8115 | Maximum templates: 50                                                   | 创建模板不能超过50个       | 请联系技术支持                    |
| 400 | SMS.9001 | Invalid parameters.                                                     | 非法参数。             | 请检查参数是否正确                  |
| 400 | SMS.9002 | User tags are not supported.                                            | 租户标签暂不支持。         | 暂时不支持标签                    |
| 400 | SMS.9003 | Insufficient permissions.                                               | 权限不足。             | 请增加细粒度权限                   |
| 400 | SMS.9004 | The current account does not have the permission to execute policy {0}. | 权限不足，以下策略不允许执行:{} | 请增加细粒度权限                   |
| 400 | SMS.9005 | Failed to bind the enterprise project.                                  | 企业项目绑定失败。         | 请联系技术支持                    |
| 400 | SMS.9905 | Password query is not allowed on tasks in the current state.            | 当前任务状态不支持查询密码     | 请检查任务状态，只有在复制、同步中的任务才能进行查询 |
| 403 | SMS.6542 | Your account has been frozen!                                           | 您的账户已被冻结          | 请联系技术支持                    |

## 6.2 状态码

状态码如表6-1所示。

表 6-1 状态码

| 状态码 | 编码                            | 错误码描述                                                 |
|-----|-------------------------------|-------------------------------------------------------|
| 100 | Continue                      | 继续请求。<br>这个临时响应用来通知客户端，它的部分请求已经被服务器接收，且仍未被拒绝。         |
| 101 | Switching Protocols           | 切换协议。只能切换到更高级的协议。<br>例如，切换到HTTP的新版本协议。                |
| 200 | OK                            | GET和PUT操作正常返回。                                        |
| 201 | Created                       | 创建类的请求完全成功。                                           |
| 202 | Accepted                      | 已经接受请求，但未处理完成。                                        |
| 203 | Non-Authoritative Information | 非授权信息，请求成功。                                           |
| 204 | NoContent                     | 请求完全成功，同时HTTP响应不包含响应体。<br>在响应OPTIONS方法的HTTP请求时返回此状态码。 |
| 205 | Reset Content                 | 重置内容，服务器处理成功。                                         |
| 206 | Partial Content               | 服务器成功处理了部分GET请求。                                      |
| 300 | Multiple Choices              | 多种选择。请求的资源可包括多个位置，相应可返回一个资源特征与地址的列表用于用户终端（例如：浏览器）选择。  |
| 301 | Moved Permanently             | 永久移动，请求的资源已被永久的移动到新的URI，返回信息会包括新的URI。                 |
| 302 | Found                         | 资源被临时移动。                                              |
| 303 | See Other                     | 查看其它地址。<br>使用GET和POST请求查看。                            |
| 304 | Not Modified                  | 所请求的资源未修改，服务器返回此状态码时，不会返回任何资源。                        |
| 305 | Use Proxy                     | 所请求的资源必须通过代理访问。                                       |
| 306 | Unused                        | 已经被废弃的HTTP状态码。                                        |
| 400 | BadRequest                    | 非法请求。<br>建议直接修改该请求，不要重试该请求。                           |

| 状态码 | 编码                            | 错误码描述                                                                                   |
|-----|-------------------------------|-----------------------------------------------------------------------------------------|
| 401 | Unauthorized                  | 在客户端提供认证信息后，返回该状态码，表明服务端指出客户端所提供的认证信息不正确或非法。                                            |
| 402 | Payment Required              | 保留请求。                                                                                   |
| 403 | Forbidden                     | 请求被拒绝访问。<br>返回该状态码，表明请求能够到达服务端，且服务端能够理解用户请求，但是拒绝做更多的事情，因为该请求被设置为拒绝访问，建议直接修改该请求，不要重试该请求。 |
| 404 | NotFound                      | 所请求的资源不存在。<br>建议直接修改该请求，不要重试该请求。                                                        |
| 405 | MethodNotAllowed              | 请求中带有该资源不支持的方法。<br>建议直接修改该请求，不要重试该请求。                                                   |
| 406 | Not Acceptable                | 服务器无法根据客户端请求的内容特性完成请求。                                                                  |
| 407 | Proxy Authentication Required | 请求要求代理的身份认证，与401类似，但请求者应当使用代理进行授权。                                                      |
| 408 | Request Time-out              | 服务器等候请求时发生超时。<br>客户端可以随时再次提交该请求而无需进行任何更改。                                               |
| 409 | Conflict                      | 服务器在完成请求时发生冲突。<br>返回该状态码，表明客户端尝试创建的资源已经存在，或者由于冲突请求的更新操作不能被完成。                           |
| 410 | Gone                          | 客户端请求的资源已经不存在。<br>返回该状态码，表明请求的资源已被永久删除。                                                 |
| 411 | Length Required               | 服务器无法处理客户端发送的不带Content-Length的请求信息。                                                     |
| 412 | Precondition Failed           | 未满足前提条件，服务器未满足请求者在请求中设置的其中一个前提条件。                                                       |
| 413 | Request Entity Too Large      | 由于请求的实体过大，服务器无法处理，因此拒绝请求。为防止客户端的连续请求，服务器可能会关闭连接。如果只是服务器暂时无法处理，则会包含一个Retry-After的响应信息。   |
| 414 | Request-URI Too Large         | 请求的URI过长（URI通常为网址），服务器无法处理。                                                             |
| 415 | Unsupported Media Type        | 服务器无法处理请求附带的媒体格式。                                                                       |

| 状态码 | 编码                              | 错误码描述                                                                        |
|-----|---------------------------------|------------------------------------------------------------------------------|
| 416 | Requested range not satisfiable | 客户端请求的范围无效。                                                                  |
| 417 | Expectation Failed              | 服务器无法满足Expect的请求头信息。                                                         |
| 422 | UnprocessableEntity             | 请求格式正确，但是由于含有语义错误，无法响应。                                                      |
| 429 | TooManyRequests                 | 表明请求超出了客户端访问频率的限制或者服务端接收到多于它能处理的请求。建议客户端读取相应的Retry-After首部，然后等待该首部指出的时间后再重试。 |
| 500 | InternalServerError             | 表明服务端能被请求访问到，但是不能理解用户的请求。                                                    |
| 501 | Not Implemented                 | 服务器不支持请求的功能，无法完成请求。                                                          |
| 502 | Bad Gateway                     | 充当网关或代理的服务器，从远端服务器接收到了一个无效的请求。                                               |
| 503 | ServiceUnavailable              | 被请求的服务无效。<br>建议直接修改该请求，不要重试该请求。                                              |
| 504 | ServerTimeout                   | 请求在给定的时间内无法完成。客户端仅在为请求指定超时（Timeout）参数时会得到该响应。                                |
| 505 | HTTP Version not supported      | 服务器不支持请求的HTTP协议的版本，无法完成处理。                                                   |

同时，在Body中应有如下json来描述具体的错误信息

```
{"error_code":"S3M.XXXX","error_msg":"错误描述信息"}
```

## 6.3 获取项目 ID

### 操作场景

在调用接口的时候，部分URL中需要填入项目ID，所以需要获取到项目ID。有如下两种获取方式：

- [调用API获取项目ID](#)
- [从控制台获取项目ID](#)

### 调用 API 获取项目 ID

项目ID可以通过调用[查询指定条件下的项目列表](#)API获取。

获取项目ID的接口为“GET https://{Endpoint}/v3/projects”，其中{Endpoint}为IAM的终端节点，可以从[地区和终端节点](#)获取。接口的认证鉴权请参见[认证鉴权](#)。

响应示例如下，其中projects下的“id”即为项目ID。

```
{
  "projects": [
    {
      "domain_id": "65382450e8f64ac0870cd180d14e6xxx",
      "is_domain": false,
      "parent_id": "65382450e8f64ac0870cd180d14e6xxx",
      "name": "project_name",
      "description": "",
      "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6xxx"
      },
      "id": "a4a5d4098fb4474fa22cd05f897d6xx",
      "enabled": true
    }
  ],
  "links": {
    "next": null,
    "previous": null,
    "self": "https://www.example.com/v3/projects"
  }
}
```

## 从控制台获取项目 ID

从控制台获取项目ID的步骤如下：

1. 登录管理控制台。
2. 鼠标悬停在右上角的用户名，选择下拉列表中的“我的凭证”。  
在“API凭证”页面的项目列表中查看项目ID。

图 6-1 查看项目 ID

