

Alibaba Cloud

ServerMigrationCenter API Reference

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Document conventions



Style	Description	Example
 Danger	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 Danger: Resetting will result in the loss of user configuration data.
 Warning	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 Warning: Restarting will cause business interruption. About 10 minutes are required to restart an instance.
 Notice	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	 Notice: If the weight is set to 0, the server no longer receives new requests.
 Note	A note indicates supplemental instructions, best practices, tips, and other content.	 Note: You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click Settings > Network > Set network type .
Bold	Bold formatting is used for buttons, menus, page names, and other UI elements.	Click OK .
<code>Courier font</code>	Courier font is used for commands	Run the <code>cd /d C:/window</code> command to enter the Windows system folder.
<i>Italic</i>	Italic formatting is used for parameters and variables.	<code>bae log list --instanceid</code> <i>Instance_ID</i>
[] or [a b]	This format is used for an optional value, where only one item can be selected.	<code>ipconfig [-all -t]</code>
{ } or {a b}	This format is used for a required value, where only one item can be selected.	<code>switch {active stand}</code>

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1. API overview

This topic describes the API operations that are available in Server Migration Center (SMC). If you are familiar with network service protocols and more than one programming language, we recommend that you use the SMC API to migrate source servers to Alibaba Cloud.

Limits

When you call the SMC API, note the limits on the number of migration sources that can be imported and the number of migration tasks that can be created or concurrently executed. For more information, see [Limits](#). When API descriptions, optional parameter values, and available resources are not consistent with the limits, the limits take precedence.

Instructions

SMC allows you to send HTTP or HTTPS requests by using the GET and POST methods. For more information, see [Call the SMC API](#).

Alibaba Cloud provides a quick start guide for the SMC API. For more information, see [Quick start](#). For more information about the SMC API, see [API operations](#).

2.API operations

The following tables list the API operations that are available in Server Migration Center (SMC).

For more information, visit [OpenAPI Explorer](#).

Migration source

API	Description
DescribeSourceServers	Queries one or more migration sources.
DeleteSourceServer	Deletes a migration source.
ModifySourceServerAttribute	Modifies the name and description of a migration source.

Migration task

API	Description
CreateReplicationJob	Creates a migration task.
DescribeReplicationJobs	Queries one or more migration tasks.
DeleteReplicationJob	Deletes a migration task.
ModifyReplicationJobAttribute	Modifies the attributes of a migration task.
StartReplicationJob	Starts a migration task.
StopReplicationJob	Stops a migration task.

Tag

API	Description
TagResources	Creates and binds tags to specified SMC resources. The resources include migration sources and migration tasks.
ListTagResources	Queries the tags that are bound to one or more SMC resources. The resources include migration sources and migration tasks.
UntagResources	Unbinds and deletes tags from specified SMC resources. The resources include migration sources and migration tasks.

3. Quick start

This topic describes how to call the SMC API by using developer tools such as Alibaba Cloud CLI, OpenAPI Explorer, and Alibaba Cloud SDK. This topic uses the `CreateReplicationJob` operation as an example.

Prerequisites

Alibaba Cloud CLI is installed and configured. For more information about how to install Alibaba Cloud CLI on various operating systems, see the following topics:

- [Windows](#)
- [Linux](#)
- [MacOS](#)

Use Alibaba Cloud CLI to call the SMC API

This example uses Alibaba Cloud CLI to call the `CreateReplicationJob` operation to create a migration task. Before you call the operation, read the API reference and query the required request parameters. For more information, see [API operations](#). If an error occurs, you can view troubleshooting suggestions in the corresponding API documentation.

1. Call the `DescribeSourceServers` operation to obtain the ID of the migration source:

```
aliyun smc DescribeSourceServers
```

2. Run the following command to call the `CreateReplicationJob` operation to create a migration task:

```
aliyun smc CreateReplicationJob --RegionId <TheRegionId> --SourceId s-bp1ebo013cd21t4r****
```

The following command output indicates that the migration task is initiated.

```
{"RequestId":"16B856F6-EFFB-4397-8A8A-CB73FA*****","JobId":"j-2ze33rsym34h1hf5*****"}
```

3. Run the following command to call the `DescribeReplicationJobs` operation to query the status of the created migration task:

```
aliyun smc DescribeReplicationJobs --JobId j-2ze33rsym34h1hf5****
```

Use OpenAPI Explorer to call the SMC API


This example uses OpenAPI Explorer to call the `CreateReplicationJob` operation to create a migration task. Before you call the operation, read the API reference and query the required request parameters. For more information, see [API operations](#). If an error occurs, you can view troubleshooting suggestions in the corresponding API documentation.

1. Call the [DescribeSourceServers](#) operation to obtain the ID of the migration source.
2. Call the [CreateReplicationJob](#) operation to create a migration task.
3. Call the [DescribeReplicationJobs](#) operation to query the status of the created migration task.

For more information about OpenAPI Explorer, see [What is OpenAPI Explorer?](#).

Use the SMC SDK for Java to call the SMC API

This example uses the SMC SDK for Java to call the `CreateReplicationJob` operation to create a migration task. You can obtain the SMC SDK from [Git Hub Repo Alibaba Cloud](#). Before you call the operation, read the API reference and query the required request parameters. For more information, see [API operations](#). If an error occurs, you can view troubleshooting suggestions in the corresponding API documentation.

 **Note** You must specify the `<AccessKey>`, `<AccessSecret>`, `<RegionId>`, and `<SystemDiskSize>` parameters based on your business scenario. `<AccessKey>` indicates the AccessKey ID. `<AccessSecret>` indicates the AccessKey secret. `<RegionId>` indicates the ID of the destination Alibaba Cloud region. `<SystemDiskSize>` indicates the system disk size of the destination Alibaba Cloud ECS instance. For more information, see [, , and Migration task request parameters](#).

```
import com.aliyuncs.DefaultAcsClient;
import com.aliyuncs.IAcsClient;
import com.aliyuncs.exceptions.ClientException;
import com.aliyuncs.exceptions.ServerException;
import com.aliyuncs.profile.DefaultProfile;
import com.google.gson.Gson;
import java.util.*;
import com.aliyuncs.smc.model.v20190601.*;
public class smcDemo {
    public static void main(String[] args) {
        DefaultProfile profile = DefaultProfile.getProfile("<RegionId>", "<AccessKey>", "<AccessSecret>");
        IAcsClient client = new DefaultAcsClient(profile);
        CreateReplicationJobRequest request = new CreateReplicationJobRequest();
        request.setSystemDiskSize(150);
        request.setSourceId("s-bp1ebo013cd21t4r****");
        try {
            CreateReplicationJobResponse response = client.getAcsResponse(request);
            System.out.println(new Gson().toJson(response));
        } catch (ServerException e) {
            e.printStackTrace();
        } catch (ClientException e) {
            System.out.println("ErrCode:" + e.getErrCode());
            System.out.println("ErrMsg:" + e.getErrMsg());
            System.out.println("RequestId:" + e.getRequestId());
        }
    }
}
```


4. Call the SMC API

The Server Migration Center (SMC) API is an RPC-based API and can be called by using the GET and POST methods. This topic describes how to call the SMC API. Each SMC API request must be signed and authenticated.

Tools

You can use developer tools such as OpenAPI Explorer, Alibaba Cloud CLI, Cloud Shell, and SDKs to debug and call Alibaba Cloud APIs.

- OpenAPI Explorer

[OpenAPI Explorer](#) is a visual web API calling tool. You can call Alibaba Cloud APIs to send requests and view response parameters in OpenAPI Explorer. For more information, see [Alibaba Cloud OpenAPI Explorer User Guide](#).

- Alibaba Cloud CLI

Alibaba Cloud CLI is an open source tool that is built on Alibaba Cloud SDK for Go. You can use Alibaba Cloud CLI to manage your Alibaba Cloud resources. For more information, see [Alibaba Cloud CLI User Guide](#).

- Cloud Shell

Cloud Shell is a web-based command line tool. You can use Cloud Shell from any browser to run cloud commands and manage Alibaba Cloud resources. For more information, see [Cloud Shell User Guide](#).

- SMC SDK

You can obtain SMC SDKs from [GitHub Repo Alibaba Cloud](#).

Request syntax

This section describes the structure of an HTTP or HTTPS API request. Use the following URL format for a GET request:

```
http(s)://Endpoint/?Action=xx&Parameters
```

- Endpoint: the endpoint of the cloud service. Example: `smc.aliyuncs.com`.
- Action: the operation that you want to perform in the current request. For example, you can create a migration task by setting this value to `CreateReplicationJob`.
- Parameters: the request parameters, which consist of both common and API-specific request parameters. Separate the request parameters with ampersands (`&`).

The following example shows how to call the `CreateReplicationJob` operation:

```
https://smc.aliyuncs.com/?Action=CreateReplicationJob
&SystemDiskSize=125
&Common request parameters
```

Endpoints

The endpoint of the SMC API is `smc.aliyuncs.com`.

Common parameters

The following table describes the common request parameters that you can specify when you send GET requests to call the SMC API.

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateReplicationJob	The operation that you want to perform. For more information, see API operations .
AccessKeyId	String	Yes	LTAIpa4*****fjx	The AccessKey ID. For more information, see Create an AccessKey pair .
Signature	String	Yes	OLeaidS1JvxuMvnyH0wuj%2BuX5qY%3D	The signature string of the current request. For more information, see Request signatures .
SignatureMethod	String	Yes	HMAC-SHA1	The encryption method of the signature string. Set the value to HMAC-SHA1.
SignatureVersion	String	Yes	1.0	The version of the signature algorithm. Set the value to 1.0.
SignatureNonce	String	Yes	3ee8c1b8-****-44af-****-4e0ad82fd6cf	A unique, random number used to prevent network replay attacks. You must use different numbers for different requests.
Timestamp	String	Yes	2018-01-01T12:00:00Z	The timestamp of the request. Specify the time in the ISO 8601 standard in the <code>yyyy-MM-ddTHH:mm:ssZ</code> format. The time must be in UTC.
Version	String	Yes	2014-08-28	The version number of the API. The value must be in the <code>YYYY-MM-DD</code> format. Set the value to 2019-06-01.
Format	String	No	json	The format in which to return the response. Valid values: JSON and XML. Default value: JSON.

RAM authorization

The following table describes the authentication rules for some SMC API operations. For information about the Alibaba Cloud Resource Name (ARN) formats of SMC API resources, see [RAM terms](#).

Action	ARN value
DeleteSourceServer	acs:smc:\$regionid:\$accountid:sourceServer/\$sourceId
DescribeSourceServers	acs:smc:\$regionid:\$accountid:sourceServer/*
ModifySourceServerAttribute	acs:smc:\$regionid:\$accountid:sourceServer/\$sourceId
CreateReplicationJob	<ul style="list-style-type: none">acs:smc:\$regionid:\$accountid:sourceServer/\$sourceIdacs:smc:\$regionid:\$accountid:replicationJob/*
DeleteReplicationJob	acs:smc:\$regionid:\$accountid:replicationJob/\$jobId
DescribeReplicationJobs	acs:smc:\$regionid:\$accountid:replicationJob/*
ModifyReplicationJobAttribute	acs:smc:\$regionid:\$accountid:replicationJob/\$jobId
StartReplicationJob	acs:smc:\$regionid:\$accountid:replicationJob/\$jobId
StopReplicationJob	acs:smc:\$regionid:\$accountid:replicationJob/\$jobId

5. Service linked roles for SMC

This topic describes the `AliyunServiceRoleForSMC` service linked role for Server Migration Center (SMC). It also describes how to delete the role.

Background information

Resource Access Management (RAM) provides a service linked role named `AliyunServiceRoleForSMC` for SMC. For more information, see [Service linked roles](#). When a migration source is imported, SMC creates a service linked role named `AliyunServiceRoleForSMC`. During a migration task, SMC uses the `AliyunServiceRoleForSMC` service linked role to access Elastic Compute Service (ECS) instances.

AliyunServiceRoleForSMC

- Role name: `AliyunServiceRoleForSMC`
- Policy name: `AliyunServiceRoleForSMC`
- The policy specifies the following permissions:

```
{
  "Version": "1",
  "Statement": [
    {
      "Action": [
        "ecs:DescribeAvailableResource",
        "ecs:DescribeZones",
        "ecs:RunInstances",
        "ecs:DescribeInstances",
        "ecs:StopInstance",
        "ecs:DeleteInstance",
        "ecs:AuthorizeSecurityGroup",
        "ecs:DescribeSecurityGroupAttribute",
        "ecs:CreateSecurityGroup",
        "ecs>DeleteSecurityGroup",
        "ecs:DescribeSecurityGroups",
        "ecs:CreateSnapshot",
        "ecs>DeleteSnapshot",
        "ecs:DescribeSnapshots",
        "ecs:CreateImage",
        "ecs:DescribeImages",
        "ecs:DescribeDisks",
        "ecs:DescribeAccountAttributes",
        "ecs:StartInstance",
        "ecs>DeleteImage",
        "ecs:DescribeLaunchTemplates",
        "ecs:DescribeLaunchTemplateVersions"
```

```
    "ecs:DescribeLaunchTemplateVersions",
    "ecs:DescribeKeyPairs",
    "ecs:DetachDisk",
    "ecs:ReplaceSystemDisk",
    "ecs:AttachDisk",
    "ecs>DeleteDisk"
  ],
  "Resource": "*",
  "Effect": "Allow"
},
{
  "Action": [
    "vpc:CreateVpc",
    "vpc:CreateVSwitch",
    "vpc:DescribeVpcs",
    "vpc>DeleteVSwitch",
    "vpc>DeleteVpc",
    "vpc:DescribeVSwitches"
  ],
  "Resource": "*",
  "Effect": "Allow"
},
{
  "Action": [
    "ram:GetRole",
    "cr:GetRepository"
  ],
  "Resource": "*",
  "Effect": "Allow"
},
{
  "Action": "ram:PassRole",
  "Resource": "*",
  "Effect": "Allow",
  "Condition": {
    "StringEquals": {
      "acs:Service": [
        "ecs.aliyuncs.com"
      ]
    }
  }
}
```

```
},
{
  "Action": "ram:DeleteServiceLinkedRole",
  "Resource": "*",
  "Effect": "Allow",
  "Condition": {
    "StringEquals": {
      "ram:ServiceName": "smc.aliyuncs.com"
    }
  }
}
]
```

Delete the service linked role for SMC

You can manually delete the `AliyunServiceRoleForSMC` service linked role. After it is deleted, SMC no longer obtains permissions to access ECS resources. Before you delete the `AliyunServiceRoleForSMC` service linked role, you must use one of the following methods to delete the migration source that is associated with the role.

- Log on to the [Server Migration Center console](#). In the left-side navigation pane, click **Migration Sources**. On the Migration Sources page, delete the migration source that you want to delete.
- Call the [DeleteSourceServer](#) operation to delete the migration source.

After the migration source is deleted, you can delete the associated service linked role. For more information, see [Delete a RAM role](#).

6. Migration sources

6.1. DeleteSourceServer

Deletes a migration source.

Description

- If the migration source is being used by a running migration task, it cannot be deleted.
- If the migration source is being used by a migration task that is not in the running state, you must set the `Force` parameter to true before you can delete the migration source.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteSourceServer	The operation that you want to perform. Set this parameter to DeleteSourceServer.
SourceId	String	Yes	s-bp17m1vi6x20c6g6****	The ID of the migration source.
Force	Boolean	No	true	Specifies whether to forcibly delete the migration source. <ul style="list-style-type: none"> • true: specifies to forcibly delete the migration source, the corresponding migration task, and the intermediate resources of the task. • false: specifies to not delete the migration source if it is being used by a migration task.

Response parameters

Parameter	Type	Example	Description
RequestId	String	473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E	The ID of the request.

Examples

Sample requests

```
http(s)://smc.aliyuncs.com/? Action=DeleteSourceServer
&SourceId=s-bp17m1vi6x20c6g6****
&<Common request parameters>
```

Sample success responses

XML format

```
<DeleteReplicationJobResponse>
  <RequestId>473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E</RequestId>
</DeleteReplicationJobResponse>
```

JSON format

```
{
  "RequestId": "473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	SourceServerState.Invalid	The specified source server status is invalid.	The error message returned because the operation is not supported while the source server is in the current status.
400	SourceServer.WithRunningReplicationJob	The specified source server has related replication jobs that are running.	The error message returned because the migration source is being used by a running migration task.
400	ReplicationJob.Related	The specified source server has related replication jobs.	The error message returned because the migration source is being used by a migration task.
500	InternalServerError	An error occurred while processing your request. Please try again. If the problem still exists, please submit a ticket.	The error message returned because an internal error has occurred. Try again later. If the error persists, submit a ticket.

For a list of error codes, visit the [API Error Center](#).

6.2. DescribeSourceServers

Queries migration sources.

Description

The AND operator is used to define the relationship between multiple request parameters. If a parameter is not specified, it will not be included in the filtering conditions.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeSourceServers	The operation that you want to perform. Set the value to DescribeSourceServers.
SourceId.N	RepeatList	No	s-bp1e2fsl57knvuu g****	The list of migration source IDs.
JobId	String	No	j-bp19vlwm0tyigb mj****	The ID of the migration task.
State	String	No	Available	The status of the migration source. Valid values: <ul style="list-style-type: none"> Unavailable, including Inactive and InError Available InUse Deleting
Name	String	No	testSourceServer Name	The name of the migration source. The name must be 2 to 128 characters in length. It must start with a letter and cannot start with http:// or https://. The name can contain digits, colons (:), underscores (_), and hyphens (-). Default value: null.
PageNumber	Integer	No	1	The number of the page to return. Initial value: 1. Default value: 1.

Parameter	Type	Required	Example	Description
PageSize	Integer	No	10	The number of entries to return on each page. Valid values: 1 to 50. Default value: 10.

Response parameters

Parameter	Type	Example	Description
PageNumber	Integer	1	The page number of the returned page.
PageSize	Integer	10	The number of entries returned per page.
RequestId	String	410E6073-66D0-45D3-AB3E-4DC3F5E42CAA	The ID of the request.
SourceServers	Array		The array of migration sources.
SourceServer			
AgentVersion	String	1.5.2.3	The version number of the SMC client.
Architecture	String	x86_64	The system architecture of the migration source.
CreationTime	String	2019-06-27T02:58:09Z	The time when the migration source was created.
DataDisks	Array		The array of data disks on the migration source.
DataDisk			
Index	Integer	1	The index number of the data disk.
Parts	Array		The information of data disk partitions.
Part			

Parameter	Type	Example	Description
CanBlock	Boolean	false	Indicates whether to enable block replication for data disk partitions.
Device	String	1_0	The device ID of the data disk partition.
Need	Boolean	false	Indicates whether the data disk partition must be selected.
Path	String	/home/data	The path of the data disk partition.
SizeBytes	Long	21474836480	The size of the data disk partition. Unit: bytes.
Path	String	/home/data	The path of data disk N.
Size	Integer	20	The size of data disk N. Unit: GiB.
Description	String	Server Source Imported By GotoAliyun.	The description of the migration source.
ErrorCode	String	SourceServer.Offline	The status error code of the migration source.
HeartbeatRate	Integer	30	The interval at which heartbeats are sent from the SMC client. Unit: seconds.
JobId	String	j-bp19vlwm0tyigbmj* ***	The ID of the last migration task.
KernelLevel	Integer	1	The kernel level of the migration source.
Name	String	SourceServerName	The name of the migration source.
Platform	String	OpenSUSE	The platform of the migration source.
ReplicationDriver	String	SMT	The replication driver used for migration. Default value: SMT.

Parameter	Type	Example	Description
SourceId	String	S- bp1e2fsl57knvuug** **	The ID of the migration source.
State	String	InUse	The status of the migration source.
StatusInfo	String	<pre>{"error_code": "S1", "error_msg": "Rsync not found. Please install rsync."}</pre>	The status information of the migration source. This parameter is returned if the migration source is in the InError state. The parameter must be specified as key-value pairs in JSON format. Example: <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <pre>error_code error_msg</pre> </div>
SystemDiskPart s	Array		The information of system disk partitions.
SystemDiskPart			
CanBlock	Boolean	true	Indicates whether to enable block replication for partitions on the system disk.
Device	String	0_0	The device ID of the system disk partition.
Need	Boolean	true	Indicates whether to select a partition on the system disk.
Path	String	/boot	The path of the system disk partition.
SizeBytes	Long	254803968	The size of the system disk partition. Unit: bytes.
SystemDiskSize	Integer	40	The system disk size of the migration source. Unit: GiB.

Parameter	Type	Example	Description
SystemInfo	String	<pre>{\"agent_mode\": \"daemon\", \"agent_type\": \"aliyun\", \"client_type\": \"\", \"cores\": \"2\", \"cpu_usage\": \"0.00\", \"hostname\": \"ixxxx\", \"ip4\": \"10.0.0.1\", \"memory\": \"8.00\", \"memory_usage\": \"3.61\"}</pre>	<p>The system information of the migration source. The parameter must be specified as key-value pairs in the JSON format. The key-value pairs are extensible and have fixed keys. The maximum value is 1 KB. Example:</p> <pre>AGENT_MODE HOSTNAME IPV4 IPV6 CORES CPU_USAGE MEMORY MEMORY_USAGE</pre>
TotalCount	Integer	1	The sum of migration sources.

Examples

Sample requests

```
http(s)://smc.aliyuncs.com/? Action=DescribeSourceServers
&SourceId.1=s-bp1e2fsl57knvug****
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeSourceServersReponse>
  <SourceServers>
    <SourceServer>
      <Description>Server Source Imported By GotoAliyun. Hostname: ubuntu14 IP Address: 192.168. **. *
    *</Description>
      <SystemInfo>{\"agent_mode\": \"daemon\", \"agent_type\": \"aliyun\", \"client_type\": \"\", \"cores\": \"1\", \"cpu_i
nfo\": \"\", \"cpu_usage\": \"0.00\", \"hostname\": \"ubuntu14\", \"ip4\": \"192.168. **. **\", \"memory\": \"1.00\", \"memory_us
age\": \"0.73\"}</SystemInfo>
      <Platform>Ubuntu</Platform>
      <Architecture>x86_64</Architecture>
      <AgentVersion>2.2.0</AgentVersion>
      <SystemDiskSize>9</SystemDiskSize>
```

```

<SourceId>s-bp1e2fsl57knvuug****</SourceId>
<SystemDiskParts>
  <SystemDiskPart>
    <Path>/boot</Path>
    <Device>0_0</Device>
    <CanBlock>>true</CanBlock>
    <SizeBytes>254803968</SizeBytes>
  </SystemDiskPart>
  <SystemDiskPart>
    <Path>/</Path>
    <Device>0_1</Device>
    <CanBlock>>true</CanBlock>
    <SizeBytes>9403629568</SizeBytes>
  </SystemDiskPart>
</SystemDiskParts>
<Name>testSourceServerName</Name>
<KernelLevel>1</KernelLevel>
<ReplicationDriver>SMT</ReplicationDriver>
<State>Unavailable</State>
<CreationTime>2020-04-26T12:49:10Z</CreationTime>
<HeartbeatRate>30</HeartbeatRate>
<ErrorCode>SourceServer.Offline</ErrorCode>
<JobId>j-bp19vlwm0tyigbmj****</JobId>
</SourceServer>
</SourceServers>
<TotalCount>1</TotalCount>
<RequestId>410E6073-66D0-45D3-AB3E-4DC3F5E42CAA</RequestId>
<PageSize>10</PageSize>
<PageNumber>1</PageNumber>
</DescribeSourceServersReponse>

```

JSON format

```

{
  "SourceServers": {
    "SourceServer": [
      {
        "Description": "Server Source Imported By GotoAliyun. Hostname: ubuntu14 IP Address: 192.168. **. **",
        "SystemInfo": "{\"agent_mode\":\"daemon\",\"agent_type\":\"aliyun\",\"client_type\":\"\",\"cores\":\"1\", \"cpu_info\":\"\", \"cpu_usage\":\"0.00\", \"hostname\":\"ubuntu14\", \"ipv4\":\"192.168. **. **\", \"memory\": \"1.00\", \"memory_usage\":\"0.73\"}"
      }
    ]
  }
}

```

```
"Platform": "Ubuntu",
"Architecture": "x86_64",
"AgentVersion": "2.2.0",
"SystemDiskSize": 9,
"SourceId": "s-bp1e2fsl57knvuug****",
"SystemDiskParts": {
  "SystemDiskPart": [
    {
      "Path": "/boot",
      "Device": "0_0",
      "CanBlock": true,
      "SizeBytes": 254803968
    },
    {
      "Path": "/",
      "Device": "0_1",
      "CanBlock": true,
      "SizeBytes": 9403629568
    }
  ]
},
"Name": "testSourceServerName",
"KernelLevel": 1,
"ReplicationDriver": "SMT",
"State": "Unavailable",
"CreationTime": "2020-04-26T12:49:10Z",
"HeartbeatRate": 30,
"ErrorCode": "SourceServer.Offline",
"JobId": "j-bp19vlwm0tyigbmj****"
}
]
},
"TotalCount": 1,
"RequestId": "410E6073-66D0-45D3-AB3E-4DC3F5E42CAA",
"PageSize": 10,
"PageNumber": 1
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

6.3. ModifySourceServerAttribute

Modifies the name and description of a migration source.

Description

This operation can be called regardless of the status of the migration source.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifySourceServerAttribute	The operation that you want to perform. Set this parameter to ModifySourceServerAttribute.
SourceId	String	Yes	S-bp17m1vi6x20c6g6****	The ID of a source server.
Name	String	No	testSourceServerName	The name of the migration source. The name must be 2 to 128 characters in length and can contain letters, digits, colons (:), underscore (_), and hyphens (-). The name must start with a letter and cannot start with http:// or https://. Default value: null.
Description	String	No	This is a source server.	The description of the migration source. The parameter value must meet the following requirements: <ul style="list-style-type: none"> It can be up to 256 characters in length. It cannot start with http:// or https://. If this parameter is not specified, it is an empty string by default. Default value: null.

Response parameters

Parameter	Type	Example	Description
RequestId	String	473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E	The ID of the request.

Examples

Sample requests

```
http(s)://smc.aliyuncs.com/? Action=ModifySourceServerAttribute
&SourceId=s-bp17m1vi6x20c6g6****
&<Common request parameters>
```

Sample success responses

XML format

```
<DeleteReplicationJobResponse>
  <RequestId>473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E</RequestId>
</DeleteReplicationJobResponse>
```

JSON format

```
{
  "RequestId": "473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	SourceServerState.Invalid	The specified source server status is invalid.	The error message returned because the operation is not supported while the source server is in the current status.
400	SourceServerName.Duplicate	The specified source server name already exists. Please modify the source server name.	The error message returned because the specified migration source name already exists. Modify the migration source name.
500	InternalServerError	An error occurred while processing your request. Please try again. If the problem still exists, please submit a ticket.	The error message returned because an internal error has occurred. Try again later. If the error persists, submit a ticket.

For a list of error codes, visit the [API Error Center](#).

7. Migration tasks

7.1. CreateReplicationJob

Creates a migration task for a source server.

Description

- You can create migration tasks only for source servers that are in the Active state.
- Each source server can be associated with only one migration task that is in the Ready, Running, Stopped, Waiting, InError, or Expired state.
- You can create a maximum of 100 migration tasks for each Alibaba Cloud account.
- If you migrate a source server to a destination image, you must specify the ImageName, SystemDiskSize, and DataDisk parameters.
- If you use a virtual private cloud (VPC) to migrate data, the VSwitchId parameter is required but the VpcId parameter is optional.
- SMC allows you to migrate source servers to Docker container images. You can use SMC to migrate containerized applications to Container Registry at low costs.

Debugging


OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters


Parameter	Type	Required	Example	Description
Action	String	Yes	CreateReplicationJob	The operation that you want to perform. Set the value to CreateReplicationJob.
RegionId	String	Yes	cn-hangzhou	The ID of the destination Alibaba Cloud region. For example, if you want to migrate the source server to Shanghai, set the value to <code>cn-shanghai</code> . You can call the DescribeRegions operation to query the latest list of Alibaba Cloud regions.
SourceId	String	Yes	s-bp1e2fsl57knvuu g****	The ID of the source server.

Parameter	Type	Required	Example	Description
SystemDiskSize	Integer	Yes	80	<p>The system disk size of the destination ECS instance. Unit: GiB. Valid values: 20 to 500.</p> <div style="background-color: #e1f5fe; padding: 10px; border: 1px solid #cfcfcf;"> <p> Note The value must be greater than the used space of the system disk on the source server. For example, if the total size of the source disk is 500 GiB and the used space is 100 GiB, the value of this parameter must be greater than 100 GiB.</p> </div>
ClientToken	String	No	123e4567-e89b-12d3-a456-426655440000	<p>The client token that is used to guarantee the idempotence of the request. You can use the client to generate the value. The token can contain only ASCII characters and cannot exceed 64 characters in length. For more information, see How to ensure idempotence.</p>
Name	String	No	testMigrationTaskName	<p>The name of the migration task. The name must meet the following requirements:</p> <ul style="list-style-type: none"> • It must be unique. • It must be 2 to 128 characters in length and can contain digits, colons (:), underscores (_), and hyphens (-). It must start with a letter and cannot start with <code>http://</code> or <code>https://</code>.

Parameter	Type	Required	Example	Description
Description	String	No	This_is_a_migration_task	<p>The description of the migration task.</p> <p>The description must be 2 to 128 characters in length and can contain digits, colons (:), underscores (_), and hyphens (-). It must start with a letter and cannot start with <code>http://</code> or <code>https://</code>.</p>
TargetType	String	No	Image	<p>The type of the destination image. Valid values:</p> <ul style="list-style-type: none"> Image: After the migration task is completed, SMC generates a destination ECS image for the source server. ContainerImage: After the migration task is completed, SMC generates a destination Docker container image for the source server. Instance: After the migration task is completed, SMC migrates the source server to the destination instance. If you set this parameter, the <code>InstanceId</code> parameter is required.
ScheduledStartTime	String	No	2019-06-04T13:35:00Z	<p>The time when the migration task is performed. This parameter must meet the following requirements:</p> <ul style="list-style-type: none"> The time is specified in the ISO 8601 standard by using the YYYY-MM-DDThh:mm:ssZ format. For example, 2018-01-01T12:00:00Z indicates 20:00:00 on January 1, 2018 (UTC+8). The value must be within 30 days after the current time. <p>Note If you do not specify this parameter, you must manually start the migration task by calling the <code>StartReplicationJob</code> operation.</p>

Parameter	Type	Required	Example	Description
ValidTime	String	No	2019-06-04T13:35:00Z	<p>The time when the migration task expires. You can schedule the migration task to expire 7 to 90 days after the task is created.</p> <ul style="list-style-type: none"> The time is specified in the ISO 8601 standard by using the YYYY-MM-DDThh:mm:ssZ format. For example, 2018-01-01T12:00:00Z indicates 20:00:00 on January 1, 2018 (UTC+8). If this parameter is not specified, the migration task does not expire. When a migration task expires, the task enters the Expired state. SMC retains the migration task for seven days after the task expires. After the task is retained for seven days, SMC deletes the migration task. <p>By default, a migration task is valid for 30 days after it is created.</p>
ImageName	String	No	testAliCloudImageName	<p>The name of the destination image. The name must meet the following requirements:</p> <ul style="list-style-type: none"> It must be unique in the destination region. It must be 2 to 128 characters in length and can contain digits, colons (:), underscores (_), and hyphens (-). It must start with a letter and cannot start with <code>http://</code> or <code>https://</code>. <div style="background-color: #e1f5fe; padding: 5px; border: 1px solid #cfcfcf;"> <p> Note If you specify an image name that already exists in the destination region, the migration task ID is appended to the image name as a suffix. Example: ImageName_j-2zxxxxxxxxxxxxx.</p> </div>
InstanceId	String	No	i-bp1f1dvfto1sigz5****	The ID of the destination ECS instance.

Parameter	Type	Required	Example	Description
DataDisk.N.Size	Integer	No	100	<p>The size of a data disk on the destination ECS instance. Unit: GiB. Valid values: 20 to 32768.</p> <p>Note The size of a destination data disk must be larger than the size of data in the source data disk. For example, if the size of the source disk is 500 GiB but the actual used space is only 100 GiB, you only need to set this parameter to a value greater than 100 GiB.</p>
DataDisk.N.Index	Integer	No	1	<p>The index of data disk N on the destination ECS instance. Data disks on a destination ECS instance are arranged in a sequential order that starts from 1. Valid values: 1 to 16.</p> <p>Note To create a destination data disk for a source server, make sure that the source server has data disks.</p>
DataDisk.N.Part.N.Device	String	No	0_1	<p>The device ID of partition N on the destination data disk. The partitions in the destination data disk are arranged in the same sequential order as those in the corresponding source data disk.</p> <p>Note You must specify both the DataDisk.N.Part.N.Device and <code>DataDisk.N.Part.N.SizeBytes</code> parameters or leave both parameters empty.</p>

Parameter	Type	Required	Example	Description
DataDisk.N.Part.N.SizeBytes	Long	No	254803968	<p>The size of partition N on the destination data disk. Unit: bytes. The default value is equal to the partition size of the source data disk.</p> <div style="background-color: #e6f2ff; padding: 10px;"> <p> Note</p> <ul style="list-style-type: none"> The total size of all partitions in a destination data disk cannot exceed the size of the destination data disk. You must specify both the <code>DataDisk.N.Part.N.Device</code> and <code>DataDisk.N.Part.N.SizeBytes</code> parameters or leave both parameters empty. </div>
DataDisk.N.Part.N.Block	Boolean	No	true	<p>Specifies whether to enable block replication for partition N in a destination data disk. Valid values:</p> <ul style="list-style-type: none"> true false <p>Default value: true.</p>
Tag.N.Key	String	No	TestKey	<p>The key of a tag for the migration task. Valid values of N: 1 to 20.</p> <p>This parameter cannot be an empty string. The key can be up to 128 characters in length, and cannot start with <code>aliyun</code>, <code>acs:</code>, <code>http://</code>, or <code>https://</code>.</p>
Tag.N.Value	String	No	TestValue	<p>The value of a tag for the migration task. Valid values of N: 1 to 20.</p> <p>You can enter an empty string as the parameter value. The key can be up to 128 characters in length, and cannot start with <code>aliyun</code>, <code>acs:</code>, <code>http://</code>, or <code>https://</code>.</p>

Parameter	Type	Required	Example	Description
VpcId	String	No	vpc-bp1vwnn14rqpyiczj****	The ID of the VPC for which you have configured Express Connect or VPN Gateway.
VSwitchId	String	No	vsw-bp1ddbxdlrcbim46****	The ID of the VSwitch in the specified VPC. This parameter is required if you use a VPC to migrate data.
ReplicationParameters	String	No	{"bandwidth_limit":0,"compress_level":1,"checksum":true}	<p>A string of key-value pairs that are used to configure the replication driver. The parameters must be specified as key-value pairs in the JSON format. The keys are fixed for each type of replication driver. The JSON string can be up to 2,048 characters in length.</p> <p>A replication driver is a tool that is used to migrate a source server to an intermediate instance. The parameters vary based on the replication driver type. If you use an SMT driver, you can set the following parameters:</p> <ul style="list-style-type: none"> bandwidth_limit: the maximum bandwidth for data transmission. compress_level: the compression ratio of data to be transmitted. checksum: specifies whether to enable checksum verification. <p>For more information about replication drivers, see the response parameter ReplicationDriver in the <code>DescribeSourceServers</code> operation.</p>

Parameter	Type	Required	Example	Description
NetMode	Integer	No	0	<p>The network mode for data transmission. Valid values:</p> <ul style="list-style-type: none"> 0: Data is transmitted over the Internet. Make sure that the source server can access the Internet. 2: Data is transmitted over a VPC. You must specify the <code>VSwitchId</code> parameter. You can call an API operation to query the value of the <code>VpcId</code> parameter based on the <code>VSwitchId</code> parameter. Therefore, you do not need to specify the <code>VpcId</code> parameter. <p>Default value: 0.</p>
RunOnce	Boolean	No	true	<p>Specifies whether to disable incremental migration for the source server. Default value: true. Valid values:</p> <ul style="list-style-type: none"> true: disables incremental migration. Incremental data of the source server is not synchronized. false: enables incremental migration. You must specify the <code>Frequency</code> parameter. SMC synchronizes incremental data of the source server to Alibaba Cloud at the specified frequency. SMC can synchronize incremental data from the source server to Alibaba Cloud without interrupting your business. SMC generates a full data image for the source server when the migration task is running. <p>Note You can specify this parameter only when you create a migration task. The value cannot be modified after it is specified.</p>

Parameter	Type	Required	Example	Description
Frequency	Integer	No	12	<p>The interval at which SMC synchronizes incremental data to Alibaba Cloud. Unit: hours. Valid values: 1 to 168.</p> <p>This parameter is required if you set <code>RunOnce</code> to false.</p> <p>By default, this parameter is unspecified.</p>
MaxNumberOfImageToKeep	Integer	No	10	<p>The maximum number of images that can be retained during incremental migration. Valid values: 1 to 10.</p> <p>This parameter is required if you set <code>RunOnce</code> to false.</p> <p>By default, this parameter is unspecified.</p>
InstanceType	String	No	ecs.c6.large	<p>The type of the intermediate instance.</p> <p>You can call the DescribeInstanceTypes operation to query ECS instance types.</p> <ul style="list-style-type: none"> If you specify this parameter, SMC creates an intermediate instance of the specified type. If the specified instance type is unavailable, you cannot create the migration task. If you do not specify this parameter, SMC selects an available instance type in a specific order to create an intermediate instance. For more information, see SMC FAQ.

Parameter	Type	Required	Example	Description
SystemDiskPart.N.Device	String	No	0_1	<p>The device ID of partition N on the destination system disk. The partitions in the destination system disk are arranged in the same sequential order as those in the corresponding source system disk.</p> <p>Note You must specify both the SystemDiskPart.N.Device and SystemDiskPart.N.SizeBytes parameters or leave both parameters empty.</p>
SystemDiskPart.N.SizeBytes	Long	No	254803968	<p>The size of partition N in the destination system disk. Unit: bytes. The default value is equal to the partition size of the source system disk.</p> <p>Note</p> <ul style="list-style-type: none"> The total size of all partitions in the destination system disk cannot exceed the size of the destination system disk. You must specify both the SystemDiskPart.N.Device and SystemDiskPart.N.SizeBytes parameters or leave both parameters empty.
SystemDiskPart.N.Block	Boolean	No	true	<p>Specifies whether to enable block replication for partition N in the destination system disk. Valid values:</p> <ul style="list-style-type: none"> true false <p>Default value: true.</p>

Parameter	Type	Required	Example	Description
InstanceRamRole	String	No	SMCAAdmin	The RAM role that is attached to the intermediate instance.
ContainerNamespace	String	No	testNamespace	The namespace of the destination Docker container image. For more information, see Container Registry .
ContainerRepository	String	No	testRepository	The repository that stores the destination Docker container image. For more information, see Container Registry .
ContainerTag	String	No	CentOS:v1	The tag of the destination Docker container image. For more information, see Container Registry .

Response parameters

Parameter	Type	Example	Description
JobId	String	j-bp17bclvg344jlyt****	The ID of the migration task.
RequestId	String	C8B26B44-0189-443E-9816-D951F59623A9	The ID of the request.

Examples

Sample requests

```
http(s)://smc.aliyuncs.com/? Action=CreateReplicationJob
&RegionId=cn-hangzhou
&SourceId=s-bp1e2fsl57knvuug****
&SystemDiskSize=80
&<Common request parameters>
```

Sample success responses

XML format

```
<CreateReplicationJobResponse>
  <JobId>j-bp17bclvg344jlyt****</JobId>
  <RequestId>C8B26B44-0189-443E-9816-D951F59623A9</RequestId>
</CreateReplicationJobResponse>
```

JSON format

```
{
  "JobId": "j-bp17bclvg344jlyt****",
  "RequestId": "C8B26B44-0189-443E-9816-D951F59623A9"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	SourceServerState.Invalid	The specified source server status is invalid.	The error message returned because the operation is not supported while the source server is in the current status.
400	ReplicationJobDataDiskIndex.Invalid	The specified replication job contains data disk index not found in source server.	The error message returned because the specified migration task contains data disk indexes that are not found in the source server.
400	VSwitchIdVpcId.Mismatch	The specified VSwitchId and VpcId does not match.	The error message returned because the specified VSwitchId and VpcId do not match.
400	InvalidSecurityGroupId.IncorrectNetworkType	The network type of the specified security group does not support this action.	The error message returned because the operation is not supported by the network type of the security group.
400	InvalidSecurityGroupId.VPCMismatch	The specified security group and the specified virtual switch are not in the same VPC.	The error message returned because the specified security group and VSwitch are not connected to the same VPC.
400	QuotaExceeded.ReplicationJob	The maximum number of replication jobs is exceeded. Please submit a ticket to raise the quota.	The error message returned because the maximum number of migration tasks has been exceeded. Submit a ticket to raise the quota.

HttpCode	Error code	Error message	Description
400	ReplicationJobName.Duplicate	The specified replication job name already exists.	The error message returned because the specified migration task name already exists. Modify the migration task name.
500	InternalServerError	An error occurred while processing your request. Please try again. If the problem still exists, please submit a ticket.	The error message returned because an internal error has occurred. Try again later. If the error persists, submit a ticket.

For a list of error codes, visit the [API Error Center](#).

7.2. DeleteReplicationJob

Deletes a migration task.

Description

- Deleted migration tasks cannot be restored.
- After a migration task is deleted, the associated resources such as the intermediate instance are automatically released.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteReplicationJob	The operation that you want to perform. Set this parameter to DeleteReplicationJob.
JobId	String	Yes	j-bp17m1vi6x21qh-qk****	The ID of the migration task.

Response parameters

Parameter	Type	Example	Description
RequestId	String	473469C7-AA6F-4DC5-B3DB-A3DCODE3C83E	The ID of the request.

Examples

Sample requests

```
http(s)://smc.aliyuncs.com/? Action=DeleteReplicationJob
&JobId=j-bp17m1vi6x21qhqk****
&<Common request parameters>
```

Sample success responses

XML format

```
<DeleteReplicationJobResponse>
  <RequestId>473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E</RequestId>
</DeleteReplicationJobResponse>
```

JSON format

```
{
  "RequestId":"473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	ReplicationJob.InvalidStatus	The specified replication job status is invalid.	The error message returned because the operation is not supported while the migration task is in the current status.
500	InternalServerError	An error occurred while processing your request. Please try again. If the problem still exists, please submit a ticket.	The error message returned because an internal error has occurred. Try again later. If the error persists, submit a ticket.

For a list of error codes, visit the [API Error Center](#).

7.3. DescribeReplicationJobs

Queries the details of one or more migration tasks.

Description

- You can specify multiple request parameters. The parameters that you specify have logical AND relations. If you leave a parameter empty, this parameter is not included in the conditions to filter query results.
- You can migrate source servers to Docker container images. SMC allows you to migrate containerized applications to Container Registry at low costs. For more information, see [Container Registry](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeReplicationJobs	The operation that you want to perform. Set the value to DescribeReplicationJobs.
SourceId.N	RepeatList	No	s-bp1e2fsl57knvuu g****	The ID of a source server. Maximum value of N: 50.
JobId.N	RepeatList	No	j-bp19vlwm0tyigb mj****	The ID of a migration task. Maximum value of N: 50.
Name	String	No	testMigrationTaskName	The name of a migration task.
RegionId	String	No	cn-hangzhou	The ID of the destination Alibaba Cloud region. For example, if you want to migrate the source server to Shanghai, set the value to <code>cn-shanghai</code> . You can call DescribeRegions to query the latest list of Alibaba Cloud regions.
Status	String	No	Ready	The main status of the migration task. Valid values: <ul style="list-style-type: none"> Ready Running Stopped InError Finished Waiting Expired Deleting

Parameter	Type	Required	Example	Description
BusinessStatus	String	No	Preparing	The business status of the migration task. Valid values: <ul style="list-style-type: none"> • Preparing • Syncing • Processing • Cleaning
PageNumber	Integer	No	1	The number of the page to return. Page numbers start from 1. Default value: 1.
PageSize	Integer	No	10	The number of entries returned on each page. Maximum value: 50. Default value: 10.

Response parameters

Parameter	Type	Example	Description
PageNumber	Integer	1	The number of the page returned.
PageSize	Integer	10	The number of entries returned on each page.
ReplicationJobs	Array		A list of migration tasks.
ReplicationJob			
BusinessStatus	String	Preparing	The business status of the migration task.
ContainerName space	String	testNamespace	The namespace of the Docker container image.
ContainerRepository	String	testRepository	The repository that stored a Docker container image.
ContainerTag	String	CentOS:v1	The tag of a Docker container image.

Parameter	Type	Example	Description
CreationTime	String	2014-07-24T13:00:52Z	The time when the migration task was created.
DataDisks	Array		A list of data disks on the destination ECS instance.
DataDisk			
Index	Integer	1	The index number of the data disk.
Parts	Array		A list of partitions in the data disk.
Part			
Block	Boolean	true	Indicates whether block replication was enabled for a partition in the destination data disk.
Device	String	0_1	The device ID of the data disk partition.
SizeBytes	Long	21474836480	The size of a partition in the destination data disk. Unit: bytes.
Size	Integer	40	The size of the data disk. Unit: GiB.
Description	String	This is my migration task.	The description of the migration task.
EndTime	String	2019-06-04T16:00:52Z	The time when a migration task was completed.
ErrorCode	String	InternalError	The error code returned during a migration task.
Frequency	Integer	15	The interval at which the incremental migration task runs. Unit: hours. Valid values: 1 to 168.
ImageId	String	m-o6w3gy99qf89rkga***	The ID of the destination image.

Parameter	Type	Example	Description
ImageName	String	testAliCloudImageName	The name of the destination image.
InstanceId	String	i-bp1ff25rvnvl6kr***	The ID of the destination ECS instance.
InstanceRamRole	String	SMCAAdmin	The RAM role that was attached to the intermediate instance.
InstanceType	String	ecs.sn1ne.large	The type of the intermediate instance.
JobId	String	j-bp19vllwm0tyigbmj***	The ID of the migration task.
LaunchTemplateId	String	lt-launchtemplateid	The ID of the launch template.
LaunchTemplateVersion	String	1	One or more launch template versions.
MaxNumberOfImageToKeep	Integer	8	The maximum number of images retained for the incremental migration task. Valid values: 1 to 10.
Name	String	testMigrationTaskName	The name of the migration task.
NetMode	Integer	0	The network mode used for data transmission.
Progress	Float	55.45	The progress of the migration task.
RegionId	String	cn-hangzhou	The ID of the destination Alibaba Cloud region.
ReplicationJobRuns	Array		A list of the logs of migration tasks.
ReplicationJobRun			
EndTime	String	2019-10-04T13:35:00Z	The time when a migration was complete.

Parameter	Type	Example	Description
ImageId	String	m- o6w3gy99qf89rkga* ***	The ID of the destination image.
StartTime	String	2019-10- 01T13:35:00Z	The time when a migration task was started.
Type	String	Schedule	The method used to run the migration task. Valid values: <ul style="list-style-type: none"> Manual: A migration task is manually started. Schedule: A migration task is started at a scheduled time or at a specified interval.
ReplicationParameters	String	BandWidthLimit:0	A string of key-value pairs to configure a replication driver.
RunOnce	Boolean	true	Indicates whether incremental migration was disabled for a source server. Valid values: <ul style="list-style-type: none"> true: disables incremental migration. Incremental data of a source server is not synchronized. false: enables incremental migration. SMC synchronizes incremental data to Alibaba Cloud at a specified Frequency .
ScheduledStartTime	String	2019-06- 04T13:35:00Z	The time when the migration task was performed.
SourceId	String	s- bp1e2fsl57knvuug** **	The ID of the source server.
StartTime	String	2019-06- 04T14:40:52Z	The time when the migration task was started.
Status	String	Running	The main status of the migration task.
StatusInfo	String	statusinfo	The migration status information.
SystemDiskParts	Array		The information of system disk partitions.
SystemDiskPart			

Parameter	Type	Example	Description
Block	Boolean	true	Indicates whether block replication was enabled for a partition in the destination system disk.
Device	String	0_1	The device ID of the system disk partition.
SizeBytes	Long	254803968	The size of a partition in the destination system disk. Unit: bytes.
SystemDiskSize	Integer	40	The system disk size of the destination ECS instance.
TargetType	String	image	The type of the destination image.
TransitionInstanceid	String	i-bp1ff25rzvnu6kr*** *	The ID of the intermediate instance.
VSwitchId	String	vsw-bp1ddbxdlrcbim46* ***	The ID of the VSwitch in the specified VPC.
ValidTime	String	2019-06-08T14:40:52Z	The time when the migration task expired.
VpcId	String	vpc-bp1vwnn14rpyiczj* ***	The ID of a VPC for which you have configured Express Connect or VPN Gateway.
RequestId	String	6E1187E8-843A-4850-B97E-2F17F00D48F7	The ID of the request.
TotalCount	Integer	5	The total number of migration tasks.

Examples

Sample requests

```
http(s)://smc.aliyuncs.com/? Action=DescribeReplicationJobs
&RegionId=cn-hangzhou
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeReplicationJobsResponse>
  <TotalCount>1</TotalCount>
  <ReplicationJobs>
    <ReplicationJob>
      <Status>Running</Status>
      <Progress>75</Progress>
      <TransitionInstanceId>i-bp1ff25rzvnul6kr****</TransitionInstanceId>
      <DataDisks>
        <DataDisk>
          <Parts>
            <Part>
              <Device>2_0</Device>
              <Block>>true</Block>
              <SizeBytes>5334102016</SizeBytes>
            </Part>
          </Parts>
          <Size>20</Size>
          <Index>2</Index>
        </DataDisk>
      </DataDisks>
      <SystemDiskSize>20</SystemDiskSize>
      <NetMode>0</NetMode>
      <SourceId>s-bp1e2fsl57knvuug****</SourceId>
      <SystemDiskParts>
        <SystemDiskPart>
          <Device>0_0</Device>
          <Block>>true</Block>
          <SizeBytes>21466120192</SizeBytes>
        </SystemDiskPart>
      </SystemDiskParts>
      <StartTime>2020-05-14T12:01:24Z</StartTime>
      <BusinessStatus>Processing</BusinessStatus>
      <Name>testMigrationTaskName</Name>
      <ValidTime>2020-06-13T12:01:24Z</ValidTime>
      <RunOnce>true</RunOnce>
      <TargetType>Image</TargetType>
      <CreationTime>2020-05-14T12:01:24Z</CreationTime>
      <RegionId>cn-hangzhou</RegionId>
      <ErrorCode></ErrorCode>
```

```
<JobId>j-bp19vlwm0tyigbmj****</JobId>
</ReplicationJob>
</ReplicationJobs>
<RequestId>6E1187E8-843A-4850-B97E-2F17F00D48F7</RequestId>
<PageSize>10</PageSize>
<PageNumber>1</PageNumber>
</DescribeReplicationJobsResponse>
```

JSON format

```
{
  "TotalCount": 1,
  "ReplicationJobs": {
    "ReplicationJob": [
      {
        "Status": "Running",
        "Progress": 75.0,
        "TransitionInstanceId": "i-bp1ff25rzvnu6kr****",
        "DataDisks": {
          "DataDisk": [
            {
              "Parts": {
                "Part": [
                  {
                    "Device": "2_0",
                    "Block": true,
                    "SizeBytes": 5334102016
                  }
                ]
              },
              "Size": 20,
              "Index": 2
            }
          ],
          "SystemDiskSize": 20,
          "NetMode": 0,
          "SourceId": "s-bp1e2fsl57knvuug****",
          "SystemDiskParts": {
            "SystemDiskPart": [
              {
```

```
    "Device": "0_0",
    "Block": true,
    "SizeBytes": 21466120192
  }
]
},
"StartTime": "2020-05-14T12:01:24Z",
"BusinessStatus": "Processing",
"Name": "testMigrationTaskName",
"ValidTime": "2020-06-13T12:01:24Z",
"RunOnce": true,
"TargetType": "Image",
"CreationTime": "2020-05-14T12:01:24Z",
"RegionId": "cn-hangzhou",
"ErrorCode": "",
"JobId": "j-bp19vlwm0tyigbmj*****"
}
]
},
"RequestId": "6E1187E8-843A-4850-B97E-2F17F00D48F7",
"PageSize": 10,
"PageNumber": 1
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

7.4. ModifyReplicationJobAttribute

Modifies the parameters of a migration task.

Description

Before you modify the parameters of a migration task, note the following information:

- The `Name` and `Description` parameters can be modified during the lifecycle of the migration task.
- The `Frequency` and `MaxNumberOfImageToKeep` parameters can be modified only before the migration task is performed or when the migration task is in the `Waiting` state.
- Other parameters can be modified only before the migration task is performed.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyReplicationJobAttribute	The operation that you want to perform. Set the value to ModifyReplicationJobAttribute.
JobId	String	Yes	j-bp19vlwm0tyigbmj****	The ID of the migration task.
Name	String	No	testMigrationTaskName	The name of the migration task. The name must meet the following requirements: <ul style="list-style-type: none"> • It must be unique. • It must be 2 to 128 characters in length and can contain digits, colons (:), underscores (_), and hyphens (-). It must start with a letter and cannot start with <code>http://</code> or <code>https://</code>.
Description	String	No	This_is_my_migration_task	The description of the migration task. The description must be 2 to 128 characters in length and can contain digits, colons (:), underscores (_), and hyphens (-). It must start with a letter and cannot start with <code>http://</code> or <code>https://</code> .

Parameter	Type	Required	Example	Description
TargetType	String	No	Image	<p>The type of the destination image. You can modify the value only before the migration task starts. Valid values:</p> <ul style="list-style-type: none"> Image: After the migration task is completed, Server Migration Center (SMC) generates a destination Elastic Compute Service (ECS) image for the source server. You can use the image to create an ECS instance. ContainerImage: After the migration task is completed, SMC generates a container image for the source server. You can use the container image in Container Registry. <div style="background-color: #e6f2ff; padding: 10px; border: 1px solid #d9e1f2;"> <p>Note</p> <ul style="list-style-type: none"> The value of this parameter is case-insensitive. You can modify only the type of the destination image that is created for a Linux server. Windows servers cannot be migrated to Container Registry. Therefore, when the migration source is a Windows server, this parameter can only be set to <code>Image</code>. </div>
ScheduledStartTime	String	No	2019-06-04T13:35:00Z	<p>The time when the migration task is performed. SMC starts the migration task at the specified time.</p> <p>Specify the time in the ISO 8601 standard in the YYYY-MM-DDThh:mm:ssZ format. The time must be in UTC. For example, 2018-01-01T12:00:00Z indicates 20:00:00 on January 1, 2018 (UTC+8).</p> <div style="background-color: #e6f2ff; padding: 10px; border: 1px solid #d9e1f2;"> <p>Note If the parameter is not specified, SMC cannot start the migration task. You must call the <code>StartReplicationJob</code> operation to start the task.</p> </div>

Parameter	Type	Required	Example	Description
ImageName	String	No	testAliCloudImageName	<p>The name of the destination image. The name must meet the following requirements:</p> <ul style="list-style-type: none"> It must be unique in an Alibaba Cloud region. It must be 2 to 128 characters in length and can contain digits, colons (:), underscores (_), and hyphens (-). It must start with a letter and cannot start with <code>http://</code> or <code>https://</code>. <p>Note If the specified image name already exists in the region where the migration task is running, the migration task ID is added to the image name as a suffix. Example: ImageName-<code>JobId</code>.</p>
InstanceId	String	No	i-bp1f1dvfto1sigz5****	The ID of the destination ECS instance.
SystemDiskSize	Integer	No	50	<p>The system disk size of the destination ECS instance. Unit: GiB. Valid values: 20 to 500.</p> <p>Note The value must be greater than the used space of the system disk on the source server. For example, if the total size of the source disk is 500 GiB and the used space is 100 GiB, the value of this parameter must be greater than 100 GiB.</p>

Parameter	Type	Required	Example	Description
SystemDiskPart.N .Device	String	No	0_1	<p>The ID of partition N in the destination system disk.</p> <p>Note Each destination system disk corresponds to a source system disk. The partitions in a destination system disk are arranged in the same sequential order as those in the corresponding source system disk.</p>
SystemDiskPart.N .SizeBytes	Long	No	254803968	<p>The size of partition N in the destination system disk. Unit: bytes. The default value is equal to the partition size of the source system disk.</p> <p>Note The total size of the partitions in the destination system disk cannot exceed the size of the destination system disk.</p>
SystemDiskPart.N .Block	Boolean	No	true	<p>Specifies whether to enable block replication for partition N in the destination system disk. Valid values:</p> <ul style="list-style-type: none"> true false
DataDisk.N.Size	Integer	No	100	<p>The data disk size of the destination ECS instance. Unit: GiB. Valid values: 20 to 32768.</p> <p>Note The size of a destination data disk must be greater than the size of data in the source data disk. For example, if a source data disk has 500 GiB of storage space and 100 GiB of data, you must set this parameter to a value greater than 100 GiB.</p>

Parameter	Type	Required	Example	Description
DataDisk.N.Index	Integer	No	1	<p>The index of data disk N on the destination ECS instance. Valid values: 1 to 16.</p> <p>The data disks on a destination ECS instance are arranged in a sequential order that starts from 1.</p> <p>Note To create a destination data disk for a source server, make sure that this source server has data disks.</p>
DataDisk.N.Part.N.Device	String	No	0_1	<p>The ID of partition N in the destination data disk.</p> <p>Note Each destination data disk corresponds to a source data disk. The partitions in a destination data disk are arranged in the same sequential order as those in the corresponding source data disk.</p>
DataDisk.N.Part.N.SizeBytes	Long	No	254803968	<p>The size of partition N in the destination data disk. Unit: bytes. The default value is equal to the partition size of the source data disk.</p> <p>Note The total size of the partitions in the destination data disk cannot exceed the size of the destination data disk.</p>
DataDisk.N.Part.N.Block	Boolean	No	true	<p>Specifies whether to enable block replication for partition N in the destination data disk. Valid values:</p> <ul style="list-style-type: none"> true false

Parameter	Type	Required	Example	Description
Frequency	Integer	No	10	The interval at which an incremental migration task runs. Unit: hours. Valid values: 1 to 168. This parameter is required if you set RunOnce to false.
MaxNumberOfImageToKeep	Integer	No	5	The maximum number of images that are retained for an incremental migration task. Valid values: 1 to 10. This parameter is required if you set RunOnce to false.
InstanceType	String	No	ecs.c5.large	The type of the intermediate instance. You can call the DescribeInstanceTypes operation to query the instance types that are provided by ECS. <ul style="list-style-type: none"> If you specify this parameter, SMC creates an intermediate instance of the specified type. If the specified instance type is unavailable, you cannot create the migration task. If you do not specify this parameter, SMC selects an available instance type in a specific order to create an intermediate instance. For more information about available intermediate instance types, see SMC FAQ.
InstanceRamRole	String	No	SMCAAdmin	The RAM role that is attached to an intermediate instance.
ContainerNamespace	String	No	testNamespace	The namespace of the destination Docker container image. For more information about Docker container images, see Container Registry .
ContainerRepository	String	No	testRepository	The repository that stores the destination Docker container image. For more information about Docker container images, see Container Registry .

Parameter	Type	Required	Example	Description
ContainerTag	String	No	CentOS:v1	The tag of the destination Docker container image. For more information about Docker container images, see Container Registry .
ValidTime	String	No	2019-06-04T13:35:00Z	<p>The time when the migration task expires. You can schedule the migration task to expire 7 to 90 days after the task is created.</p> <ul style="list-style-type: none"> This parameter can be modified only when the migration task is in the Ready, Running, Stopped, InError, or Waiting state. Specify the time in the ISO 8601 standard in the <code>YYYY-MM-DDThh:mm:ssZ</code> format. The time must be in UTC. For example, 2018-01-01T12:00:00Z indicates 20:00:00 on January 1, 2018 (UTC+8). If this parameter is not specified, the migration task does not expire. When a migration task expires, the task enters the Expired state. SMC retains the migration task for seven days after the task expires. After the retention period, SMC deletes the migration task. <p>By default, a migration task is valid within 30 days after it is created.</p>

Response parameters

Parameter	Type	Example	Description
RequestId	String	1C488B66-B819-4D14-8711-C4EAAA13AC01	The ID of the request.

Examples

Sample requests

```
http(s)://smc.aliyuncs.com/? Action=ModifyReplicationJobAttribute
&JobId=j-bp19vlwm0tyigbmj****
&<Common request parameters>
```

Sample success responses

XML format

```
<DeleteReplicationJobResponse>
  <RequestId>1C488B66-B819-4D14-8711-C4EAAA13AC01</RequestId>
</DeleteReplicationJobResponse>
```

JSON format

```
{
  "RequestId": "1C488B66-B819-4D14-8711-C4EAAA13AC01"
}
```

Error code

HttpCode	Error code	Error message	Description
400	DataDisk.DuplicateIndex	The source server data disk cannot contain the same index.	The error message returned because the data disks of the migration source have duplicate indexes.
400	ReplicationJob.InvalidStatus	The specified replication job status is invalid.	The error message returned because the operation is not supported while the migration task is in the current status.
400	ReplicationJobDataDiskIndex.Invalid	The specified replication job contains data disk index not found in source server.	The error message returned because the specified migration task contains data disk indexes that are not found in the source server.
400	ReplicationJobName.Duplicate	The specified replication job name already exists.	The error message returned because the specified migration task name already exists. Modify the migration task name.
500	InternalServerError	An error occurred while processing your request. Please try again. If the problem still exists, please submit a ticket.	The error message returned because an internal error has occurred. Try again later. If the error persists, submit a ticket.

For a list of error codes, visit the [API Error Center](#).

7.5. StartReplicationJob

Starts a migration task.

Description

This operation can be used to start only migration tasks that are in the **Ready**, **Stopped**, or **InError** state.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	StartReplicationJob	The operation that you want to perform. Set this parameter to StartReplicationJob.
JobId	String	Yes	j-bw526m1vi6x21q****	The ID of the migration task.

Response parameters

Parameter	Type	Example	Description
RequestId	String	473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E	The ID of the request.

Examples

Sample requests

```
http(s)://smc.aliyuncs.com/? Action=StartReplicationJob
&JobId=j-bw526m1vi6x21q****
&<Common request parameters>
```

Sample success responses

XML format

```
<StartReplicationJobResponse>
  <RequestId>473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E</RequestId>
</StartReplicationJobResponse>
```

JSON format

```
{
  "RequestId":"473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	ReplicationJob.InvalidStatus	The specified replication job status is invalid.	The error message returned because the operation is not supported while the migration task is in the current status.
400	SourceServerState.Invalid	The specified source server status is invalid.	The error message returned because the operation is not supported while the source server is in the current status.
500	InternalServerError	An error occurred while processing your request. Please try again. If the problem still exists, please submit a ticket.	The error message returned because an internal error has occurred. Try again later. If the error persists, submit a ticket.

For a list of error codes, visit the [API Error Center](#).

7.6. StopReplicationJob

Starts a migration task.

Description

This operation can be used to stop only migration tasks that are in the Running and Syncing states.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	StopReplicationJob	The operation that you want to perform. Set this parameter to StopReplicationJob.

Parameter	Type	Required	Example	Description
JobId	String	Yes	j-bw526m1vi6x21qh****	The ID of the migration task.

Response parameters

Parameter	Type	Example	Description
RequestId	String	473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E	The ID of the request.

Examples

Sample requests

```
http(s)://smc.aliyuncs.com/? Action=StopReplicationJob
&JobId=j-bw526m1vi6x21qh****
&<Common request parameters>
```

Sample success responses

XML format

```
<StopReplicationJobResponse>
  <RequestId>473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E</RequestId>
</StopReplicationJobResponse>
```

JSON format

```
{
  "RequestId": "473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	ReplicationJob.InvalidStatus	The specified replication job status is invalid.	The error message returned because the operation is not supported while the migration task is in the current status.

HttpCode	Error code	Error message	Description
500	InternalServerError	An error occurred while processing your request. Please try again. If the problem still exists, please submit a ticket.	The error message returned because an internal error has occurred. Try again later. If the error persists, submit a ticket.

For a list of error codes, visit the [API Error Center](#).

8.Tag

8.1. TagResources

Creates and attaches tags to a list of Server Migration Center (SMC) resources. The SMC resources include migration sources and tasks.

Description

A maximum of 20 tags can be attached to each SMC resource.

Before you attach tags to an SMC resource, Alibaba Cloud checks the number of existing tags of the resource. If the maximum number is reached, an error message is returned.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	TagResources	The operation that you want to perform. Set the value to TagResources.
ResourceId.N	RepeatList	Yes	s-bw526m1vi6x20c6g****	The ID of the Nth SMC resource. SMC resources include migration sources and tasks. Valid values of N: 1 to 50.
ResourceType	String	Yes	sourceserver	The type of the SMC resource. Valid values: <ul style="list-style-type: none"> sourceserver: migration source replicationjob: migration task
Tag.N.Key	String	No	TestKey	The key of tag N that is attached to the SMC resource. Valid values of N: 1 to 20. This parameter cannot be an empty string. It can be up to 128 characters in length and cannot start with acs: or aliyun. It cannot contain http:// or https://.

Parameter	Type	Required	Example	Description
Tag.N.Value	String	No	TestValue	The value of tag N that is attached to the SMC resource. Valid values of N: 1 to 20. This parameter cannot be an empty string. The tag value can be up to 128 characters in length and cannot contain http:// or https://.

Response parameters

Parameter	Type	Example	Description
RequestId	String	3E8B9ABB-289A-44E6-942D-8AA9E4937208	The ID of the request.

Examples

Sample requests

```
https://smc.aliyuncs.com/?Action=TagResoruces
&RegionId=cn-hangzhou
&ResourceId.1=s-bw526m1vi6x20c6g****
&ResourceType=sourceserver
&Tag.1.Key=TestKey
&<Common request parameters>
```

Sample success responses

XML format

```
<TagResourcesResponse>
  <RequestId>3E8B9ABB-289A-44E6-942D-8AA9E4937208</RequestId>
</TagResourcesResponse>
```

JSON format

```
{
  "RequestId": "3E8B9ABB-289A-44E6-942D-8AA9E4937208"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	NumberExceed.Tags	The maximum number of the Tag parameters cannot exceed 20.	The error message returned because the maximum number of tags has been reached. Maximum value: 20.
400	MissingParameter.ResourceType	You must specify ResourceType.	The error message returned because the ResourceType parameter is not specified.
400	InvalidResourceType.NotFound	The specified ResourceType does not exist.	The error message returned because the specified value of the ResourceType parameter does not exist.
400	NumberExceed.ResourceIds	The maximum number of ResourceId parameters cannot exceed 50.	The error message returned because the maximum number of resource IDs has been reached. Maximum value: 50.
400	Duplicate.ResourceId	The ResourceId contains duplicate values.	The error message returned because the specified value of the ResourceId parameter already exists.
400	InvalidResourceId.NotFound	The specified ResourceIds do not exist.	The error message returned because the specified value of the ResourceId parameter does not exist.

For a list of error codes, visit the [API Error Center](#).

8.2. ListTagResources

Queries the tags that are attached to one or more Server Migration Center (SMC) resources. SMC resources include migration sources and tasks.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListTagResources	The operation that you want to perform. Set the value to ListTagResources.

Parameter	Type	Required	Example	Description
ResourceType	String	Yes	sourceserver	The type of the SMC resource. Valid values: <ul style="list-style-type: none"> sourceserver: migration source replicationjob: migration task
ResourceId.N	RepeatList	No	s-bp1e2fsl57knvuu g****	The ID of SMC resource N. SMC resources include migration sources and tasks. Valid values of N: 1 to 50.
Tag.N.Key	String	No	TestKey	The key of tag N that is attached to the SMC resource. A tag key must be 1 to 128 characters in length. Valid values of N: 1 to 20. Tag.N is used for exact match of SMC resources to which tags are attached. Tag N consists of one key-value pair. <ul style="list-style-type: none"> Tag keys and values are case-sensitive. If you specify only Tag.N.Key, all resources that are attached to this tag key are returned. If you specify only Tag.N.Value, the error message InvalidParameter.TagValue is returned. If you specify multiple tag key-value pairs at the same time, only SMC resources that match all tag key-value pairs are returned.
Tag.N.Value	String	No	TestValue	The value of the tag N of the resource. This value can be 1 to 128 characters in length. Valid values of N: 1 to 20.
NextToken	String	No	caeba0bbb2be03 f84eb48b699f0a4 883	The token for the next query.

Response parameters

Parameter	Type	Example	Description
-----------	------	---------	-------------

Parameter	Type	Example	Description
NextToken	String	caeba0bbb2be03f84eb48b699f0a4883	The token for the next query. The value of the NextToken parameter is null. All information is displayed on the page.
RequestId	String	17743161-66F3-4E7F-B8AE-845FB28B928F	The ID of the request.
TagResources	Array		A collection of SMC resources and tags. The collection includes the resource IDs, types, tag keys, and tag values.
TagResource			
ResourceId	String	s-bp1e2fsl57knvuug**	The ID of the resource.
ResourceType	String	ALIYUN::SMC::SOURCE SERVER	The type of the resource.
TagKey	String	TestKey	The tag key of the resource.
TagValue	String	TestValue	The tag value of the resource.

Examples

Sample requests

```
http(s)://smc.aliyuncs.com/? Action=ListTagResources
&ResourceType=sourceserver
&<Common request parameters>
```

Sample success responses

XML format

```
<ListTagResourcesResponse>
  <TagResources>
    <TagResource>
      <ResourceType>ALIYUN::SMC::SOURCESEVER</ResourceType>
      <TagValue>TestValue</TagValue>
      <ResourceId>s-bp1e2fsl57knvuug****</ResourceId>
      <TagKey>TestKey</TagKey>
    </TagResource>
    <TagResource>
      <ResourceType>ALIYUN::SMC::SOURCESEVER</ResourceType>
      <TagValue>TestValue</TagValue>
      <ResourceId>s-bp133rsym9xiek5k****</ResourceId>
      <TagKey>TestKey</TagKey>
    </TagResource>
  </TagResources>
  <NextToken></NextToken>
  <RequestId>17743161-66F3-4E7F-B8AE-845FB28B928F</RequestId>
</ListTagResourcesResponse>
```

JSON format

```

{
  "TagResources": {
    "TagResource": [
      {
        "ResourceType": "ALIYUN::SMC::SOURCESEVER",
        "TagValue": "TestValue",
        "ResourceId": "s-bp1e2fsl57knvuug****",
        "TagKey": "TestKey"
      },
      {
        "ResourceType": "ALIYUN::SMC::SOURCESEVER",
        "TagValue": "TestValue",
        "ResourceId": "s-bp133rsym9xiek5k****",
        "TagKey": "TestKey"
      }
    ]
  },
  "NextToken": "",
  "RequestId": "17743161-66F3-4E7F-B8AE-845FB28B928F"
}

```

Error codes

HttpCode	Error code	Error message	Description
400	NumberExceed.Tags	The maximum number of the Tag parameters cannot exceed 20.	The error message returned because the maximum number of tags has been reached. Maximum value: 20.
400	MissingParameter.ResourceType	You must specify ResourceType.	The error message returned because the ResourceType parameter is not specified.
400	InvalidResourceType.NotFound	The specified ResourceType does not exist.	The error message returned because the specified value of the ResourceType parameter does not exist.
400	NumberExceed.ResourceIds	The maximum number of ResourceId parameters cannot exceed 50.	The error message returned because the maximum number of resource IDs has been reached. Maximum value: 50.

HttpCode	Error code	Error message	Description
400	Duplicate.ResourceId	The ResourceId contains duplicate values.	The error message returned because the specified value of the ResourceId parameter already exists.
400	InvalidResourceId.NotFound	The specified ResourceIds do not exist.	The error message returned because the specified value of the ResourceId parameter does not exist.

For a list of error codes, visit the [API Error Center](#).

8.3. UntagResources

Removes tags from Server Migration Center (SMC) resources. The SMC resources include migration sources and tasks.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UntagResources	The operation that you want to perform. Set the value to UntagResources.
ResourceId.N	RepeatList	Yes	s-bw526m1vi6x20c6g****	The ID of the Nth SMC resource. SMC resources include migration sources and tasks. Valid values of N: 1 to 50.
ResourceType	String	Yes	sourceserver	The type of the SMC resource. Valid values: <ul style="list-style-type: none"> sourceserver: migration source replicationjob: migration task
TagKey.N	RepeatList	No	TestKey	The key of tag N that is attached to the SMC resource. Tag keys are case-sensitive. Valid values of N: 1 to 20.

Parameter	Type	Required	Example	Description
All	Boolean	No	false	<p>Specifies whether to remove all tags from the SMC resource. This parameter is valid only when the <code>TagKey.N</code> parameter is not specified in the request. Valid values:</p> <ul style="list-style-type: none"> • true: All the tags that are attached to the specified SMC resource are removed. If no tags are attached to the specified SMC resource, no operation is performed. • false: No tags that are attached to the specified SMC resource are removed. <p>Default value: false.</p>

Response parameters

Parameter	Type	Example	Description
RequestId	String	2D69A58F-345C-4FDE-88E4-BF5189484043	The ID of the request.

Examples

Sample requests

```

http(s)://smc.aliyuncs.com/? Action=UntagResources
&ResourceId.1=s-bw526m1vi6x20c6g****
&ResourceType=sourceserver
&TagKey.1=TestKey
&<Common request parameters>

```

Sample success responses

XML format

```

<UntagResourcesResponse>
  <RequestId>2D69A58F-345C-4FDE-88E4-BF5189484043</RequestId>
</UntagResourcesResponse>

```

JSON format

```
{
  "RequestId": "2D69A58F-345C-4FDE-88E4-BF5189484043"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	NumberExceed.Tags	The maximum number of the Tag parameters cannot exceed 20.	The error message returned because the maximum number of tags has been reached. Maximum value: 20.
400	MissingParameter.ResourceType	You must specify ResourceType.	The error message returned because the ResourceType parameter is not specified.
400	InvalidResourceType.NotFound	The specified ResourceType does not exist.	The error message returned because the specified value of the ResourceType parameter does not exist.
400	NumberExceed.ResourceIds	The maximum number of ResourceId parameters cannot exceed 50.	The error message returned because the maximum number of resource IDs has been reached. Maximum value: 50.
400	Duplicate.ResourceId	The ResourceId contains duplicate values.	The error message returned because the specified value of the ResourceId parameter already exists.
400	InvalidResourceId.NotFound	The specified ResourceIds do not exist.	The error message returned because the specified value of the ResourceId parameter does not exist.

For a list of error codes, visit the [API Error Center](#).