

Alibaba Cloud

Apsara File Storage NAS 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 .
Courier font	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.Introduction

This topic provides the API reference of Apsara File Storage NAS. If you are familiar with network protocols and one or more programming languages, we recommend that you use API operations to manage NAS.

Limits

You have limitations when you use NAS resources and features. For more information, see [Limits of product specifications](#).

Methods

The NAS API supports HTTP or HTTPS requests. You can use GET and POST methods to send and retrieve requests. You can call an NAS API operation by using one of the following methods:

- [Programming language-specific NAS SDK](#)
- [Alibaba Cloud CLI](#)
- [Alibaba Cloud OpenAPI Explorer](#)

Terms

Term	Parameter	Description
Region	RegionId	An Alibaba Cloud data center. After you create a cloud resource, you cannot change the region where the cloud resource resides. Storage types and protocol types that are supported by NAS change based on the region.
Zone	ZoneId	Each zone is a physical location with independent power grids and networks in a region. Each region includes multiple zones that can communicate with each other. We recommend that you specify the same zone for a file system and a compute node on which you want to mount the file system. This eliminates extra latency for cross-zone communication between the file system and the compute node. Compute nodes include Elastic Compute Service (ECS) instances, E-HPC nodes, and Alibaba Cloud Container Service for Kubernetes (ACK) nodes.
File system	FileSystemId	Each NAS file system is treated as an instance of NAS. After you mount an NAS file system on a compute node, you can access the NAS file system in the same way you access a local file system.
Mount target	MountTargetDomain	Each mount target is an endpoint that the owner of a compute node uses to access the attached file system.

Term	Parameter	Description
Permission group	AccessGroupName	Each permission group includes a set of permissions that you can use to control access to an NAS file system. You can specify the authorized IP address, data access permission, user permission, and other parameters for a permission group.
Snapshot	SnapshotId	Each snapshot is a recovery point that is created for a file system. Snapshots are available only for NAS Extreme file systems.
Lifecycle	Name	NAS supports lifecycle management. You can perform hierarchical data management. For example, you can store input data in NAS Performance file systems, while storing returned results in NAS Capacity file systems and OSS buckets. This reduces a considerable number of storage costs. You can use the File Transfer Protocol (FTP) protocol to download returned results over the Internet.
Tag	Tag.N.Key	Each tag includes a key-value pair. You can add tags to file systems for fast grouping and filtering.

2.API overview

NAS provides the following APIs.

Serial No.	Category	API	Description
1	Region	DescribeRegions	Return all Region IDs.
2	File system	CreateFileSystem	Create a new file system.
3	File system	DeleteFileSystem	Delete existing file systems.
4	File system	DescribeFileSystems	Return file system description.
5	File system	ModifyFileSystem	Modify file system information.
6	Mount point	CreateMountTarget	Create a mount point.
7	Mount point	DeleteMountTarget	Delete existing mount points.
8	Mount point	DescribeMountTargets	Return mount point description.
9	Mount point	ModifyMountTarget	Modify mount point information.
10	Permission group		Create a permission group.
11	Permission group	DeleteAccessGroup	Delete existing permission groups.
12	Permission group	DescribeAccessGroups	Return permission group description.
13	Permission group	ModifyAccessGroup	Modify a permission group.
14	Permission group		Create a permission rule.
15	Permission group	DeleteAccessRule	Delete existing permission rules.
16	Permission group	DescribeAccessRules	Return permission rule description.
17	Permission group	ModifyAccessRule	Modify permission rules.

Serial No.	Category	API	Description
19	Snapshots for NAS Extreme	CreateSnapshot	Create a snapshot.
20	Snapshots for NAS Extreme	CreateAutoSnapshotPolicy	Create an automatic snapshot policy.
21	Snapshots for NAS Extreme	ApplyAutoSnapshotPolicy	Apply an automatic snapshot policy to one or more file systems.
22	Snapshots for NAS Extreme	DeleteSnapshot	Delete a snapshot.
23	Snapshots for NAS Extreme	CancelAutoSnapshotPolicy	Disable automatic snapshot policies for one or more file systems.
24	Snapshots for NAS Extreme	DeleteAutoSnapshotPolicy	Delete an automatic snapshot policy.
25	Snapshots for NAS Extreme	DescribeSnapshots	Query the list of all snapshots of the file system.
26	Snapshots for NAS Extreme	DescribeAutoSnapshotPolicies	Query the automatic snapshot policies you have created.
27	Snapshots for NAS Extreme	ModifyAutoSnapshotPolicy	Modify an automatic snapshot policy.
28	Snapshots for NAS Extreme	ResetFileSystem	Restore a file system to the status when a snapshot was created.
29	Tags	AddTags	Add one or multiple tags to a file system.
30	Tags	RemoveTags	Remove one or multiple tags from a file system.
31	Tags	DescribeTags	Search by tags added to a specific file system.

- [API Resources](#)
- [API Explorer](#)
- [API Error Center](#)

3. Request method

3.1. Request structure

NAS API requests are in a unified structure.

Endpoint

The endpoint of NAS APIs follows a format of `nas.aliyuncs.com` and `nas.[RegionId].aliyuncs.com`.

Specifically, `RegionId` refers to the service region. You can call the API of the designated region based on your own region. The service is available in the following regions.

Region	RegionId	Endpoint
Beijing	cn-beijing	nas.cn-beijing.aliyuncs.com
Shanghai	cn-shanghai	nas.cn-shanghai.aliyuncs.com
Hangzhou	cn-hangzhou	nas.cn-hangzhou.aliyuncs.com
Shenzhen	cn-shenzhen	nas.cn-shenzhen.aliyuncs.com
Qingdao	cn-qingdao	nas.cn-qingdao.aliyuncs.com
Zhangjiakou	cn-zhangjiakou	nas.cn-zhangjiakou.aliyuncs.com
Hohhot	cn-huhehaote	nas.cn-huhehaote.aliyuncs.com
Chengdu	cn-chengdu	nas.cn-chengdu.aliyuncs.com
China (Hong Kong)	cn-hongkong	nas.cn-hongkong.aliyuncs.com
Singapore	ap-southeast-1	nas.ap-southeast-1.aliyuncs.com
Sydney	ap-southeast-2	nas.ap-southeast-2.aliyuncs.com
Kuala Lumpur	ap-southeast-3	nas.ap-southeast-3.aliyuncs.com
Jakarta	ap-southeast-5	nas.ap-southeast-5.aliyuncs.com
Tokyo	ap-northeast-1	nas.ap-northeast-1.aliyuncs.com
Mumbai	ap-south-1	nas.ap-south-1.aliyuncs.com
Frankfurt	eu-central-1	nas.eu-central-1.aliyuncs.com

Region	RegionId	Endpoint
London	eu-west-1	nas.eu-west-1.aliyuncs.com
Silicon Valley	us-west-1	nas.us-west-1.aliyuncs.com
Virginia	us-east-1	nas.us-east-1.aliyuncs.com

Communication protocol

HTTP and HTTPS protocols are supported for request communications. We recommend that you use an HTTPS channel which provides higher security.

Request methods

NAS API supports sending HTTP GET requests. Using this method, you are required to include request parameters in the request URL.

Request parameters

Each request must specify the operation to be executed, namely the Action parameter (such as `DescribeRegions`). Each operation must contain the common request parameters and the specific request parameters of the specified operation.

Character encoding

Requests and responses are both encoded using the `UTF-8` character set.

Use SDK

JAVA, PHP, and, Python SDKs are currently supported.

We recommend that you use SDKs which can simplify the process for HTTP message encapsulation and signature operations.

You can download the SDK from the following links:

- Java: [NAS Java SDK](#)
- Python: [NAS Python SDK](#)
- PHP: [NAS PHP SDK](#)
- .Net: [NAS .Net SDK](#)

4.Regions

4.1. DescribeRegions

Queries all regions.

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	DescribeRegions	The operation that you want to perform. Set the value to DescribeRegions.
PageSize	Integer	No	10	The number of entries to return on each page. <ul style="list-style-type: none"> Maximum value: 100. Default value: 10.
PageNumber	Integer	No	1	The number of the page to return. <ul style="list-style-type: none"> Pages start from page 1. Default value: 1.
FileSystemType	String	No	standard	The type of file system. <ul style="list-style-type: none"> Valid values: standard and extreme. Default value: standard.

Response parameters

Parameter	Type	Example	Description
RequestId	String	A70BEE5D-76D3-49FB-B58F-1F398211A5C3	The ID of the request.
TotalCount	Integer	4	The total number of regions.

Parameter	Type	Example	Description
PageSize	Integer	2	The number of entries returned per page.
PageNumber	Integer	1	The page number of the returned page.
Regions	Array		The details of regions.
RegionId	String	cn-hangzhou	The ID of each region.
LocalName	String	East China 1	The name of the region.
RegionEndpoint	String	nas.cn-hangzhou.aliyuncs.com	The public endpoint of the region.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=DescribeRegions
&PageSize=2
&PageNumber=1
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeRegionsResponse>
  <PageNumber>1</PageNumber>
  <TotalCount>4</TotalCount>
  <PageSize>2</PageSize>
  <RequestId>A70BEE5D-76D3-49FB-B58F-1F398211A5C3</RequestId>
  <Regions>
    <Region>
      <RegionId>cn-hangzhou</RegionId>
      <RegionEndpoint>nas.cn-hangzhou.aliyuncs.com</RegionEndpoint>
      <LocalName>East China 1</LocalName>
    </Region>
    <Region>
      <RegionId>cn-shanghai</RegionId>
      <RegionEndpoint>nas.cn-shanghai.aliyuncs.com</RegionEndpoint>
      <LocalName>East China 2</LocalName>
    </Region>
  </Regions>
</DescribeRegionsResponse>
```

JSON format

```
{
  "TotalCount": 4,
  "PageSize": 2,
  "RequestId": "A70BEE5D-76D3-49FB-B58F-1F398211A5C3",
  "PageNumber": 1,
  "Regions": {
    "Region": [
      {
        "RegionId": "cn-hangzhou",
        "RegionEndpoint": "nas.cn-hangzhou.aliyuncs.com",
        "LocalName": "East China 1"
      },
      {
        "RegionId": "cn-shanghai",
        "RegionEndpoint": "nas.cn-shanghai.aliyuncs.com",
        "LocalName": "East China 2"
      }
    ]
  }
}
```

Error codes

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

5. File systems

5.1. DeleteFileSystem

Deletes a file system.

#Precautions

- Before you delete a file system, you must remove all mount targets from the file system.
- Use caution when you delete a file system. After a file system is deleted, the data on the file system cannot be restored. Make sure that all data is backed up.

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	DeleteFileSystem	The operation that you want to perform. Set the value to DeleteFileSystem.
FileSystemId	String	Yes	1ca404a348	The ID of the file system.

Response parameters

Parameter	Type	Example	Description
RequestId	String	9E15E394-38A6-457A-A62A-D9797C9A0262	The ID of the request.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=DeleteFileSystem
&FileSystemId=1ca404a348
&<Common request parameters>
```

Sample success responses

XML format

```
<DeleteFileSystemResponse>
  <RequestId>9E15E394-38A6-457A-A62A-D9797C9A0262</RequestId>
</DeleteFileSystemResponse>
```

JSON format

```
{
  "RequestId": "9E15E394-38A6-457A-A62A-D9797C9A0262"
}
```

Error codes

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

5.2. ModifyFileSystem

Modifies the details of a file system.

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	ModifyFileSystem	The operation that you want to perform. Set the value to ModifyFileSystem.
FileSystemId	String	Yes	1ca404a666	The ID of the file system.
Description	String	No	Null	The description of the file system. The description must be 2 to 128 characters in length. The description must start with a letter and cannot start with http:// or https://. The description can contain letters, digits, colons (:), underscores (_), and hyphens (-).

Response parameters

Parameter	Type	Example	Description
RequestId	String	5BC5CB97-9F28-42FE-84A4-0CD0DF4211C8	The ID of the request.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=ModifyFileSystem
&FileSystemId=1ca404a666
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyFileSystemResponse>
  <RequestId>5BC5CB97-9F28-42FE-84A4-0CD0DF4211C8</RequestId>
</ModifyFileSystemResponse>
```

JSON format

```
{
  "RequestId": "5BC5CB97-9F28-42FE-84A4-0CD0DF4211C8"
}
```

Error codes

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

5.3. UpgradeFileSystem

Scales up a file system.

Description

When you call this operation, note that:


- A General-purpose NAS file system is automatically scaled up on demand. Therefore, you do not need to call this operation to scale up a General-purpose NAS file system.
- You can call this operation to scale up an Extreme NAS file system.
- You cannot call this operation to scale up a Cloud Paralleled File System (CPFS).

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	UpgradeFileSystem	The operation that you want to perform. Set the value to UpgradeFileSystem.
Capacity	Long	Yes	100	The capacity of the file system. Unit: GB.
DryRun	Boolean	Yes	true	Specifies whether to perform a dry run for the current request. The dry run checks whether the request parameters are valid and whether the requested resources are available. The dry run does not scale up the specified file system or incur fees. Valid values: <ul style="list-style-type: none"> true: A dry-run request is sent, and the specified file system is not scaled up. The check items include the request format, service limits, available ECS resources, and whether the required parameters are set. If the check fails, the corresponding error code is returned. If the check succeeds, the 200 HTTP status code is returned, but the return value of the FileSystemId parameter is NULL. false: A normal request is sent, and the specified file system is scaled up after the check succeeds.
FileSystemId	String	Yes	1ca404****	The ID of the file system.

Parameter	Type	Required	Example	Description
ClientToken	String	No	123e4567-e89b-12d3-a456-42665544****	<p>The client token that is used to ensure the idempotence of the request. You can use the client to generate a value for this parameter, but you must make sure that the value is unique among different requests.</p> <p>The token can contain only ASCII characters and cannot exceed 64 characters in length. For more information, see How to ensure idempotence.</p> <div style="border: 1px solid #add8e6; padding: 5px; margin-top: 10px;"> <p> Note If the token is not specified, the system uses the ID of the API request as the client token. The ID of each request is unique.</p> </div>

Response parameters

Parameter	Type	Example	Description
RequestId	String	98696EF0-1607-4E9D-B01D-F20930B68845	The ID of the request.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=UpgradeFileSystem
&Capacity=100
&DryRun=true
&FileSystemId=1ca404****
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>98696EF0-1607-4E9D-B01D-F20930B68845</RequestId>
```

JSON format

```
{
  "RequestId": "98696EF0-1607-4E9D-B01D-F20930B68845"
}
```

Error codes

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

5.4. CreateFileSystem

Creates a file system.

Description

The CreateFileSystem operation is used to create an Apsara Storage NAS file system.

Before you call this operation, make sure that you understand the billing method of NAS. For more information, visit [File Storage NAS Pricing](#).

Before you create a NAS file system, you must complete the real-name verification. For more information, see [Real-name registration](#).

When you create a NAS file system, note that:

- Three types of NAS file systems are available:
 - General-purpose NAS
 - Extreme NAS
 - CPFS file system
- Two billing methods of NAS file systems are available:
 - Pay-as-you-go. NAS is billed on an hourly basis. The billing is based on the usage of a file system.
 - Subscription. You are charged based on the subscription period before you can use the storage plan. When you call the CreateFileSystem operation, the expense of the storage plan is deducted from the balance of your account.
- The specifications of each NAS file system vary with the file system type. The specifications include available regions, storage types, and protocol types. For more information, visit the following pages:
 - [General-purpose NAS](#)
 - [Extreme NAS \(Pay-as-you-go\)](#)
 - [Extreme NAS \(Subscription\)](#)
 - [CPFS file system \(Pay-as-you-go\)](#)
 - [CPFS file system \(Subscription\)](#)

The following examples show how to create different types of file systems:

- Create a General-purpose NAS file system:

```
java
public void createFileSystem(IAcsClient client) throws Exception{
    CreateFileSystemRequest request = new CreateFileSystemRequest();
    request.setFileSystemType("standard"); //Create a General-purpose NAS file system.
    request.setStorageType(storageType); //Valid values: Performance and Capacity.
    request.setProtocolType(protocolType); //NFS or SMB
    request.setZoneId(zoneId); //The ID of the zone.
    request.setDescription(description); //The description of the file system.

    CreateFileSystemResponse response = client.getAcsResponse(request);
    response.getFileSystemId(); //Obtain the ID of the NAS file system.
}
```

- Create an Extreme NAS file system:

```
java
public void createFileSystem(IAcsClient client) throws Exception{
    CreateFileSystemRequest request = new CreateFileSystemRequest();
    request.setFileSystemType("extreme"); //Create an Extreme NAS file system.
    request.setChargeType(chargeType); //Valid values: PayAsYouGo and Subscription.
    request.setDuration(1); //The Duration parameter is required if the ChargeType parameter is set to Subscription. Unit: months.
    request.setCapacity(capacity); //The capacity of the NAS file system. For more information about the file system specifications, visit the pages that are provided in the topic.
    request.setBandwidth(bandwidth); //The bandwidth of the NAS file system. For more information about the file system specifications, visit the pages that are provided in the topic.
    request.setStorageType(storageType); //Valid values: standard and advance.
    request.setProtocolType(protocolType); //Set the value to NFS. (Extreme NAS only supports NFS.)
    request.setEncryptType(encryptType); //Specify whether to enable encryption.
    request.setSnapshotId(snapshotId); //Specify whether to create the NAS file system from an existing snapshot.
    request.setZoneId(zoneId); //The ID of the zone.
    request.setClientToken(clientToken); //The client token that is used to ensure the idempotence of the request.
    request.setDryRun(dryRun); //If this parameter is set to true, a dry run is performed to check whether the requested NAS resources are available. The dry run does not create file systems or incur fees.

    CreateFileSystemResponse response = client.getAcsResponse(request);
    response.getFileSystemId(); //Obtain the ID of the NAS file system.
}
```

- Create a CPFS file system:


```

java
public void createFileSystem(IAcsClient client) throws Exception{
    CreateFileSystemRequest request = new CreateFileSystemRequest();
    request.setFileSystemType("cpfs"); //Create a CPFS file system.
    request.setChargeType(chargeType); //Valid values: PayAsYouGo and Subscription.
    request.setDuration(1); //The Duration parameter is required if the ChargeType parameter is set to Subscription. Unit: months.
    request.setCapacity(capacity); //The capacity of the NAS file system. For more information about the file system specifications, visit the pages that are provided in the topic.
    request.setBandwidth(bandwidth); //The bandwidth of the NAS file system. For more information about the file system specifications, visit the pages that are provided in the topic.
    request.setStorageType(storageType); //Valid values: standard and advance.
    request.setZoneId(zoneId); //The ID of the zone.
    request.setClientToken(clientToken); //The client token that is used to ensure the idempotence of the request.
    request.setDryRun(dryRun); //If this parameter is set to true, a dry run is performed to check whether the requested NAS resources are available. The dry run does not create file systems or incur fees.

    CreateFileSystemResponse response = client.getAcsResponse(request);
    response.getFileSystemId(); //Obtain the ID of the NAS file system.
}

```

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	CreateFileSystem	The operation that you want to perform. Set the value to CreateFileSystem.

Parameter	Type	Required	Example	Description
EncryptType	Integer	Yes	1	<p>Specifies whether to create an encrypted file system. This parameter is valid if the <code>FileSystemType</code> parameter is set to standard or extreme.</p> <p>You can use keys that are hosted by Key Management Service (KMS) to encrypt data that is stored in a file system. Data is automatically decrypted when you access encrypted data. Valid values:</p> <ul style="list-style-type: none"> • 0: do not encrypt data that is stored in the file system. • 1: encrypt data that is stored in the file system.
ProtocolType	String	Yes	NFS	<p>The type of the protocol. This parameter is valid and required when the <code>FileSystemType</code> parameter is set to standard or extreme.</p> <p>Valid values:</p> <ul style="list-style-type: none"> • NFS • SMB
StorageType	String	Yes	Performance	<p>The type of the storage. Valid values:</p> <ul style="list-style-type: none"> • Performance and Capacity if the <code>FileSystemType</code> parameter is set to standard. • standard and advance if the <code>FileSystemType</code> parameter is set to extreme. • standard and advance if the <code>FileSystemType</code> parameter is set to cpfs.

Parameter	Type	Required	Example	Description
ZoneId	String	Yes	cn-hangzhou-b	<p>The ID of the zone.</p> <p>Each region has multiple isolated locations that are known as zones. The power supply and network of each zone are independent. An Elastic Compute Service (ECS) instance can access a file system in the same region but a different zone. We recommend that you set this parameter to the zone where the ECS instance resides. This avoids extra latency due to cross-zone communication between the file system and the ECS instance.</p>
FileSystemType	String	No	standard	<p>The type of the file system. Default value: standard. Valid values:</p> <ul style="list-style-type: none"> standard: General-purpose NAS extreme: Extreme NAS cpfs: CPFS
ChargeType	String	No	PayAsYouGo	<p>The billing method. Valid values:</p> <ul style="list-style-type: none"> PayAsYouGo Subscription
Duration	Integer	No	1	<p>The period of the subscription. Unit: months. This parameter is valid and required if ChargeType is set to Subscription.</p> <p>If you do not renew a subscription before it expires, the file system is automatically released.</p>

Parameter	Type	Required	Example	Description
Capacity	Long	No	100	<p>The capacity of the file system. Unit: GB. This parameter is valid and required if the FileSystemType parameter is set to extreme or cpfs.</p> <p>For more information about how to select the specifications, visit the following buy pages:</p> <ul style="list-style-type: none">• Extreme NAS (Pay-as-you-go)• Extreme NAS (Subscription)• CPFS file system (Pay-as-you-go)• CPFS file system (Subscription)
Bandwidth	Long	No	150	<p>The maximum throughput of the file system. Unit: MB/s. This parameter is valid and required only when the FileSystemType parameter is set to cpfs.</p> <p>For more information about how to select the specifications, visit the following buy pages:</p> <ul style="list-style-type: none">• CPFS file system (Pay-as-you-go)• CPFS file system (Subscription)

Parameter	Type	Required	Example	Description
SnapshotId	String	No	s-xxx	<p>The ID of the snapshot. If you set this parameter, the NAS file system will be created from the specified snapshot. This parameter is valid only for Extreme NAS.</p> <div style="background-color: #e1f5fe; padding: 10px; border: 1px solid #cfcfcf;"> <p> Note If you create a file system from a snapshot, the version of the file system is the same as the version of the source file system of the snapshot. If the version of the source file system of a snapshot is 1 and you want to create a file system of version 2, perform the following steps: Create a file system (File System 1) from the snapshot. Create another file system (File System 2) whose version is 2. Migrate data from File System 1 to File System 2. Switch the workloads from File System 1 to File System 2.</p> </div>
VpcId	String	No	vpc-xxx	<p>The ID of the VPC. If you set the VpcId and VSwitchId parameters, a default mount target is pre-configured when the file system is created.</p>

Parameter	Type	Required	Example	Description
VSwitchId	String	No	vsw-xxx	The ID of the VSwitch. If you set the Vpclid and VSwitchId parameters, a default mount target is pre-configured when the file system is created.
Description	String	No	The description of the file system.	The description must be 2 to 128 characters in length. It must start with a letter, but cannot start with <code>http://</code> or <code>https://</code> . It can contain letters, digits, colons (:), underscores (_), and hyphens (-).
ClientToken	String	No	123e4567-e89b-12d3-a456-42665544****	<p>The client token that is used to ensure the idempotence of the request. You can use the client to generate the value, and you must make sure that it is unique among different requests. The token can only contain ASCII characters and cannot exceed 64 characters in length. For more information, see How to ensure idempotence.</p> <div style="border: 1px solid #add8e6; padding: 5px; background-color: #e6f2ff;"> <p> Note If this parameter is not specified, the system automatically uses the ID of the API request as the client token. The ID of each request is unique.</p> </div>

Parameter	Type	Required	Example	Description
DryRun	Boolean	No	true	<p>Specifies whether to perform a dry run for the current request. The dry run checks whether the request parameters are valid and whether the requested resource is available. The dry run does not create file systems or incur fees.</p> <p>Valid values:</p> <ul style="list-style-type: none"> • true: A dry-run request is sent and no file system is created. The check items include the request format, service limits, available NAS resources, and whether the required parameters are set. If the check fails, the corresponding error code is returned. If the check succeeds, HTTP status code 200 is returned, but no FileSystemId is returned. • false: A normal request is sent, and a file system is created after the check succeeds. This parameter is set to false by default.

Note the following information about API idempotence:

When you call the CreateFileSystem operation, the client may attempt to resend the request if the request times out or an internal error occurs. You can set the ClientToken parameter in the request to avoid that repeated orders are created. This parameter allows you to ensure the idempotence of requests and create one order each time. However, if a network timeout or an internal error occurs, the order may fail to be created.

Details about the ClientToken parameter are as follows:

- The client token is a unique and case-sensitive string that is generated by the client. It can only contain ASCII characters and cannot exceed 64 characters in length. Example:

```
ClientToken=123e4567-e89b-12d3-a456-426655440000
```

- If you specify a client token that has been used and other request parameters are changed, ECS will return the IdempotentParameterMismatch error code.

Note You must change the values of SignatureNonce, Timestamp, and Signature when you call the operation again. This is because ECS uses SignatureNonce to prevent replay attacks and uses Timestamp to record the timestamp of each request. Therefore, a retry request requires different SignatureNonce and Timestamp values. This will also change the Signature value.

- If you set the ClientToken parameter to the same value:
 - If HTTP status code 200 is returned, a retry generates the same result as the last request and your server status is not affected.
 - If HTTP status code 4xx is returned, resend the same request only if the error message includes "try it later". You must modify the request parameters based on the returned error message and then resend the request.
 - If HTTP status code 5xx is returned, it indicates that a network timeout or an internal error may occur. In this case, resend the same request that contains the same client token and other request parameters to confirm the request result.
- The ClientToken is valid for 30 days.

Response parameters

Parameter	Type	Example	Description
FileSystemId	String	1ca404****	The ID of the file system that is created.
RequestId	String	98696EF0-1607-4E9D-B01D-F20930B68845	The ID of the request.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=CreateFileSystem
&StorageType=Performance
&ProtocolType=NFS
&Description=balabala
&<Common request parameters>
```

Sample success responses

XML format

```
<CreateFileSystemResponse>
  <FileSystemId>1ca404****</FileSystemId>
  <RequestId>98696EF0-1607-4E9D-B01D-F20930B68845</RequestId>
</CreateFileSystemResponse>
```

JSON format


```
{
  "RequestId": "98696EF0-1607-4E9D-B01D-F20930B68845",
  "FileSystemId": "1ca404****"
}
```

Error codes

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

5.5. DescribeFileSystems

Queries the details of file systems.

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

Name	Type	Required	Example	Description
Action	String	Yes	DescribeFileSystems	The operation that you want to perform. Set the value to DescribeFileSystems.
FileSystemId	String	No	109c04****	The ID of the file system.
FileSystemType	String	No	standard	The type of the file system. <ul style="list-style-type: none"> Valid values: all (all file systems), standard (NAS General-purpose), extreme (NAS Extreme), and cpfs (CPFS). Default value: all.
VpcId	String	No	vpc-bp1sevsgtqv5gxb1****	The ID of the VPC. The VPC that you specify must be the same as the VPC where the ECS instance on which you want to mount the file system resides.

Name	Type	Required	Example	Description
PageSize	Integer	No	1	The number of entries to return on each page. <ul style="list-style-type: none"> Valid values: 1 to 100. Default value: 10.
PageNumber	Integer	No	1	The number of the page to return. <ul style="list-style-type: none"> Pages start from page 1. Default value: 1.

Response parameters

Parameter	Type	Example	Description
PageNumber	Integer	1	The page number of the returned page.
PageSize	Integer	1	The number of file systems to return on each page.
RequestId	String	035B3A3A-E514-4B41-B906-5D906CFBD65F	The ID of the request.
TotalCount	Integer	1	The total number of file systems.
FileSystems	Array		The details of file systems.
FileSystem			
Bandwidth	Long	150	The bandwidth of each file system. Unit: Mbit/s. This parameter is unavailable for General-purpose NAS file systems.
Capacity	Long	1	The capacity of the file system. Unit: GB.

Parameter	Type	Example	Description
ChargeType	String	PayAsYouGo	<p>The type of the billing method.</p> <ul style="list-style-type: none"> Subscription: indicates that the subscription billing method is adopted. PayAsYouGo: indicates that the pay-as-you-go billing method is adopted. Package: indicates that a storage plan is attached.
CreateTime	String	2017-05-27T15:43:06CST	The creation time of the file system.
Description	String	Null	The description of the file system.
EncryptType	Integer	1	<ul style="list-style-type: none"> 0: indicates that no encryption is applied to the file system. 1: indicates that encryption is applied to the file system.
ExpiredTime	String	1572174830000	The expiration time of the file system.
FileSystemId	String	109c04****	The ID of the file system.
FileSystemType	String	all	The type of the file system.
Ldap	Struct		The details of a Lightweight Directory Access Protocol (LDAP) service. This parameter is available only for Cloud Paralleled File System (CPFS) file systems.
BindDN	String	cn=alibaba,dc=com	An LDAP entry.
SearchBase	String	dc=example	An LDAP search base.
URI	String	ldap://ldap.example.example	An LDAP Uniform Resource Identifier (URI).

Parameter	Type	Example	Description
MeteredSize	Long	1611661312	The used space of the file system. The value of the parameter indicates the maximum used space for the last hour rather than the real-time used space. Unit: byte.
MountTargets	Array		The details of mount targets.
MountTarget			
AccessGroupName	String	test-001	The name of a permission group that applies to each mount target.
MountTargetDomain	String	109c042666-w****.cn-hangzhou.nas.aliyuncs.com	The endpoint of each mount target.
NetworkType	String	vpc	The type of the network. Valid values: VPC and Classic.
Status	String	active	The status of the mount target. Valid values: active and inactive. This parameter is available only for General-purpose NAS file systems.
VpcId	String	vpc-bp1sevsqtqvk5gxb****	The ID of the VPC.
VswId	String	vsw-bp1omfzsszekkvaxn****	The ID of the VSwitch.
Packages	Array		The details of storage plans.
Package			
ExpiredTime	String	2020-01-05T16:00:00Z	The end time of the validity period for the storage plan.
PackageId	String	naspackage-0be9c4b624-37****	The ID of the storage plan.

Parameter	Type	Example	Description
PackageType	String	hybrid	The type of the storage plan.
Size	Long	107374182400	The capacity of the storage plan.
StartTime	String	2019-12-05T01:40:56Z	The start time of the validity period for the storage plan.
ProtocolType	String	NFS	The protocol type. Valid values: NFS and SMB.
RegionId	String	cn-hangzhou	The ID of the region.
Status	String	Pending	<p>The status of the file system. This parameter is available only for Extreme NAS file systems.</p> <ul style="list-style-type: none"> • Pending: indicates that the file system is being accessed. • Running: indicates that the file system is available. Note: Before you perform subsequent operations such as creating mount targets, make sure that the file system is in the Running state. • Stopped: indicates that the file system is unavailable.
StorageType	String	Performance	<p>The storage type.</p> <ul style="list-style-type: none"> • Valid values for General-purpose NAS: Capacity and Performance. • Valid values for Extreme NAS: standard and advance.
ZoneId	String	cn-hangzhou-b	The ID of the zone where the file system resides.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=DescribeFileSystems
&FileSystemId=109c04****
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeFileSystemsResponse>
  <PageNumber>1</PageNumber>
  <TotalCount>1</TotalCount>
  <PageSize>1</PageSize>
  <RequestId>035B3A3A-E514-4B41-B906-5D906CFBD65F</RequestId>
  <FileSystems>
    <FileSystem>
      <FileSystemId>109c04****</FileSystemId>
      <ProtocolType>NFS</ProtocolType>
      <RegionId>cn-hangzhou</RegionId>
      <CreateTime>2017-05-27T15:43:06CST</CreateTime>
      <Destription></Destription>
      <MountTargets>
        <MountTarget>
          <MountTargetDomain>109c042666-w****.cn-hangzhou.nas.aliyuncs.com</MountTargetDom
ain>
        </MountTarget>
      </MountTargets>
      <StorageType>Performance</StorageType>
      <MeteredSize>1611661312</MeteredSize>
    </FileSystem>
  </FileSystems>
</DescribeFileSystemsResponse>
```

JSON format

```
{
  "PageNumber": 1,
  "TotalCount": 1,
  "PageSize": 1,
  "RequestId": "BC7C825C-5F65-4B56-BEF6-98C56C7C546E",
  "FileSystems": {
    "FileSystem": [
      {
        "FileSystemId": "037cb4****",
        "Description": "31a8e48eda",
        "Packages": {
          "Package": [
            {
              "PackageId": ""
            }
          ]
        },
        "ProtocolType": "NFS",
        "RegionId": "cn-shanghai",
        "CreateTime": "2017-04-18T00:22:56CST",
        "Destription": "31a8e48eda",
        "Zoneld": "cn-shanghai-b",
        "MountTargets": {
          "MountTarget": [
            {
              "Status": "active",
              "NetworkType": "vpc",
              "VswId": "vsw-uf64zi0nn71ntvkbz****",
              "AccessGroupName": "DEFAULT_VPC_GROUP_NAME",
              "VpcId": "vpc-uf65wx2khu08h4dlw****",
              "MountTargetDomain": "31a8e48eda-y****.cn-shanghai.nas.aliyuncs.com"
            }
          ]
        },
        "StorageType": "Performance",
        "MeteredSize": 4295639040
      }
    ]
  }
}
```

Error codes

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

6. Mount targets

6.1. DescribeMountTargets

Queries the information of mount targets.

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	DescribeMountTargets	The operation that you want to perform. Set the value to DescribeMountTargets.
FileSystemId	String	Yes	1ca404****	The ID of the file system.
MountTargetDomain	String	No	1ca404a666-x****.cn-hangzhou.nas.aliyuncs.com	The domain name of the mount target.
PageSize	Integer	No	1	The number of entries to return on each page. <ul style="list-style-type: none"> Maximum value: 100. Default value: 10.
PageNumber	Integer	No	1	The number of the page to return. <ul style="list-style-type: none"> Pages start from page 1. Default value: 1.

Response parameters

Parameter	Type	Example	Description
MountTargets	Array		The information of mount targets.
MountTarget			

Parameter	Type	Example	Description
AccessGroup	String	DEFAULT_VPC_GROUP_NAME	The name of the permission group that applies to the mount target.
MountTargetDomain	String	1ca404a666-w****.cn-hangzhou.nas.aliyuncs.com	The domain name of the mount target.
NetworkType	String	Vpc	The network type of the mount target.
Status	String	Active	The status of the mount target. Valid values: Active and Inactive. Before you mount a file system, make sure that the mount target is in the Active state.
VpcId	String	vpc-2zesj9afh3y518k9o****	The ID of the VPC where the mount target resides. This parameter is returned if the network type of the mount target is VPC.
VswId	String	vsw-2zevmwkwyztjuoffg****	The ID of the VSwitch in the VPC where the mount target resides.
PageNumber	Integer	1	The page number of the returned page.
PageSize	Integer	1	The number of entries returned per page.
RequestId	String	3BAB90FD-B4A0-48DA-9F09-2B963510A0EF	The ID of the request.
TotalCount	Integer	1	The total number of mount targets.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=DescribeMountTargets
&FileSystemId=1ca404****
&<Common request parameters>
```

Sample success responses

XML format

```

<DescribeMountTargetsResponse>
  <PageNumber>1</PageNumber>
  <TotalCount>1</TotalCount>
  <PageSize>1</PageSize>
  <RequestId>3BAB90FD-B4A0-48DA-9F09-2B963510A0EF</RequestId>
  <MountTargets>
    <MountTarget>
      <Status>Active</Status>
      <NetworkType>Vpc</NetworkType>
      <Vswld>vsw-2zevmwkwyztjuoffg****</Vswld>
      <VpcId>vpc-2zesj9afh3y518k9o****</VpcId>
      <MountTargetDomain>1ca404a666-w****.cn-hangzhou.nas.aliyuncs.com</MountTargetDomain>
      <AccessGroup>DEFAULT_VPC_GROUP_NAME</AccessGroup>
    </MountTarget>
  </MountTargets>
</DescribeMountTargetsResponse>

```

JSON format

```

{
  "TotalCount": 1,
  "PageSize": 1,
  "RequestId": "3BAB90FD-B4A0-48DA-9F09-2B963510A0EF",
  "PageNumber": 1,
  "MountTargets": {
    "MountTarget": [
      {
        "Status": "Active",
        "Vswld": "vsw-2zevmwkwyztjuoffg****",
        "VpcId": "vpc-2zesj9afh3y518k9o****",
        "MountTargetDomain": "1ca404a666-w****.cn-hangzhou.nas.aliyuncs.com",
        "NetworkType": "Vpc",
        "AccessGroup": "DEFAULT_VPC_GROUP_NAME"
      }
    ]
  }
}

```

Error codes

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

6.2. CreateMountTarget

Creates a mount target.

Precautions

After you create a mount target, you must call the [DescribeMountTargets](#) operation to query the details of the mount target. This is a required step because some details for the mount target are generated asynchronously at the backend when you use the [CreateMountTarget](#) API operation to create the mount target. Before you mount a file system, you must ensure the attached mount target is in the Active state. Otherwise, the file system may fail to be mounted.

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	CreateMountTarget	The operation that you want to perform. Set the value to CreateMountTarget.
AccessGroupName	String	Yes	classic-test	The name of the permission group. Default permission groups include DEFAULT_VPC_GROUP_NAME and DEFAULT_CLASSIC_GROUP_NAME.
FileSystemId	String	Yes	174494b666	The ID of the file system.
NetworkType	String	Yes	VPC	The type of network. Valid values: VPC and Classic.
VpcId	String	No	vpc-2zesj9afh3y518k9o****	The ID of the VPC. If you specify VPC for the NetworkType parameter, you must specify the VpcId parameter.
VSwitchId	String	No	vsw-2zevmkwqyztjuoffg****	The ID of the VSwitch. If you specify VPC for the NetworkType parameter, you must specify the VSwitchId parameter.

Parameter	Type	Required	Example	Description
SecurityGroupId	String	No	sg-bp1fg655nh68xyz9****	Security Group ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	70EACC9C-D07A-4A34-ADA4-77506C42B023	The ID of the request.
MountTargetDomain	String	174494b666-xog95.cn-hangzhou.nas.aliyuncs.com	The public endpoint of the mount target.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=CreateMountTarget
&AccessGroupName=classic-test
&FileSystemId=1ca404a666
&<Common request parameters>
```

Sample success responses

XML format

```
<CreateMountTargetResponse>
  <RequestId>70EACC9C-D07A-4A34-ADA4-77506C42B023</RequestId>
  <MountTargetDomain>174494b666-xog95.cn-hangzhou.nas.aliyuncs.com</MountTargetDomain>
</CreateMountTargetResponse>
```

JSON format

```
{
  "RequestId": "70EACC9C-D07A-4A34-ADA4-77506C42B023",
  "MountTargetDomain": "174494b666-xog95.cn-hangzhou.nas.aliyuncs.com"
}
```

Error codes

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

6.3. ModifyMountTarget

Modifies a mount target.

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	ModifyMountTarget	The operation that you want to perform. Set the value to ModifyMountTarget.
FileSystemId	String	Yes	1ca404a666	The ID of the file system.
MountTargetDomain	String	Yes	1ca404a666-wxa89.cn-hangzhou.nas.aliyuncs.com	The public endpoint of the mount target.
AccessGroupName	String	No	classic-test	The name of the permission group.
Status	String	No	Inactive	The status of the mount target. Valid values: Active (enabled) and Inactive (disabled).

Response parameters

Parameter	Type	Example	Description
RequestId	String	FF387D95-34C4-4879-B65A-99D1FA1B65CD	The ID of the request.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=ModifyMountTarget
&FileSystemId=1ca404a666
&MountTargetDomain=1ca404a666
&Status=Inactive
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyMountTargetResponse>
  <RequestId>FF387D95-34C4-4879-B65A-99D1FA1B65CD</RequestId>
</ModifyMountTargetResponse>
```

JSON format

```
{
  "RequestId": "FF387D95-34C4-4879-B65A-99D1FA1B65CD"
}
```

Error codes

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

6.4. DeleteMountTarget

Deletes a mount target.

##Precautions

Use caution when you delete a mount target. After you delete a mount target, the mount target cannot be restored.

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	DeleteMountTarget	The operation that you want to perform. Set the value to DeleteMountTarget.

Parameter	Type	Required	Example	Description
FileSystemId	String	Yes	174494b666	The ID of the file system.
MountTargetDomain	String	Yes	174494b666-xog95.cn-hangzhou.nas.aliyuncs.com	The public endpoint of the file system.

Response parameters

Parameter	Type	Example	Description
RequestId	String	5BC5CB97-9F28-42FE-84A4-0CD0DF4211C8	The ID of the request.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=DeleteMountTarget
&FileSystemId=174494b666
&MountTargetDomain=174494b666-xog95.cn-hangzhou.nas.aliyuncs.com
&<Common request parameters>
```

Sample success responses

XML format

```
<DeleteMountTargetResponse>
  <RequestId>5BC5CB97-9F28-42FE-84A4-0CD0DF4211C8</RequestId>
</DeleteMountTargetResponse>
```

JSON format

```
{
  "RequestId": "5BC5CB97-9F28-42FE-84A4-0CD0DF4211C8"
}
```

Error codes

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

7. Permission groups

7.1. ModifyAccessRule

Modifies a rule.

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	ModifyAccessRule	The operation that you want to perform. Set the value to ModifyAccessRule.
AccessGroupName	String	Yes	classic-test	The name of the permission group.
AccessRuleId	String	Yes	1	The ID of the rule.
SourceCidrIp	String	No	192.168.0.1	An IP address or Classless Inter-Domain Routing (CIDR) block. For example, 12.1.1.1 or 13.1.1.1/25. Note Only IP addresses are available for permission groups of the Classic type.
RWAccessType	String	No	RDWR	The type of permission. Valid values: RDWR and RONLY.
UserAccessType	String	No	all_squash	The type of user permission.
Priority	Integer	No	1	The priority. Valid values: 1 to 100. Default value: 1.
FileSystemType	String	No	standard	The type of file system. Valid values: standard and extreme. Default value: standard.

Response parameters

Parameter	Type	Example	Description
RequestId	String	6299428C-3861-435D-AE54-9B330A0007C8	The ID of the request.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=ModifyAccessRule
&AccessGroupName=classic-test
&AccessRuleId=1
&SourceCidrIp=192.168.0.1
&RWAccessType=RDWR
&UserAccessType=all_squash
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyAccessRuleResponse>
  <RequestId>6299428C-3861-435D-AE54-9B330A0007C8</RequestId>
</ModifyAccessRuleResponse>
```

JSON format

```
{
  "RequestId": "6299428C-3861-435D-AE54-9B330A0007C8"
}
```

Error codes

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

7.2. ModifyAccessGroup

Modifies a permission group.

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	ModifyAccessGroup	The operation that you want to perform. Set the value to ModifyAccessGroup.
AccessGroupName	String	Yes	classic-test	The name of the permission group.
Description	String	No	classic-test	The description of the permission group. By default, the description of the permission group is the same as the name of the permission group. The description must be 2 to 128 characters in length. The description must start with a letter and cannot start with http:// or https://. The description can contain letters, digits, colons (:), underscores (_), and hyphens (-).
FileSystemType	String	No	standard	The type of file system. Valid values: standard and extreme. Default value: standard.

Response parameters

Parameter	Type	Example	Description
RequestId	String	ED2AE737-9D50-4CA4-B0DA-31BD610C2363	The ID of the request.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=ModifyAccessGroup
&AccessGroupName=classic-test
&Description=classic-test
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyAccessGroupResponse>
  <RequestId>ED2AE737-9D50-4CA4-B0DA-31BD610C2363</RequestId>
</ModifyAccessGroupResponse>
```

JSON format

```
{
  "RequestId": "ED2AE737-9D50-4CA4-B0DA-31BD610C2363"
}
```

Error codes

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

7.3. DeleteAccessGroup

Deletes a permission group.

##Precautions

Default permission groups include `DEFAULT_VPC_GROUP_NAME` and `DEFAULT_CLASSIC_GROUP_NAME`. You cannot delete the default permission groups.

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	DeleteAccessGroup	The operation that you want to perform. Set the value to DeleteAccessGroup.
AccessGroupName	String	Yes	classic-test	The name of the permission group.
FileSystemType	String	No	standard	The type of the file system. <ul style="list-style-type: none">Valid values: standard and extreme.Default value: standard.

Response parameters

Parameter	Type	Example	Description
RequestId	String	9E15E394-38A6-457A-A62A-D9797C9A0262	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DeleteAccessGroup
&AccessGroupName=classic-test
&<Common request parameters>
```

Sample success responses

XML format

```
<DeleteAccessGroupResponse>
  <RequestId>5BC5CB97-9F28-42FE-84A4-0CD0DF4211C8</RequestId>
</DeleteAccessGroupResponse>
```

JSON format

```
{
  "RequestId": "9E15E394-38A6-457A-A62A-D9797C9A0262"
}
```

Error codes

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

7.4. DescribeAccessRules

Queries the details of rules.

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	DescribeAccessRules	The operation that you want to perform. Set the value to DescribeAccessRules.
AccessGroupName	String	Yes	classic-test	The name of the permission group.
AccessRuleId	String	No	1	The ID of the rule.
PageSize	Integer	No	1	The number of entries to return on each page. Default value: 10.
PageNumber	Integer	No	1	The number of the page to return. Pages start from page 1.
FileSystemType	String	No	standard	The type of the file system. Valid values: standard and extreme. Default value: standard.

Response parameters

Parameter	Type	Example	Description
RequestId	String	86D89E82-4297-4343-8E1E-A2495B35CC70	The ID of the request.
TotalCount	Integer	1	The total number of rules.
PageSize	Integer	1	The number of entries returned per page.
PageNumber	Integer	1	The page number of the returned page.
AccessRules	Array		The details of rules.
SourceCidrIp	String	10.0.0.1/32	An IP address or Classless Inter-Domain Routing (CIDR) block.
Priority	Integer	1	The priority. Valid values: 1 to 100. Default value: 1.

Parameter	Type	Example	Description
AccessRuleId	String	1	The ID of each rule.
RWAccess	String	RDWR	The type of permission. Valid values: RDWR and RONLY. Default value: RDWR.
UserAccess	String	no_squash	The type of user permission. Valid values: no_squash, root_squash, and all_squash. Default value: no_squash.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=DescribeAccessRules
&AccessGroupName=classic-test
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeAccessRulesResponse>
  <AccessRules>
    <AccessRule>
      <SourceCidrIp>10.0.0.1/32</SourceCidrIp>
      <AccessRuleId>1</AccessRuleId>
      <RWAccess>RDWR</RWAccess>
      <UserAccess>no_squash</UserAccess>
      <Priority>1</Priority>
    </AccessRule>
  </AccessRules>
  <PageNumber>1</PageNumber>
  <TotalCount>1</TotalCount>
  <PageSize>1</PageSize>
  <RequestId>86D89E82-4297-4343-8E1E-A2495B35CC70</RequestId>
</DescribeAccessRulesResponse>
```

JSON format

```
{
  "TotalCount": 1,
  "PageSize": 1,
  "RequestId": "86D89E82-4297-4343-8E1E-A2495B35CC70",
  "PageNumber": 1,
  "AccessRules": {
    "AccessRule": [
      {
        "RWAccess": "RDWR",
        "UserAccess": "no_squash",
        "Priority": 1,
        "SourceCidrIp": "10.0.0.1/32",
        "AccessRuleId": "1"
      }
    ]
  }
}
```

Error codes

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

7.5. DescribeAccessGroups

DescribeAccessGroups is used to return the permission group description.

Debugging

Alibaba Cloud provides [OpenAPI Explorer](#) to simplify API usage. You can use OpenAPI Explorer to search for APIs, call APIs, and dynamically generate SDK example code.

Request parameters

Parameter name	Type	Required	Example	Description
Action	String	Yes	DescribeAccessGroups	Operation interface name and system required parameter. Value: <i>DescribeAccessGroups</i> .
AccessGroupName	String	No	classic-test	Permission group name.

Parameter name	Type	Required	Example	Description
FileSystemType	String	No	standard	The type of the file system. Valid values: standard and extreme. Default value: standard.
PageSize	Integer	No	2	The number of permission groups contained on each page. The default value is 10.
PageNumber	Integer	No	1	The page number of the list (beginning from 1).

Response parameters

Parameter name	Type	example	Description
AccessGroups			Permission group description.
AccessGroupName	String	classic-test	Permission group name.
AccessGroupType	String	Classic	The type of the Permission group. Valid values: Vpc and Classic.
Description	String	This is a classic test access group~	Permission group description.
MountTargetCount	Integer	0	The number of mount points to which this permission group applies.
RuleCount	Integer	0	The number of permission rules contained in this permission group.
PageNumber	Integer	1	The page number of the list.
PageSize	Integer	2	The number of permission groups contained on each page.
RequestId	String	2514F97E-FFF0-4A1F-BF04-729CEAC64B6F	The ID of the request.

Parameter name	Type	example	Description
TotalCount	Integer	2	Total number of permission groups.

Example

- Request example

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=DescribeAccessGroups
&<Public Request Parameter>
...
```

- Response example

- XML example

```
<? xml version="1.0" encoding="UTF-8"? >
<DescribeAccessGroupsResponse>
  <PageNumber>1</PageNumber>
  <TotalCount>2</TotalCount>
  <PageSize>2</PageSize>
  <RequestId>3E569F4A-F743-490B-AC01-A8088F5C17A1</RequestId>
  <AccessGroups>
    <AccessGroup>
      <Description>DEFAULT ACCESS GROUP NAME</Description>
      <RuleCount>1</RuleCount>
      <AccessGroupType>Vpc</AccessGroupType>
      <AccessGroupName>DEFAULT_VPC_GROUP_NAME</AccessGroupName>
      <MountTargetCount>8</MountTargetCount>
    </AccessGroup>
    <AccessGroup>
      <Description>This is a classic test access group~</Description>
      <RuleCount>0</RuleCount>
      <AccessGroupType>Classic</AccessGroupType>
      <AccessGroupName>classic-test</AccessGroupName>
      <MountTargetCount>0</MountTargetCount>
    </AccessGroup>
  </AccessGroups>
</DescribeAccessGroupsResponse>
```

- JSON example

```
{
  "AccessGroups": {
    "AccessGroup": [
      {
        "RuleCount": 1,
        "AccessGroupType": "Vpc",
        "Description": "DEFAULT ACCESS GROUP NAME",
        "AccessGroupName": "DEFAULT_VPC_GROUP_NAME",
        "MountTargetCount": 8
      },
      {
        "RuleCount": 0,
        "AccessGroupType": "Classic",
        "Description": "This is a classic test access group~",
        "AccessGroupName": "classic-test",
        "MountTargetCount": 0
      }
    ]
  },
  "TotalCount": 2,
  "PageSize": 2,
  "RequestId": "2514F97E-FFF0-4A1F-BF04-729CEAC64B6F",
  "PageNumber": 1,
}
```

Error codes

For more information, see [Error codes](#).

7.6. DeleteAccessRule

DeleteAccessRule is used to delete existing permission rules.

Debugging

Alibaba Cloud provides [OpenAPI Explorer](#) to simplify API usage. You can use OpenAPI Explorer to search for APIs, call APIs, and dynamically generate SDK example code.

Request parameters

Parameter name	Type	Required	Example	Description
AccessGroupName	String	Yes	classic-test	Permission group name.
AccessRuleId	String	Yes	1	Permission Rule ID.
Action	String	Yes	DeleteAccessRule	Operation interface name and system required parameter. Value: <i>DeleteAccessRule</i> .
FileSystemType	String	No	standard	The type of the file system. Valid values: standard and extreme. Default value: standard.

Response parameters

Parameter name	Type	Example	Description
RequestId	String	5B4511A7-C99E-4071-AA8C-32E2529DA963	The ID of the request.

Example

- Request example

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=CreatAccessRule
&AccessGroupName=classic-test
&AccessRuleId=1
&<Public Request Parameter>
...
```

- Response example

- XML example

```
<? xml version="1.0" encoding="UTF-8"? >
<DeleteAccessRuleResponse>
  <RequestId>5B4511A7-C99E-4071-AA8C-32E2529DA963</RequestId>
</DeleteAccessRuleResponse>
```

- JSON example

```
{
  "RequestId": "5B4511A7-C99E-4071-AA8C-32E2529DA963",
}
```

Error codes

For more information, see [Error codes](#).

7.7. CreateAccessGroup

Creates a permission group.

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	CreateAccessGroup	The operation that you want to perform. Set the value to CreateAccessGroup.
AccessGroupName	String	Yes	classic-test	The name of the permission group. The name must be 3 to 64 characters in length and can contain letters, digits, underscores (_), and hyphens (-). The name must start with a letter. Default permission groups include DEFAULT_VPC_GROUP_NAME and DEFAULT_CLASSIC_GROUP_NAME. The name of a new permission group must be different from the default permission group names.
AccessGroupType	String	Yes	Classic	The type of the permission group. Valid values: VPC and Classic.

Parameter	Type	Required	Example	Description
Description	String	No	classicstaccessgroup	The description of the permission group. By default, the description is the same as the name of the permission group. The description must be 2 to 128 characters in length. The description must start with a letter and cannot start with http:// or https://. The description can contain letters, digits, colons (:), underscores (_), and hyphens (-).
FileSystemType	String	No	standard	The type of the file system. <ul style="list-style-type: none"> Valid values: standard and extreme. Default value: standard.

Response parameters

Parameter	Type	Example	Description
RequestId	String	55C5FFD6-BF99-41BD-9C66-FFF39189F4F8	The ID of the request.
AccessGroupName	String	classic-test	The name of the permission group.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=CreatAccessGroup
&AccessGroupName=classic-test
&AccessGroupType=Classic
&Description=classic test access group
&<Common request parameters>
```

Sample success responses

XML format

```
<CreateAccessGroupResponse>
  <RequestId>55C5FFD6-BF99-41BD-9C66-FFF39189F4F8</RequestId>
  <AccessGroupName>classic-test</AccessGroupName>
</CreateAccessGroupResponse>
```

JSON format

```
{
  "RequestId": "55C5FFD6-BF99-41BD-9C66-FFF39189F4F8",
  "AccessGroupName ": "classic-test"
}
```

Error codes

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

7.8. CreateAccessRule

You can call this operation to create permission rules.

Debugging

Alibaba Cloud provides [OpenAPI Explorer](#) to simplify API usage. You can use OpenAPI Explorer to search for APIs, call APIs, and dynamically generate SDK example code.

Request parameters

Parameter	Type	Required	Example	Description
AccessGroupName	String	Yes	classic-test	The name of the permission group.
SourceCidrIp	String	Yes	10.0.0.1/32	An IP address or a CIDR notation. For example, 12.1.1.1 or 13.1.1.1/25.
Action	String	Yes	CreateAccessRule	The operation that you want to perform. Set the value to CreateAccessRule.
FileSystemType	String	No	standard	The type of file system. Valid values: standard and extreme. Default value: standard.
Priority	Integer	No	1	The priority of the rule. Valid values: 1 to 100. Default value: 1.

Parameter	Type	Required	Example	Description
RWAccessType	String	No	RDWR	The type of permission. Valid values: RDWR and RDONLY. Default value: RDWR.
UserAccessType	String	No	no_squash	The type of user permission. Valid values: no_squash, root_squash, and all_squash. Default value: no_squash.

Response parameters

Parameter	Type	Example	Description
AccessRuleId	String	1	The rule ID.
RequestId	String	A323836B-5BC6-45A6-8048-60675C23EE2A	The request ID.

Examples

Sample request

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=CreatAccessRule
&AccessGroupName=classic-test
&SourceCidrIp=10.0.0.1/8
&<Common request parameters>
```

Sample success response

XML format

```
<CreateAccessRuleResponse>
  <AccessRuleId>1</AccessRuleId>
  <RequestId>A323836B-5BC6-45A6-8048-60675C23EE2A</RequestId>
</CreateAccessRuleResponse>
```

JSON format


```
{  
  "AccessRuleId": "1"  
  "RequestId": "A323836B-5BC6-45A6-8048-60675C23EE2A",  
}
```

Error codes

For more information, see [Error codes](#).

8.Snapshots for NAS Extreme

8.1. CreateSnapshot

Creates a snapshot.

Precautions

- You can create a maximum of 128 snapshots for each file system.
- The compute node on which a file system is mounted must be functioning. Otherwise, you cannot create a snapshot for the file system.
- You can create only one snapshot at a time.
- If the file system reaches the expiration time during snapshot creation, the file system is released and the created snapshot is deleted.
- A short-term decrease in I/O performance for a file system may occur when you create a snapshot for the file system. We recommend that you create snapshots during off-peak hours.
- A snapshot is a backup of a file system at a specific point in time. During snapshot creation, incremental data that is generated by the operating system will not be synchronized to the snapshot.
- Manual snapshots remain in a file system for persistent storage. We recommend that you delete snapshots that you do not need on a regular basis to reduce extra costs to your business.
- Manual snapshots are created for persistent storage. If your account is overdue for longer than 15 days, the manual snapshots will be deleted.

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	CreateSnapshot	The operation that you want to perform. If you use a custom HTTP URL or HTTPS URL to make an API request, you must specify the Action parameter. Set the value to CreateSnapshot.

Parameter	Type	Required	Example	Description
FileSystemId	String	Yes	Extreme-01dddfc	The ID of the file system.
SnapshotName	String	No	FinanceJoshua	The name of the snapshot. The name must be 2 to 128 characters in length. The name must start with a letter and cannot start with http:// or https://. The name can contain letters, digits, colons (:), underscores (_), and hyphens (-). To avoid duplicate names with automatic snapshots, the name cannot start with auto.
Description	String	No	FinanceDepet	The description of the snapshot. The description must be 2 to 256 characters in length. The description cannot start with http:// or https://. Default value: null.
RetentionDays	Integer	No	30	The retention period of the snapshot. Unit: days. Default value: -1. Valid values: <ul style="list-style-type: none"> -1: specifies that the snapshot is created for persistent storage. If the total number of snapshots exceeds the maximum limit, the snapshot is automatically deleted. 1~65536: specifies the number of days to retain the snapshot. If the retention period expires, the snapshot is automatically deleted.

Response parameters

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

Parameter	Type	Example	Description
SnapshotId	String	s-extreme-snapshotid1	The ID of the snapshot.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=CreateSnapshot
&FileSystemId=1ca404a348
&<Common request parameters>
...
```

Sample success responses

JSON format

```
{
  "RequestId": "AB78A546-A85A-44E7-B4A3-C0AAA77B89AF",
  "SnapshotId": "s-extreme-6tmsbas6ljhwhlkh9"
}
```

Error codes

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

8.2. CreateAutoSnapshotPolicy

You can call this operation to create an automatic snapshot policy. After a policy is created, you can call the `ApplyAutoSnapshotPolicy` operation to apply the policy to one or more file systems and call the `ModifyAutoSnapshotPolicy` operation to modify the policy.

Description

- You can use an Alibaba Cloud account to create a maximum of 100 automatic snapshot policies for one region.
- The creation of an automatic snapshot is canceled if the scheduled time for creating the snapshot is reached but the previous automatic snapshot is still being created. This may occur if the file system stores a large volume of data. For example, you have scheduled snapshots to be created at 09:00, 10:00, 11:00, and 12:00. A snapshot starts to be created at 09:00. The creation is completed at 10:20. The process of creating the snapshot requires 80 minutes because the file system has a large volume of data. A snapshot is not created at 10:00, and the next snapshot starts to be created at 11:00.
- A file system has a maximum of 64 snapshots. If the number of snapshots reaches the maximum, the earliest automatic snapshots are deleted. This rule does not apply to manual snapshots.
- A change of the snapshot retention period in an automatic snapshot policy only affects new

snapshots, and the retention period of snapshots that are already created is not updated.

- If you want to manually create a snapshot for a file system when an automatic snapshot is being created, you need to wait until the automatic snapshot is created.
- You cannot apply automatic snapshot policies to an abnormal file system.
- The format of an automatic snapshot name is `auto_yyyyMMdd_X`. `auto` indicates an automatic snapshot, which is used to differentiate between automatic and manual snapshots. `yyyyMMdd` indicates the date when the snapshot is created, where `yyyy` indicates the year, `MM` indicates the month, and `dd` indicates the day. `X` indicates a unique number to identify the automatic snapshot for the specified day. For example, `auto_20140418_1` indicates the first automatic snapshot created on April 18, 2014.

Debugging

Alibaba Cloud provides OpenAPI Explorer to simplify API usage. You can use OpenAPI Explorer to search for APIs, call APIs, and dynamically generate SDK example code.

Request parameters

Parameter	Type	Required	Example	Description
FileSystemType	String	Yes	extreme	The type of the file system. Valid value: extreme.
RepeatWeekdays	String	Yes	1,2,3	<p>The days of a week on which automatic snapshots are created. Valid values: 1 to 7. For example, 1 indicates Monday. You can specify multiple days if you want to create automatic snapshots on multiple days during the week.</p> <ul style="list-style-type: none"> • You can specify up to 7 days over a one week period. • Separate each day with a comma (,).

Parameter	Type	Required	Example	Description
TimePoints	String	Yes	0,1,...,23	The time at which automatic snapshots are created, measured in hours. Valid values: 0 to 23. The values indicate a total of 24 hours from 00:00 to 23:00. For example, 1 indicates 01:00. If you want to create multiple automatic snapshots on a specific day, you can specify a maximum of 24 hours.
Action	String	Yes	CreateAutoSnapshotPolicy	The operation that you want to perform. Set this parameter to CreateAutoSnapshotPolicy.
AutoSnapshotPolicyName	String	No	FinanceJoshua	The name of the automatic snapshot policy. The name must be 2 to 128 characters in length. It must start with a letter but cannot start with http:// or https://. It can contain letters, digits, colons (:), underscores (_), and hyphens (-). Default value: empty string.
RetentionDays	Integer	No	30	The retention period of automatic snapshots. Unit: days. Default value: -1. Valid values: <ul style="list-style-type: none"> -1: Automatic snapshots are permanently retained. 1-65536: Each automatic snapshot is retained for the specified number of days.

Response parameters

Parameter	Type	Example	Description
AutoSnapshotPolicyId	String	sp-extreme-233e6ylv0	The ID of the automatic snapshot policy.

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

Examples

Sample request

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=CreateAutoSnapshotPolicy
&FileSystemType=extreme
&RepeatWeekdays=1,2,3
&TimePoints=0,1,2,3,4
&<Common request parameters>
...
```

Sample success response

JSON format

```
{
  "RequestId": "12FA778B-C8D3-4D2B-88AD-C10ED0326C57",
  "AutoSnapshotPolicyId": "sp-extreme-6i0brwewjt0gfyLh0"
}
```

Error codes

[View error codes.](#)

8.3. ApplyAutoSnapshotPolicy

You can call this operation to apply an automatic snapshot policy to one or more file systems. If an automatic snapshot policy is applied to a file system, you can call this operation to change the policy.

Description

- You can only apply one automatic snapshot policy to each file system.
- An automatic snapshot policy can be applied to multiple file systems.

Debugging

Alibaba Cloud provides OpenAPI Explorer to simplify API usage. You can use OpenAPI Explorer to search for APIs, call APIs, and dynamically generate SDK example code.

Request parameters

Parameter	Type	Required	Example	Description
AutoSnapshotPolicyId	String	Yes	sp-extreme-233e6ylv0	The ID of the automatic snapshot policy.
FileSystemIds	String	Yes	extreme-233e6ylv0,extreme-23vbpbi03,extreme-23vasz3ds	The IDs of the file systems. You can specify a maximum of 100 file system IDs at a time. You must separate each ID with a comma (,).
Action	String	Yes	ApplyAutoSnapshotPolicy	The operation that you want to perform. Set this parameter to ApplyAutoSnapshotPolicy.

Response parameters

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

Examples

Sample request

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=ApplyAutoSnapshotPolicy
&AutoSnapshotPolicyId=sp-extreme-6i0brwewjt0gfyh0
&FileSystemIds=extreme-xxx
&<Common request parameters>
...
```

Sample success response

JSON format

```
{
  "RequestId": "12FA778B-C8D3-4D2B-88AD-C10ED0326C57"
}
```

Error codes

[View error codes.](#)

8.4. DeleteSnapshot

Deletes a snapshot. If you call this operation to delete a snapshot that is being created, the task of creating the snapshot is canceled.

Precautions

If the specified snapshot ID does not exist, the request is disregarded.

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	DeleteSnapshot	The operation that you want to perform. Set the value to DeleteSnapshot.
SnapshotId	String	Yes	s-extreme-snapshotid1	The ID of the snapshot.

Response parameters

Parameter	Type	Example	Description
RequestId	String	473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E	The ID of the request. This parameter is returned regardless of whether the operation is successful.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=DeleteSnapshot
&SnapshotId=s-extreme-6tmsbas6ljhwhlk9
& <Common request parameters>
...
```

Sample success responses

JSON format

```
{
  "RequestId": "12FA778B-C8D3-4D2B-88AD-C10ED0326C57"
}
```

Error codes

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

8.5. CancelAutoSnapshotPolicy

Removes automatic snapshot policies from file systems.

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	CancelAutoSnapshotPolicy	The operation that you want to perform. Set the value to CancelAutoSnapshotPolicy.
FileSystemIds	String	Yes	extreme-233e6ylv0,extreme-23vbpbi03,extreme-23vasz3ds	The IDs of file systems. You can specify a maximum of 100 IDs. If you want to remove an automatic snapshot policy from multiple file systems, separate multiple IDs with commas (,).

Response parameters

Parameter	Type	Example	Description
RequestId	String	473469C7-AA6F-4DC5-B3DB-A3DCODE3C83E	The ID of the request. This parameter is returned regardless of whether the operation is successful.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=CancelAutoSnapshotPolicy
&FileSystemIds=extreme-xxx
&<Common request parameters>
...
```

Sample success responses

JSON format

```
{
  "RequestId": "12FA778B-C8D3-4D2B-88AD-C10ED0326C57"
}
```

Error codes

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

8.6. DeleteAutoSnapshotPolicy

Deletes an automatic snapshot policy. You can apply an automatic snapshot policy to multiple file systems. After you delete the automatic snapshot policy, the associated file systems will no longer apply the automatic snapshot policy.

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	DeleteAutoSnapshotPolicy	The operation that you want to perform. Set the value to DeleteAutoSnapshotPolicy.
AutoSnapshotPolicyId	String	Yes	sp-extreme-233e6ylv0	The ID of the automatic snapshot policy. You can call the DescribeAutoSnapshotPolicies operation to view available automatic snapshot policies.

Response parameters

Parameter	Type	Example	Description
RequestId	String	473469C7-AA6F-4DC5-B3DB-A3DCODE3C83E	The ID of the request. This parameter is returned regardless of whether the operation is successful.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=DeleteAutoSnapshotPolicy
&AutoSnapshotPolicyId=sp-extreme-6i0brwewjt0gfylh0
& <Common request parameters>
...
```

Sample success responses

JSON format

```
{
  "RequestId": "12FA778B-C8D3-4D2B-88AD-C10ED0326C57"
}
```

Error codes

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

8.7. DescribeSnapshots

Queries all snapshots of a file system.

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	DescribeSnapshots	The operation that you want to perform. Set the value to DescribeSnapshots.
FileSystemType	String	Yes	extreme	The type of the file system. Set the value to extreme.
FileSystemId	String	No	extreme-22f****	The ID of the file system.

Parameter	Type	Required	Example	Description
SnapshotIds	String	No	s-extreme-67pxwk9aevrkr***,s-extreme-snapsho****,s-extreme-6tmsbas6ljhwh**	The IDs of the snapshots. You can specify a maximum of 100 IDs. You must separate snapshot IDs with commas (,).
SnapshotName	String	No	FinanceJoshua	The name of the snapshot.
SnapshotType	String	No	all	The type of the snapshot. Default value: all. Valid values: <ul style="list-style-type: none"> • auto: automatic snapshot • user: manual snapshot • all: all snapshot types
Status	String	No	all	The status of the snapshot. Default value: all. Valid values: <ul style="list-style-type: none"> • progressing: The snapshot is being created. • accomplished: The snapshot is created. • failed: The snapshot fails to be created. • all: All snapshot statuses.
PageSize	Integer	No	10	The number of entries to return on each page. Maximum value: 100. Default value: 10.
PageNumber	Integer	No	1	The number of the page to return. Pages start from page 1. Default value: 1.

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.

Parameter	Type	Example	Description
RequestId	String	473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E	The ID of the request.
Snapshots	Array		The information of the snapshots.
Snapshot			
CreateTime	String	2014-07-24T13:00:52Z	The time when the snapshot was created. The time follows the ISO 8601 standard in the yyyy-MM-ddThh:mmZ format. The time is displayed in UTC.
Description	String	FinanceDept	The description of the snapshot.
EncryptType	Integer	1	Indicates whether data that is stored in the file system is encrypted. <ul style="list-style-type: none"> 0: The data is not encrypted. 1: The data is encrypted.
Progress	String	100	The progress of the snapshot creation task. Unit: percent.
RemainTime	Integer	38	The remaining time until the snapshot is created. Unit: seconds.
RetentionDays	Integer	30	The number of days for which an automatic snapshot is retained.
SnapshotId	String	s-extreme-snapsho****	The ID of the snapshot.
SnapshotName	String	FinanceJoshua	The name of the snapshot. If you specify a snapshot name when you call this operation, this parameter is returned.
SourceFileSystemId	String	extreme-012****	The ID of the source file system. If the source file system is deleted, this parameter remains unchanged.
SourceFileSystemSize	Long	2000	The capacity of the source file system. Unit: GB.

Parameter	Type	Example	Description
SourceFileSystemVersion	String	1	The version of the source file system.
Status	String	accomplished	The status of the snapshot. Valid values: progressing, accomplished, and failed.
TotalCount	Integer	36	The total number of snapshots.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=DescribeSnapshots
&FileSystemType=extreme
&<Common request parameters>
...
```

Sample success responses

XML format

```
<TotalCount>36</TotalCount>
<RequestId>473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E</RequestId>
<PageSize>10</PageSize>
<PageNumber>1</PageNumber>
<Snapshots>
  <Snapshot>
    <Status>accomplished</Status>
    <SnapshotId>s-extreme-snapsho****</SnapshotId>
    <Progress>100</Progress>
    <SourceFileSystemSize>2000</SourceFileSystemSize>
    <Description>FinanceDept</Description>
    <EncryptType>1</EncryptType>
    <SourceFileSystemVersion>1</SourceFileSystemVersion>
    <CreateTime>2014-07-24T13:00:52Z</CreateTime>
    <SourceFileSystemId>extreme-012****</SourceFileSystemId>
    <RetentionDays>30</RetentionDays>
    <RemainTime>38</RemainTime>
    <SnapshotName>FinanceJoshua</SnapshotName>
  </Snapshot>
</Snapshots>
```

JSON format

```
{
  "TotalCount": 36,
  "RequestId": "473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E",
  "PageSize": 10,
  "PageNumber": 1,
  "Snapshots": {
    "Snapshot": {
      "Status": "accomplished",
      "SnapshotId": "s-extreme-snapsho****",
      "Progress": 100,
      "SourceFileSystemSize": 2000,
      "Description": "FinanceDept",
      "EncryptType": 1,
      "SourceFileSystemVersion": 1,
      "CreateTime": "2014-07-24T13:00:52Z",
      "SourceFileSystemId": "extreme-012****",
      "RetentionDays": 30,
      "RemainTime": 38,
      "SnapshotName": "FinanceJoshua"
    }
  }
}
```

Error codes

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

8.8. DescribeAutoSnapshotPolicies

Queries the details of automatic snapshot policies.

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
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Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeAutoSnapshotPolicies	The operation that you want to perform. Set the value to DescribeAutoSnapshotPolicies.
FileSystemType	String	Yes	extreme	The type of file system. Valid value: extreme.
AutoSnapshotPolicyId	String	No	sp-extreme-233e6ylv0	The ID of the automatic snapshot policy.
PageSize	Integer	No	10	The number of entries to return on each page. <ul style="list-style-type: none"> • Maximum value: 100. • Default value: 10.
PageNumber	Integer	No	1	The number of the page to return. <ul style="list-style-type: none"> • Pages start from page 1. • Default value: 1.

Response parameters

Parameter	Type	Example	Description
RequestId	String	473469C7-AA6F-4DC5-B3DB-A3DCODE3C83E	The ID of the request.
TotalCount	Integer	2	The total number of automatic snapshot policies.
PageSize	Integer	10	The number of entries returned per page.
PageNumber	Integer	1	The page number of the returned page.
AutoSnapshotPolicies	Array		The IDs of automatic snapshot policies.
AutoSnapshotPolicyId	String	FinanceJoshua	The ID of each automatic snapshot policy.

Parameter	Type	Example	Description
AutoSnapshotPolicyName	String	p-23f2i9s4t	The name of the automatic snapshot policy.
CreateTime	String	2014-04-21T12:08:52Z	The time when the automatic snapshot policy was created. The time follows the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time is displayed in UTC.
FileSystemNums	Integer	2	The number of file systems to which the automatic snapshot policy applies.
RegionId	String	cn-hangzhou	The ID of the region to which the automatic snapshot policy belongs.
RepeatWeekdays	String	1,5	The days when the automatic snapshot policy recurs within a week. Unit: days. Valid values: 1 to 7. For example, 1 indicates Monday.
RetentionDays	Integer	30	The retention period of an automatic snapshot. Unit: days. Default value: -1. Valid values: <ul style="list-style-type: none"> -1: specifies that an automatic snapshot is created for persistent storage. If the number of automatic snapshots exceeds the maximum limit, the automatic snapshot is automatically deleted. 1-65536: specifies the number of days to retain an automatic snapshot. If the retention period expires, the automatic snapshot is automatically deleted.
Status	String	Available	The status of the snapshot. Valid values: Creating and Available.

Parameter	Type	Example	Description
TimePoints	String	4,19	The points in time when the automatic snapshot policy recurs. Unit: points in time. Valid values: 0 to 23, representing 24 points in time that range from 00:00 to 23:00. For example, 1 indicates 01:00. Unit: points in time. You can specify a maximum of 24 points in time. Separate multiple points in time with commas (,).

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=DescribeAutoSnapshotPolicies
&FileSystemType=extreme
& <Common request parameters>
...
```

Sample success responses

JSON format

```
{
  "PageNumber": 1,
  "TotalCount": 1,
  "PageSize": 10,
  "AutoSnapshotPolicies": {
    "AutoSnapshotPolicy": [
      {
        "AutoSnapshotPolicyName": "",
        "TimePoints": "0,1,2",
        "RetentionDays": -1,
        "FileSystemNums": 0,
        "AutoSnapshotPolicyId": "sp-extreme-6i0brwewjt0gfylh0",
        "RepeatWeekdays": "1,2"
      }
    ]
  },
  "RequestId": "B208E2EA-E9CC-40E3-BE0B-4FFDDD9CB54B"
}
```

Error codes

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

8.9. ModifyAutoSnapshotPolicy

Modifies an automatic snapshot policy. After you modify an automatic snapshot policy, the newest automatic snapshot policy takes precedence and is applied to all linked file systems.

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	ModifyAutoSnapshotPolicy	The operation that you want to perform. Set the value to ModifyAutoSnapshotPolicy.
AutoSnapshotPolicyId	String	Yes	sp-extreme-233e6ylv0	The ID of the automatic snapshot policy. You can call the DescribeAutoSnapshotPolicies operation to view available automatic snapshot policies.
AutoSnapshotPolicyName	String	No	FinanceJoshua	The name of the automatic snapshot policy. If you do not want to change the name, you can leave the parameter empty.
RepeatWeekdays	String	No	1,7	The days when the automatic snapshot policy recurs within a week. Unit: days. Valid values: 1 to 7. For example, 1 indicates Monday. You can specify multiple days from Monday to Sunday. <ul style="list-style-type: none"> You can specify a maximum of seven days. Separate multiple days with commas (,).

Parameter	Type	Required	Example	Description
RetentionDays	Integer	No	30	<p>The retention period of an automatic snapshot. Unit: days. Default value: -1. Valid values:</p> <ul style="list-style-type: none"> -1: specifies that an automatic snapshot is created for persistent storage. 1-65536: specifies the number of days to retain an automatic snapshot.
TimePoints	String	No	0,1	<p>The points in time when the automatic snapshot policy recurs. Unit: points in time. Valid values: 0 to 23, representing 24 points in time that range from 00:00 to 23:00. For example, 1 indicates 01:00. If you want to create multiple automatic snapshots a day, you can specify multiple points in time.</p> <ul style="list-style-type: none"> You can specify a maximum of 24 points in time. Separate multiple points in time with commas (,).

Response parameters

Parameter	Type	Example	Description
RequestId	String	473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E	The ID of the request. The request ID will be returned regardless of whether the API operation is successful.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=ModifyAutoSnapshotPolicy
&AutoSnapshotPolicyId=sp-extreme-6i0brwewjt0gfyh0
&AutoSnapshotPolicyName=xoxo
&<Common request parameters>
...
```

Sample success responses

```
JSON &nbsp;format
```

```
{
  "RequestId": "12FA778B-C8D3-4D2B-88AD-C10ED0326C57"
}
```

Error codes

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

8.10. ResetFileSystem

Restores a file system from a snapshot.

Precautions

- The file system must be in the Running state.
- To restore a file system, you must use a snapshot that is created for the file system.

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	ResetFileSystem	The operation that you want to perform. Set the value to ResetFileSystem.
FileSystemId	String	Yes	extreme-012ddfsdf	The ID of the file system.
SnapshotId	String	Yes	s-extreme-snapshotid1	The ID of the snapshot.

Response parameters

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

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=ResetFileSystem
&FileSystemId=extreme-xoxo
&SnapshotId=s-extreme-67pxwk9aevrkrwwj8
& <Common request parameters>
...
```

Sample success responses

JSON format

```
{
  "RequestId": "12FA778B-C8D3-4D2B-88AD-C10ED0326C57"
}
```

Error codes

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

8.11. DescribeAutoSnapshotTasks

Queries the details of automatic snapshot tasks.

Description

The API operation is available only for NAS Extreme file systems.

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	DescribeAutoSnapshotTasks	The operation that you want to perform. Set the value to DescribeAutoSnapshotTasks.
FileSystemType	String	Yes	extreme	The type of file system. Valid value: extreme.

Parameter	Type	Required	Example	Description
FileSystemIds	String	No	extreme-233e6ylv0,extreme-23vbpbi03,extreme-23vasz3ds	The IDs of file systems. You can specify a maximum of 100 IDs. If you want to query the snapshots of multiple file systems, you must separate multiple IDs with commas (,).
AutoSnapshotPolicyIds	String	No	sp-extreme-233e6ylv0,sp-extreme-233e6ylv1,sp-extreme-233e6ylv2	The IDs of automatic snapshot policies. You can specify a maximum of 100 IDs. If you want to query the tasks of multiple automatic snapshot policies, you must separate multiple IDs with commas (,).
PageSize	Integer	No	1	The number of entries to return on each page. <ul style="list-style-type: none"> Pages start from page 1. Default value: 1.
PageNumber	Integer	No	100	The number of the page to return. <ul style="list-style-type: none"> Maximum value: 100. Default value: 10.

Response parameters

Parameter	Type	Example	Description
RequestId	String	473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E	The ID of the request.
TotalCount	Integer	9	The total number of automatic snapshot tasks.
PageSize	Integer	100	The number of entries returned per page.
PageNumber	Integer	1	The page number of the returned page.

Parameter	Type	Example	Description
AutoSnapshotTasks	Array		The details of automatic snapshot tasks.
SourceFileSystemId	String	extreme-233e6ylv0	The ID of each file system.
AutoSnapshotPolicyId	String	sp-extreme-233e6ylv0	The ID of each automatic snapshot policy.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DescribeAutoSnapshotTasks
&FileSystemType=extreme
&<Common request parameters>
```

Sample success responses

XML format

```
<PageNumber>1</PageNumber>
<TotalCount>1</TotalCount>
<AutoSnapshotTasks>
  <AutoSnapshotTask>
    <SourceFileSystemId>extreme-032b5936</SourceFileSystemId>
    <AutoSnapshotPolicyId>sp-extreme-03v0xyq4k4u8h1238r</AutoSnapshotPolicyId>
  </AutoSnapshotTask>
</AutoSnapshotTasks>
<PageSize>10</PageSize>
<RequestId>D901BDD5-2D6B-4479-A464-1FCA13F737FC</RequestId>
```

JSON format

```
{
  "PageNumber": 1,
  "TotalCount": 1,
  "AutoSnapshotTasks": {
    "AutoSnapshotTask": [
      {
        "SourceFileSystemId": "extreme-233e6ylv0",
        "AutoSnapshotPolicyId": "sp-extreme-233e6ylv0"
      }
    ]
  },
  "PageSize": 10,
  "RequestId": "D901BDD5-2D6B-4479-A464-1FCA13F737FC"
}
```

Error codes

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

9.Tags

9.1. TagResources

Creates and adds tags to a specified resource list.

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	03e08484f0	The ID of the resource. Valid values of N: 1 to 50.
ResourceType	String	Yes	filesystem	The type of the resource. For example, set the value to filesystem.
Tag.N.Key	String	Yes	nastest	The key of the tag. The value cannot be empty. Notes: <ul style="list-style-type: none"> Valid values of N: 1 to 20. The value can be a maximum of 128 characters in length. It cannot start with <code>aliyun</code> or <code>acs:</code>. It cannot contain <code>http://</code> or <code>https://</code>.

Parameter	Type	Required	Example	Description
Tag.N.Value	String	Yes	filetest	<p>The value of the tag. Notes:</p> <ul style="list-style-type: none"> Valid values of N: 1 to 20. The value can be a maximum of 128 characters in length. It cannot start with <code>aliyun</code> or <code>acs:</code>. It cannot contain <code>http://</code> or <code>https://</code>.

Response parameters

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

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=TagResources
&ResourceId.1=03e08484f0
&ResourceType=filesystem
&Tag.1.Key=nastest
&Tag.1.Value=filetest
&<Common request parameters>
```

Sample success responses

XML format

```
<TagResorucesResponse>
  <RequestId>2D69A58F-345C-4FDE-88E4-BF5189484043</RequestId>
</TagResourcesResponse>
```

JSON format

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

Error codes

HttpCode	Error code	Error message	Description
400	NumberExceed.ResourceIds	The maximum number of ResourceIds is exceeded. The maximum is 50.	The error message returned because the number of resource IDs has exceeded the upper limit. You can enter a maximum of 50 resource IDs.
400	MissingParameter.ResourceIds	You must specify ResourceIds.	The error message returned because the ResourceId parameter is not specified.
400	Duplicate.ResourceId	The request contains duplicated ResourceId.	The error message returned because the resource ID already exists.
400	NumberExceed.Tags	The maximum number of Tags is exceeded. The maximum is 20.	The error message returned because the number of tags has exceeded the upper limit. You can create a maximum of 20 tags.
400	Duplicate.TagKey	The Tag.N.Key contains a duplicated key.	The error message returned because the value of the TagKey parameter already exists.
400	InvalidResourceId.NotFound	The ResourceId does not exist.	The error message returned because the ResourceId parameter does not exist.
400	InvalidParameter.TagKey	The specified Tag.n.Key is invalid.	The error message returned because the value of the TagKey parameter is invalid.
400	InvalidParameter.TagValue	The specified Tag.n.Value is invalid.	The error message returned because the value of the TagValue parameter is invalid.
403	OperationDenied.KeyValueNotNull	The key value cannot be null.	The error message returned because the Tag.N.Value parameter is not specified.
400	CustomTag.NumberExceed	The maximum number of system tags for each resource is 20.	The error message returned because the number of added tags has exceeded the upper limit. You can add a maximum of 20 tags to each resource.

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

9.2. ListTagResources

Queries the tags that are added to a specified resource.

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.
ResourceType	String	Yes	filesystem	The type of the resource. For example, set the value to filesystem.
Resourceid.N	RepeatList	No	03e08484f0	The ID of the resource. Valid values of N: 1 to 50.
Tag.N.Key	String	No	nastest	The key of the tag. The value cannot be empty. Notes: <ul style="list-style-type: none"> Valid values of N: 1 to 20. The value can be a maximum of 128 characters in length. It cannot start with <code>aliyun</code> or <code>acs:</code>. It cannot contain <code>http://</code> or <code>https://</code>.
Tag.N.Value	String	No	filetest	The value of the tag. Notes: <ul style="list-style-type: none"> Valid values of N: 1 to 20. The value can be a maximum of 128 characters in length. It cannot start with <code>aliyun</code> or <code>acs:</code>. It cannot contain <code>http://</code> or <code>https://</code>.
NextToken	String	No	None	The token for the next query.

Response parameters

Parameter	Type	Example	Description
NextToken	String	None	The token for the next query. If the value is null, no queries are performed after the current query.
RequestId	String	2D69A58F-345C-4FDE-88E4-BF5189484043	The ID of the request.
TagResources	Array of TagResource		The list of resources.
TagResource			
ResourceId	String	i-2zebd226fxed6h4ia dhe	The ID of the resource.
ResourceType	String	filesystem	The type of the resource.
TagKey	String	test1	The key of the tag.
TagValue	String	test	The value of the tag.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=ListTagResources
&ResourceType=ALIYUN::NAS::FILESYSTEM
&<Common request parameters>
```

Sample success responses

XML format

```
<ListTagResourcesResponse>
  <RequestId>2D69A58F-345C-4FDE-88E4-BF5189484043</RequestId>
  <NextToken>1d2db86sca4384811e0b5e8707e68181f</NextToken>
  <TagResources>
    <TagResource>
      <ResourceId>i-2zebd226fxed6h4iadhe</ResourceId>
      <ResourceType>instance</ResourceType>
      <TagKey>env</TagKey>
      <TagValue>product</TagValue>
    </TagResource>
    <TagResource>
      <ResourceId>i-2zebd226fxed6h4iadhe</ResourceId>
      <ResourceType>instance</ResourceType>
      <TagKey>owner</TagKey>
      <TagValue>zhangsan</TagValue>
    </TagResource>
  </TagResources>
</ListTagResourcesResponse>
```

JSON format


```

{
  "ListTagResourcesResponse": {
    "RequestId": "2D69A58F-345C-4FDE-88E4-BF5189484043",
    "NextToken": "1d2db86sca4384811e0b5e8707e68181f",
    "TagResources": {
      "TagResource": [
        {
          "ResourceId": "i-2zebd226fxed6h4iadhe",
          "ResourceType": "instance",
          "TagKey": "env",
          "TagValue": "product"
        },
        {
          "ResourceId": "i-2zebd226fxed6h4iadhe",
          "ResourceType": "instance",
          "TagKey": "owner",
          "TagValue": "zhangsan"
        }
      ]
    }
  }
}

```

Error codes

HttpCode	Error code	Error message	Description
400	MissingParameter.ResourceIdOrTag	Either ResourceId or Tag must be specified.	This error message returned because neither of the ResourceId and TagKey parameters is specified.
400	InvalidNextToken	The NextToken is invalid.	The error message returned because the value of the NextToken parameter is invalid.
400	NumberExceed.ResourceIds	The maximum number of ResourceIds is exceeded. The maximum is 50.	The error message returned because the number of resource IDs has exceeded the upper limit. You can enter a maximum of 50 resource IDs.

HttpCode	Error code	Error message	Description
400	MissingParameter.ResourceIds	You must specify ResourceIds.	The error message returned because the ResourceId parameter is not specified.
400	Duplicate.ResourceId	The request contains duplicated ResourceId.	The error message returned because the resource ID already exists.
400	NumberExceed.Tags	The maximum number of Tags is exceeded. The maximum is 20.	The error message returned because the number of tags has exceeded the upper limit. You can create a maximum of 20 tags.
400	Duplicate.TagKey	The Tag.N.Key contains a duplicated key.	The error message returned because the value of the TagKey parameter already exists.
400	InvalidResourceId.NotFound	The ResourceId does not exist.	The error message returned because the ResourceId parameter does not exist.
400	InvalidParameter.TagKey	The specified Tag.n.Key is invalid.	The error message returned because the value of the TagKey parameter is invalid.
400	InvalidParameter.TagValue	The specified Tag.n.Value is invalid.	The error message returned because the value of the TagValue parameter is invalid.

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

9.3. UntagResources

Removes tags from a specified resource.

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.

Parameter	Type	Required	Example	Description
ResourceId.N	RepeatList	Yes	03e08484f0	The ID of the resource. Valid values of N: 1 to 50.
ResourceType	String	Yes	filesystem	The type of the resource. For example, set the value to filesystem.
TagKey.N	RepeatList	No	nastest	The key of the tag. Valid values of N: 1 to 20.
All	Boolean	No	false	<p>Specifies whether to remove all tags. This parameter takes effect only when the TagKey.N parameter is not specified. Valid values:</p> <ul style="list-style-type: none"> • true: removes all tags from their resources. No operations are performed on the resources which do not have tags. Then a success response is returned. • false: performs no operations. A success response is returned.

Response parameters

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

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=UntagResources
&ResourceId.1=03e08484f0
&ResourceType=ALIYUN::NAS::FILESYSTEM
&<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.Resourcelds	The maximum number of Resourcelds is exceeded. The maximum is 50.	The error message returned because the number of resource IDs has exceeded the upper limit. You can enter a maximum of 50 resource IDs.
400	Duplicate.ResourceId	The request contains duplicated Resourceld.	The error message returned because the resource ID already exists.
400	MissingParameter.Resourcelds	You must specify Resourcelds.	The error message returned because the Resourceld parameter is not specified.
400	InvalidParameter.TagKey	The specified Tag.n.Key is invalid.	The error message returned because the value of the TagKey parameter is invalid.
400	InvalidParameter.TagValue	The specified Tag.n.Value is invalid.	The error message returned because the value of the TagValue parameter is invalid.
400	Duplicate.TagKey	The Tag.N.Key contains a duplicated key.	The error message returned because the value of the TagKey parameter already exists.

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

10.Lifecycle management

10.1. CreateLifecyclePolicy

Creates a lifecycle management policy.

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	CreateLifecyclePolicy	The operation that you want to perform. Set the value to CreateLifecyclePolicy.
FileSystemId	String	Yes	31a8e4****	The ID of the file system.
LifecyclePolicyName	String	Yes	lifecyclepolicy1	The name of the lifecycle management policy.
LifecycleRuleName	String	Yes	DEFAULT_ATIME_14	The rule in the lifecycle management policy. Valid values: <ul style="list-style-type: none"> DEFAULT_ATIME_14: specifies the files that were not accessed in the last 14 days. DEFAULT_ATIME_30: specifies the files that were not accessed in the last 30 days. DEFAULT_ATIME_60: specifies the files that were not accessed in the last 60 days. DEFAULT_ATIME_90: specifies the files that were not accessed in the last 90 days.
Path	String	Yes	/pathway/to/folder	The absolute path of the directory to which the policy is applied. The value must start with a forward slash (/). The value must be an existing path in the mount target.

Parameter	Type	Required	Example	Description
StorageType	String	Yes	InfrequentAccess	The storage class of the file system. Default value: InfrequentAccess.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BC7C825C-5F65-4B56-BEF6-98C56C7C546E	The ID of the request.
Success	Boolean	true	The status of the request. Valid values: true and false.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=CreateLifecyclePolicy
&FileSystemId=31a8e4****
&LifecyclePolicyName=lifecyclepolicy1
&LifecycleRuleName=DEFAULT_ATIME_14
&Path=/pathway/to/folder
&StorageType=InfrequentAccess
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>BC7C825C-5F65-4B56-BEF6-98C56C7C546E</RequestId>
<Success>>true</Success>
```

JSON format

```
{
  "RequestId": "BC7C825C-5F65-4B56-BEF6-98C56C7C546E",
  "Success": true
}
```

Error codes

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

10.2. ModifyLifecyclePolicy

Modifies a lifecycle management policy.

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	ModifyLifecyclePolicy	The operation that you want to perform. Set the value to ModifyLifecyclePolicy.
FileSystemId	String	Yes	31a8e4****	The ID of the file system.
LifecyclePolicyName	String	Yes	lifecyclepolicy1	The name of the lifecycle management policy.
LifecycleRuleName	String	Yes	DEFAULT_ATIME_14	The rule in the lifecycle management policy. Valid values: <ul style="list-style-type: none"> DEFAULT_ATIME_14: specifies the files that were not accessed in the last 14 days. DEFAULT_ATIME_30: specifies the files that were not accessed in the last 30 days. DEFAULT_ATIME_60: specifies the files that were not accessed in the last 60 days. DEFAULT_ATIME_90: specifies the files that were not accessed in the last 90 days.
Path	String	Yes	/pathway/to/folder	The absolute path of the directory to which the policy is applied. The value must start with a forward slash (/). The value must be an existing path in the mount target.

Parameter	Type	Required	Example	Description
StorageType	String	Yes	InfrequentAccess	The storage class of the file system. Default value: InfrequentAccess.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BC7C825C-5F65-4B56-BEF6-98C56C7C546E	The ID of the request.
Success	Boolean	true	The status of the request. Valid values: true and false.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=ModifyLifecyclePolicy
&FileSystemId=31a8e4****
&LifecyclePolicyName=lifecyclepolicy1
&LifecycleRuleName=DEFAULT_ATIME_14
&Path=/pathway/to/folder
&Recursive=true
&StorageType=InfrequentAccess
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>BC7C825C-5F65-4B56-BEF6-98C56C7C546E</RequestId>
<Success>>true</Success>
```

JSON format

```
{
  "RequestId": "BC7C825C-5F65-4B56-BEF6-98C56C7C546E",
  "Success": true
}
```


Error codes

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

10.3. DeleteLifecyclePolicy

Deletes a lifecycle policy.

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	DeleteLifecyclePolicy	The operation that you want to perform. Set the value to DeleteLifecyclePolicy.
FileSystemId	String	Yes	31a8e4****	The ID of the file system.
LifecyclePolicyName	String	Yes	lifecyclepolicy1	The name of the lifecycle policy.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BC7C825C-5F65-4B56-BEF6-98C56C7C546E	The ID of the request.
Success	Boolean	true	Indicates whether the operation was successful. Valid values: true and false.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=DeleteLifecyclePolicy
&FileSystemId=31a8e4****
&LifecyclePolicyName=lifecyclepolicy1
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>BC7C825C-5F65-4B56-BEF6-98C56C7C546E</RequestId>
<Success>>true</Success>
```

JSON format

```
{
  "RequestId": "BC7C825C-5F65-4B56-BEF6-98C56C7C546E",
  "Success": true
}
```

Error codes

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

10.4. DescribeLifecyclePolicies

Queries the list of lifecycle management policies.

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	DescribeLifecyclePolicies	The operation that you want to perform. Set the value to DescribeLifecyclePolicies.
FileSystemId	String	Yes	31a8e4****	The ID of the file system.

Parameter	Type	Required	Example	Description
PageSize	Integer	No	10	The number of entries to return on each page.
PageNumber	Integer	No	1	The number of the page to return.

Response parameters

Parameter	Type	Example	Description
LifecyclePolicies	Array		The list of lifecycle management policies.
CreateTime	String	2019-10-30T10:08:08Z	The time when the policy was created. The time follows the ISO8601 standard in the yyyy-MM-ddTHH:mm:ssZ format.
FileSystemId	String	31a8e4****	The ID of the file system.
LifecyclePolicyName	String	lifecyclepolicy1	The name of the lifecycle management policy.
LifecycleRuleName	String	DEFAULT_ATIME_14	The rule in the lifecycle management policy. Valid values: <ul style="list-style-type: none"> DEFAULT_ATIME_14: specifies the files that were not accessed in the last 14 days. DEFAULT_ATIME_30: specifies the files that were not accessed in the last 30 days. DEFAULT_ATIME_60: specifies the files that were not accessed in the last 60 days. DEFAULT_ATIME_90: specifies the files that were not accessed in the last 90 days.

Parameter	Type	Example	Description
Path	String	/pathway/to/fo lder	The absolute path of the directory to which the policy is applied. The value must start with a forward slash (/). The value must be an existing path in the mount target.
StorageType	String	InfrequentAccess	The storage class of the file system. Default value: InfrequentAccess.
PageNumber	Integer	10	The page number of the returned page.
PageSize	Integer	1	The number of entries returned per page.
RequestId	String	BC7C825C-5F65- 4B56-BEF6- 98C56C7C546E	The ID of the request.
TotalCount	Integer	10	The total number of the lifecycle management policies.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=DescribeLifecyclePolicies
&FileSystemId=31a8e4****
&<Common request parameters>
```

Sample success responses

XML format

```
<TotalCount>10</TotalCount>
<RequestId>BC7C825C-5F65-4B56-BEF6-98C56C7C546E</RequestId>
<PageSize>1</PageSize>
<PageNumber>10</PageNumber>
<LifecyclePolicies>
  <Path>/pathway/to/folder</Path>
  <LifecyclePolicyName>lifecyclepolicy1</LifecyclePolicyName>
  <StorageType>InfrequentAccess</StorageType>
  <LifecycleRuleName>DEFAULT_ATIME_14</LifecycleRuleName>
  <CreateTime>2019-10-30T10:08:08Z</CreateTime>
  <FileSystemId>31a8e4****</FileSystemId>
</LifecyclePolicies>
```

JSON format

```
{
  "TotalCount": 10,
  "RequestId": "BC7C825C-5F65-4B56-BEF6-98C56C7C546E",
  "PageSize": 1,
  "PageNumber": 10,
  "LifecyclePolicies": [{
    "Path": "/pathway/to/folder",
    "LifecyclePolicyName": "lifecyclepolicy1",
    "StorageType": "InfrequentAccess",
    "LifecycleRuleName": "DEFAULT_ATIME_14",
    "CreateTime": "2019-10-30T10:08:08Z",
    "FileSystemId": "31a8e4****"
  }]
}
```

Error codes

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

11.LDAP

11.1. DescribeLDAPConfig

Queries the details of Lightweight Directory Access Protocol (LDAP).

Description

The API operation is available only for Cloud Paralleled File System (CPFS) file systems.

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	DescribeLDAPConfig	The operation that you want to perform. Set the value to DescribeLDAPConfig.
FileSystemId	String	Yes	1ca404a348	The ID of the file system.

Response parameters

Parameter	Type	Example	Description
RequestId	String	5B4511A7-C99E-4071-AA8C-32E2529DA963	The ID of the request.
Ldap	Struct		The details of LDAP.
BindDN	String	cn=alibaba,dc=com	The LDAP entry.
URI	String	ldap://ldap.example.example	The URL of an LDAP server.
SearchBase	String	dc=example	The LDAP search base.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=DescribeLDAPConfig
&FileSystemId=1ca404a348
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeLDAPConfigResponse>
  <RequestId>5B4511A7-C99E-4071-AA8C-32E2529DA963</RequestId>
</DescribeLDAPConfigResponse>
```

JSON format

```
{
  "RequestId": "5B4511A7-C99E-4071-AA8C-32E2529DA963",
  "Ldap": {
    "URI": "ldap://ldap.example.example",
    "BindDN": "cn=alibaba,dc=com",
    "SearchBase": "dc=example"
  }
}
```

Error codes

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

11.2. DeleteLDAPConfig

Removes Lightweight Directory Access Protocol (LDAP) parameters.

Description

The API operation is available only for CPFS file systems.

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
-----------	------	----------	---------	-------------

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteLDAPConfig	The operation that you want to perform. Set the value to DeleteLDAPConfig.
FileSystemId	String	Yes	1ca404a348	The ID of the file system.

Response parameters

Parameter	Type	Example	Description
RequestId	String	5B4511A7-C99E-4071-AA8C-32E2529DA963	The ID of the request.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=DeleteLDAPConfig
&FileSystemId=cpfs-xxx
&URI=[ldap://ldap.example.example]
&<Common request parameters>
```

Sample success responses

XML format

```
<DeleteLDAPConfigResponse>
  <RequestId>5B4511A7-C99E-4071-AA8C-32E2529DA963</RequestId>
</DeleteLDAPConfigResponse>
```

JSON format

```
{
  "RequestId": "5B4511A7-C99E-4071-AA8C-32E2529DA963"
}
```

Error codes

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

11.3. CreateLDAPConfig

Adds Lightweight Directory Access Protocol (LDAP) parameters.

Description

The API operation is available only for CPFS file systems.

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	CreateLDAPConfig	The operation that you want to perform. Set the value to CreateLDAPConfig.
BindDN	String	Yes	cn=alibaba,dc=com	The LDAP entry.
FileSystemId	String	Yes	109c042666	The ID of the file system.
SearchBase	String	Yes	dc=example	The LDAP search base.
URI	String	Yes	ldap://ldap.example.example	The LDAP Uniform Resource Identifier (URI).

Response parameters

Parameter	Type	Sample response	Description
RequestId	String	5B4511A7-C99E-4071-AA8C-32E2529DA963	The ID of the request.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=CreateLDAPConfig
&FileSystemId=cpfs-xxx
&URI=[ldap://ldap.example.example]
&BindDN=[cn=alibaba,dc=com]
&SearchBase=[dc=example]
&<Common request parameters>
```

Sample success responses

XML format

```
<CreateLDAPConfigResponse>
  <RequestId>5B4511A7-C99E-4071-AA8C-32E2529DA963</RequestId>
</CreateLDAPConfigResponse>
```

JSON format

```
{
  "RequestId": "5B4511A7-C99E-4071-AA8C-32E2529DA963"
}
```

Error codes

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

11.4. ModifyLDAPConfig

Modifies Lightweight Directory Access Protocol (LDAP) parameters.

Description

The API operation is available only for CPFS file systems.

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	ModifyLDAPConfig	The operation that you want to perform. Set the value to ModifyLDAPConfig.

Parameter	Type	Required	Example	Description
BindDN	String	Yes	cn=alibaba,dc=com	The LDAP entry.
FileSystemId	String	Yes	109c042666	The ID of the file system.
SearchBase	String	Yes	dc=example	The LDAP search base.
URI	String	Yes	ldap://ldap.example.example	The LDAP Uniform Resource Identifier (URI).

Response parameters

Parameter	Type	Example	Description
RequestId	String	5B4511A7-C99E-4071-AA8C-32E2529DA963	The ID of the request.

Examples

Sample requests

```
GET https://nas.cn-hangzhou.aliyuncs.com/?Action=ModifyLDAPConfig
&FileSystemId=cpfs-xxx
&URI=[ldap://ldap.example.example]
&BindDN=[cn=alibaba,dc=com]
&SearchBase=[dc=example]
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyLDAPConfigResponse>
  <RequestId>5B4511A7-C99E-4071-AA8C-32E2529DA963</RequestId>
</ModifyLDAPConfigResponse>
```

JSON format

```
{
  "RequestId": "5B4511A7-C99E-4071-AA8C-32E2529DA963"
}
```

Error codes

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

12.NAS statuses

This topic describes the statuses of Apsara File Storage NAS resources. These resources include file systems, mount targets, snapshots, and tasks of lifecycle management policies.

States of file systems

The following table lists the states of file systems.

State	Description
Pending	Indicates that an operation on a file system is in progress. Operations include creating, starting, stopping, and deleting file systems. For NAS Extreme file systems, operations include scaling up and resetting snapshots.
Running	Indicates that a file system is available. Only file systems in the Running state can be mounted.
Stopped	Indicates that a file system is unavailable.

States of mount targets

The following table describes the states of mount targets.

State	Description
Pending	Indicates that the creation of a mount target is in progress.
Active	Indicates that a mount target is available. Only file systems whose mount targets are in the Active state can be mounted.
Inactive	Indicates that a mount target is unavailable.

States of snapshots

The following table describes the states of snapshots.

State	Description
CREATING	Indicates that the creation of a snapshot is in progress.
CREATED	Indicates that a snapshot is created.
DELETING	Indicates that the deletion of a snapshot is in progress.
RESETTING	Indicates that a rollback to a snapshot is in progress.
FAILED	Indicates that a snapshot failed to be created.

States of tasks that you specify in lifecycle management polices

The following table lists the states of tasks that you specify in lifecycle management policies.

State	Description
Active	Indicates that a task is in progress.
Paused	Indicates that a task is stopped.
Completed	Indicate that a task is completed.
Failed	Indicates that a task failed.
Canceled	Indicates that a task is canceled.

13. Error code list

Various error code messages are returned when API exceptions occur.

Error code

An error code is composed of four parts.

Component	Definition
HttpCode	HTTP response code that complies with HTTP syntax
Code	Error code
Message	Error message
Resolution	Recommended solution

Error code list

HttpCode	Code	Message	Resolution
500	InternalServerError	The request processing has failed due to some unknown error.	Please try again later.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	Please try again later.
504	ServiceTimeout	The request processing has failed due to timeout.	Please try again later.
503	SecurityToken.CheckFailed	The security token check has failed due to some internal error.	Please try again later.
503	SecurityToken.DecodeFailed	The security token decode has failed due to some internal error.	Please try again later.
503	SubRam.CheckFailed	The sub user Ram check has failed due to some internal error.	Please try again later.
503	VpcRam.CheckFailed	The Vpc ram check has failed due to some internal error.	Please try again later.

HttpCode	Code	Message	Resolution
503	VpcSubRam.CheckFailed	The Vpc sub user ram check has failed due to some internal error.	Please try again later.
400	Missingparameter.calleruid	Parameter `callerUid` is mandatory for this action.	Add the callerUid request parameter.
400	MissingParameter.RegionId	Parameter `RegionId` in endpoint is mandatory for this action.	Add the <i>RegionId</i> field to the domain name.
400	MissingParameter.VSwitchId	Parameter `VSwitchId` is mandatory for this action.	Add the VSwitchId request parameter.
400	MissingParameter.VpcId	Parameter `VpcId` is mandatory for this action.	Add the VpcId request parameter.
400	InvalidParameter.StorageType	Parameter `StorageType` is mandatory for this action.	A valid StorageType request parameter must contain <i>Performance</i> and <i>Capacity</i> .
400	InvalidParameter.ProtocolType	Parameter ProtocolType is mandatory for this action.	A valid ProtocolType request parameter must contain <i>NFS</i> and <i>SMB</i> .
400	InvalidParameter.Description	Parameter Description is mandatory for this action.	A valid Description string must contain Chinese and English characters in addition to @, #, \$, _, +, and -.
404	InvalidFileSystem.NotFound	The specified FileSystem does not exist.	The specified file system does not exist or has been deleted.
403	InvalidFileSystem.AlreadyExisted	The specified FileSystem has been already existed.	The specified file system already exists. You can call DescribeFileSystems and specify the file system ID to view its information.
404	InvalidMountTarget.NotFound	The specified MountTarget does not exist.	The specified mount point does not exist or has been deleted.

HttpCode	Code	Message	Resolution
404	InvalidAccessGroup.NotFound	The specified Account does not exist.	The specified permission group does not exist or has been deleted.
403	InvalidAccessGroup.AlreadyExisted	The specified AccessGroup has been already existed.	The specified permission group already exists. You can call DescribeMountTargets and specify the permission group to view its information.
403	InvalidAccessGroup.AlreadyAttached	The specified AccessGroup is still attached by some MountTarget(s).	The specified permission group is bound with one or more mount points. Unbind the mount points first before deleting the permission group.
404	InvalidAccessRule.NotFound	The specified AccessRule does not exist.	The specified permission rule does not exist or has been deleted.
404	InvalidLocation.NotFound	The specified Location is not found or is not supported.	The requested Location does not exist or is not currently providing services.
404	InvalidRegionId.NotFound	The specified Region is not found.	The requested Region does not exist or is not currently providing services.
404	InvalidAZone.NotFound	The specified AZone is not found.	The requested AZone does not exist or is not currently providing services.
404	InvalidVpc.NotFound	The specified EcsId is not found.	The specified VPC does not exist. Create a VPC first.
404	InvalidVip.NotFound	The specified Vip is not found.	The specified VPC is not found. Make sure you use correct and valid VPC information.

HttpCode	Code	Message	Resolution
404	InvalidLBid.NotFound	The specified LBid is not found.	The system failed to create LBid. Please try again later.
404	InvalidVpcTunnelId.NotFound	The specified vpc tunnelId is not found.	The specified VPC <i>tunnelId</i> does not exist. Check the VPC information first.
404	InvalidVpc.CreationFailed	The specified vpc instance creation failed.	Failed to create the specified VPC instance. Make sure you use correct and valid VPC information and there is available IP space for the instance, and then try again.
403	OperationDenied.DefaultAccessGroupCannotDelete	The default AccessGroup can not be deleted.	You can edit the operation-customized permission group.
403	OperationDenied.DefaultAccessGroupCannotModify	The default AccessGroup can not be modified.	You can edit the operation-customized permission group.
403	OperationDenied.NetworkTypeNotMatched	The NetworkType of MountTarget is not matched with AccessGroup.	Make sure the NetworkType of the mount point and the AccessGroupType of the permission group are consistent.
403	OperationDenied.MountTargetNotEmpty	There are still MountTarget(s) on the specified FileSystem.	The specified file system has one or more mount points. Delete the existing mount points first.
403	OperationDenied.FileSystemCountsExceeded	The amount of FileSystem has reached its limits(maximum 10).	To increase the limit, open a ticket .
403	OperationDenied.MountTargetCountsExceeded	The amount of MountTarget has reached its limits(maximum 2 per FileSystem).	To increase the limit, open a ticket .

HttpCode	Code	Message	Resolution
403	OperationDenied.AccessGroupCountsExceeded	The amount of AccessGroup has reached its limits.	To increase the limit, open a ticket .
403	OperationDenied.AccessRuleCountsExceeded	The amount of AccessRule has reached its limits.	To increase the limit, open a ticket .
403	User.Disabled	Your account does not open Nas Service yet or balance is insufficient.	If you have not activated the NAS service, activate the service first.
403	Forbidden.InvalidUserType	The operation is not permitted due to type of account.	Sorry, but NAS-OpenAPI does not currently support your account type.
403	Forbidden.Ram	User not authorized to operate on the specified resource, or this API doesn't support RAM.	Your account RAM permission verification failed. Go to RAM to authorize required NAS permissions.
403	Forbidden.EcsTokenNotAuthorized	User not authorized to check ecs on creating MountTarget of classic network type.	Go to RAM to authorize NAS permissions to visit the ECS verification interface.
403	NotQualified	User has not been approved for the trail application.	Please initiate an application to try the related features. If your application fails to be approved, open a ticket .

Response example of error codes

- XML format

```
<? xml version="1.0" encoding="UTF-8"? >
<Error>
  <RequestId>B71B4C68-6C6B-4D4B-AD70-8951BD7D188E</RequestId>
  <HostId>nas.cn-hangzhou.aliyuncs.com</HostId>
  <Code>InvalidFileSystem.NotFound</Code>
  <Message>The specified file system does not exist</Message>
</Error>
```

- JSON format

```
{
  "RequestId": "B71B4C68-6C6B-4D4B-AD70-8951BD7D188E",
  "HostId": " nas.cn-hangzhou.aliyuncs.com ",
  "Code": "InvalidFileSystem.NotFound",
  "Message": "The specified file system does not exist"
}
```