

Alibaba Cloud

CloudConfig API Reference

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Document conventions

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

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1. List of operations by function

The following tables describe API operations available for use in Cloud Config.

Resources

Operation	Description
GetDiscoveredResourceCounts	Queries the number of resources of each type or in each region supported by Cloud Config under the specified account.
GetSupportedResourceTypes	Queries the resource types supported by Cloud Config.
ListDiscoveredResources	Queries resources based on specified query criteria.
DescribeDiscoveredResource	Queries the configuration of a resource.
GetDiscoveredResourceSummary	Queries the statistics of the resources monitored by Cloud Config.
PutConfigurationRecorder	Modifies a configuration recorder.
GetResourceComplianceTimeline	Queries the compliance timeline of a resource.
GetResourceConfigurationTimeline	Queries the configuration timeline of a resource.

Rules

Operation	Description
DescribeConfigRule	Queries the details of a rule.
ListConfigRules	Queries rules in Cloud Config.
DeleteConfigRules	Deletes multiple rules at a time.
StartConfigRuleEvaluation	Evaluates the compliance of specified resources based on a rule.
StopConfigRules	Disables multiple rules at a time so that these rules enter the Inactive state.
PutEvaluations	Submits the compliance evaluation results.
DescribeEvaluationResults	Queries the compliance evaluation results.
DescribeCompliance	Queries the statistics of compliance evaluations based on compliance types.
PutConfigRule	Creates or modifies a rule.
DescribeComplianceSummary	Queries the summary of compliance evaluations from the rule and resource dimensions.

Operation	Description
ActiveConfigRules	Enables multiple rules at a time so that these rules enter the Active state.

Monitoring scope

Operation	Description
StartConfigurationRecorder	Starts a configuration recorder.
DescribeConfigurationRecorder	Queries the details of a configuration recorder.

Delivery methods

Operation	Description
PutDeliveryChannel	Creates or modifies a delivery method.
DescribeDeliveryChannels	Queries the details of delivery methods.

2. Make API requests

To send a Cloud Config API request, you must send an HTTP GET request to the Cloud Config endpoint. You must add the request parameters that correspond to the API operation being called. After you call the API operation, the system returns a response. The request and response are encoded in UTF-8.

Request structure

Cloud Config API operations use the RPC protocol. You can call Cloud Config API operations by sending HTTP GET requests.

The request syntax is as follows:

```
http://Endpoint/?Action=xx&Parameters
```

The following table describes the parameters in the request syntax.

Parameter	Description
Endpoint	The endpoint of the Cloud Config API. Set the value to <i>config.ap-southeast-1.aliyuncs.com</i> .
Action	The name of the operation being performed. For example, to query the configuration of a resource, you must set the Action parameter to <i>DescribeDiscoveredResource</i> .
Version	The version number of the API. Set the value to <i>2019-01-08</i> .
Parameters	The request parameters for the operation. Separate multiple parameters with ampersands (&). Request parameters include both common parameters and operation-specific parameters. Common parameters include the API version and authentication information. For more information, see Common parameters .

Sample requests

The following example demonstrates how to call the *DescribeDiscoveredResource* operation to query the configuration of a resource:

 **Note** The following code has been formatted to ease reading.

```
https://config.ap-southeast-1.aliyuncs.com/?Action=DescribeDiscoveredResource
&Format=xml
&Version=2019-01-08
&Signature=xxxx%xxxxx%3D
&SignatureMethod=HMAC-SHA1
&SignatureNonce=15215528852396
&SignatureVersion=1.0
&AccessKeyId=key-test
&TimeStamp=2020-05-01T12:00:00Z
...
```

3.Common parameters

This topic describes common parameters, including common request parameters and common response parameters.

Common request parameters

Parameter	Type	Required	Description
Format	String	No	The format in which to return the response. Valid values: - JSON (default value) - XML
Version	String	Yes	The version number of the API. The value is in the YYYY-MM-DD format. Set the value to <i>2019-01-08</i> .
Signature	String	Yes	The signature string of the current request.
SignatureMethod	String	Yes	The encryption method of the signature string. Set the value to HMAC-SHA1.
SignatureNonce	String	Yes	A unique, random number used to prevent replay attacks. You must use different numbers for different requests.
SignatureVersion	String	Yes	The version of the signature encryption algorithm. Set the value to 1.0.
AccessKeyId	String	Yes	The AccessKey ID provided to you by Alibaba Cloud.
Timestamp	String	Yes	The timestamp of the request. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. For example, 2013-01-10T12:00:00Z indicates 20:00:00 on January 10, 2013 (UTC+8).

Sample requests

```
https://config.aliyuncs.com/?Action=DescribeDiscoveredResource
&Format=JSON
&Version=2019-01-08
&Signature=Pc5WB8gokVn0xfeu%2FZV%2BiNM1dg****
&SignatureMethod=HMAC-SHA1
&SignatureNonce=1521552885****
&SignatureVersion=1.0
&AccessKeyId=LTAI4GENiH2u8MVj7Khh****
&Timestamp=2020-06-01T12:00:00Z
```

Common response parameters

Responses can be returned in either the JSON or XML format. You can specify the response format in the request. The default response format is JSON. Every response returns a unique RequestId regardless of whether the call is successful.

- A **2xx** HTTP status code indicates a successful call.
- A **4xx** or **5xx** HTTP status code indicates a failed call.

Sample responses

- XML format

```
<? xml version="1.0" encoding="utf-8"? >
<!--Result Root Node-->
<Interface Name+Response>
  <!--Return Request Tag-->
  <RequestId>4C467B38-3910-447D-87BC-AC049166F216</RequestId>
  <!--Return Result Data-->
</Interface Name+Response>
```

- JSON format

```
{
  "RequestId": "4C467B38-3910-447D-87BC-AC049166F216"
  /*Return Result Data*/
}
```

4. Request signatures

You must sign all API requests to ensure security. Alibaba Cloud uses the request signature to verify the identity of the API caller. Each API request must contain the signature, regardless of whether it is sent over HTTP or HTTPS.

Overview

For an RPC API, you must add the signature to the API request in the following format:

```
https://Endpoint/?SignatureVersion=1.0&SignatureMethod=HMAC-SHA1&Signature=CT9X0VtwR86fNWSnsc6v8YGOjuE%3D&SignatureNonce=3ee8c1b8-83d3-44af-a94f-4e0ad82fd6cf
```

In the preceding format:

- **SignatureMethod**: the encryption algorithm used to calculate the signature. Set the value to HMAC-SHA1.
- **SignatureVersion**: the version of the signature encryption algorithm. Set the value to 1.0.
- **SignatureNonce**: a unique, random number used to prevent replay attacks. You must use different random numbers for different requests. We recommend that you use universally unique identifiers (UUIDs).
- **Signature**: the signature generated after the request has been symmetrically encrypted by using the AccessKey secret.

The signature encryption algorithm complies with RFC 2104 HMAC-SHA1 specifications. The AccessKey secret is used to calculate the hash-based message authentication code (HMAC) value of the encoded and sorted query string, and the HMAC value is used as the signature string. Request signatures include operation-specific parameters. Therefore, the signature of a request varies based on the request parameters. To calculate a signature, follow the steps in this topic.

```
Signature = Base64( HMAC-SHA1( AccessKey Secret, UTF-8-Encoding-Of(StringToSign)) )
```

Step 1: Compose and encode a string-to-sign

1. Use request parameters to construct a canonicalized query string.
 - i. by arranging the request parameters (including all common and operation-specific parameters except Signature) in alphabetical order.

 **Note** If you use the GET method to submit the request, these parameters are the part located after the question mark (?) and connected by the ampersands (&) in the request uniform resource identifier (URI).

- ii. Encode the names and values of the arranged request parameters in the request URL by using the unicode transformation format (UTF)-8 character set. The following table describes the encoding rules.

Character	Encoding rule
Uppercase letters, lowercase letters, digits, hyphens (-), underscores (_), periods (.), and tildes (~)	These characters do not need to be encoded.
Other characters	These characters must be percent encoded in <code>%XY</code> format. <code>X</code> <code>Y</code> represents the ASCII code of the characters in hexadecimal notation. For example, double quotation marks (") are encoded as <code>%22</code> .
Extended UTF-8 characters	These characters are encoded in <code>%XY%ZA...</code> format.
Space characters	Spaces must be encoded as <code>%20</code>. Do not encode spaces as plus signs (+). This encoding method is different from the <code>application/x-www-form-urlencoded</code> MIME encoding algorithm (such as the <code>java.net.URLEncoder</code> class provided by the Java standard library). However, you can apply the encoding algorithm and replace the plus sign (+) in the encoded string with <code>%20</code>, the asterisk (*) with <code>%2A</code>, and <code>%7E</code> with the tilde (~). To do this, you can use the following <code>percentEncode</code> method: <pre>private static final String ENCODING = "UTF-8"; private static String percentEncode(String value) throws UnsupportedEncodingException { return value != null ? URLEncoder.encode(value, ENCODING).replace("+", "%20").replace("*", "%2A").replace("%7E", "~") : null; }</pre>

- iii. Connect the encoded parameter names and their values by using equal signs (=).
- iv. Sort the connected parameter name and value pairs in the order specified in step i and connect the pairs by using ampersands (&) to obtain the canonicalized query string.
2. Use the canonicalized query string to construct a string-to-sign in the following way:

```
StringToSign=
    HTTPMethod + "&" +
    percentEncode("/") + "&" +
    percentEncode(CanonicalizedQueryString)
```

In the preceding rules:

- `HTTPMethod`: the HTTP method used to submit a request, such as GET.
- `percentEncode("/")`: specifies the encoded value (`%2F`) of a forward slash (/). The encoding

follows the URL encoding rules.

- `percentEncode(CanonicalizedQueryString)`: specifies the encoded canonicalized query string based on the URL encoding rules.

Step 2: Calculate the signature string

1. Calculate the HMAC value of the string-to-sign based on RFC 2104.

 **Note** Use the SHA1 algorithm to calculate the HMAC value of the string-to-sign. The combination of your AccessKey secret and an ampersand (&) (ASCII code 38) that follows the secret is used as the key for the HMAC calculation.

2. Encode the HMAC value in Base64 to obtain the signature string
3. Add the signature string to the request as the Signature parameter.

 **Note** When the obtained signature value is submitted as the final request parameter value, the value must be URL-encoded like other parameters based on rules defined in [RFC 3986](#).

Signature example

Take a `DescribeDiscoveredResource` API request as an example, where the following sample request URL is to be signed:

```
http://config.cn-shanghai.aliyuncs.com/?AccessKeyId=testid&Action=DescribeDiscoveredResource&Format=JSON&Region=cn-shanghai&RegionId=cn-shanghai&ResourceId=i-uf6hm9lnlzsarrc7****&ResourceType=ACS%3A%3AECS%3A%3AInstance&SignatureMethod=HMAC-SHA1&SignatureNonce=b9942750-e6a8-11ea-b411-73ba779dcf0c&SignatureVersion=1.0&Timestamp=2020-08-25T07%3A58%3A13Z&Version=2019-01-08
```

The following string is the `string-to-sign` :

```
GET%2F&AccessKeyId%3Dtestid%26Action%3DDescribeDiscoveredResource%26Format%3DJSON%26Region%3Dcn-shanghai%26RegionId%3Dcn-shanghai%26ResourceId%3Di-uf6hm9lnlzsarrc7****%26ResourceType%3DACS%25253A%25253AECS%25253A%25253AInstance%26SignatureMethod%3DHMAC-SHA1%26SignatureNonce%3Db9942750-e6a8-11ea-b411-73ba779dcf0c%26SignatureVersion%3D1.0%26Timestamp%3D2020-08-25T07%25253A58%25253A13Z%26Version%3D2019-01-08
```

Assume that the AccessKey ID is `testid` and the AccessKey secret is `testsecret`. The key that is used to calculate the HMAC value of the string-to-sign is `testsecret&`.

The calculated signature string is `i+JJvbbP6iDAXEUOP6pTnRSCewc=` .

In this example, the following signed request URL is generated:

```
http://config.cn-shanghai.aliyuncs.com/?Signature=i+JJvbbP6iDAXEUOP6pTnRSCewc=&AccessKeyId=testid&Action=DescribeDiscoveredResource&Format=JSON&Region=cn-shanghai&RegionId=cn-shanghai&ResourceId=i-uf6hm9lnlzsarrc7****&ResourceType=ACS%3A%3AECS%3A%3AInstance&SignatureMethod=HMAC-SHA1&SignatureNonce=b9942750-e6a8-11ea-b411-73ba779dcf0c&SignatureVersion=1.0&Timestamp=2020-08-25T07%3A58%3A13Z&Version=2019-01-08
```

5. Permission verification

This topic describes the API operations that can be authorized in Cloud Config and the Alibaba Cloud Resource Name (ARN) format of the resources involved in each API operation.

Before an API operation is called, permissions are verified to ensure that the caller is authorized to call the API operation to manage specific resources.

The following table describes the API operations that can be authorized in Cloud Config and the ARN format of the resources involved in each API operation.

Operation	ARN format
config:StartConfigurationRecorder	acs:config:\${region}:\${AccountId}:*
config:DescribeConfigurationRecorder	acs:config:\${region}:\${AccountId}:*
config:GetDiscoveredResourceCounts	acs:config:\${region}:\${AccountId}:*
config:GetSupportedResourceTypes	acs:config:\${region}:\${AccountId}:*
config:ListDiscoveredResources	acs:config:\${region}:\${AccountId}:*
config:DescribeDiscoveredResource	acs:config:\${region}:\${AccountId}:*
config:GetResourceConfigHistory	acs:config:\${region}:\${AccountId}:*
config:DescribeConfigRule	acs:config:\${region}:\${AccountId}:*
config:ListConfigRules	acs:config:\${region}:\${AccountId}:*
config:PutConfigRule	acs:config:\${region}:\${AccountId}:*
config>DeleteConfigRules	acs:config:\${region}:\${AccountId}:*
config:StartConfigRuleEvaluation	acs:config:\${region}:\${AccountId}:*
config:PutEvaluations	acs:config:\${region}:\${AccountId}:*
config:DescribeEvaluationResults	acs:config:\${region}:\${AccountId}:*
config:DescribeCompliance	acs:config:\${region}:\${AccountId}:*
config:DescribeComplianceSummary	acs:config:\${region}:\${AccountId}:*

6. Obtain an AccessKey pair

You can create an AccessKey pair for an Alibaba Cloud account or a RAM user. When you call API operations, you must use the AccessKey pair to complete identity verification.

Context

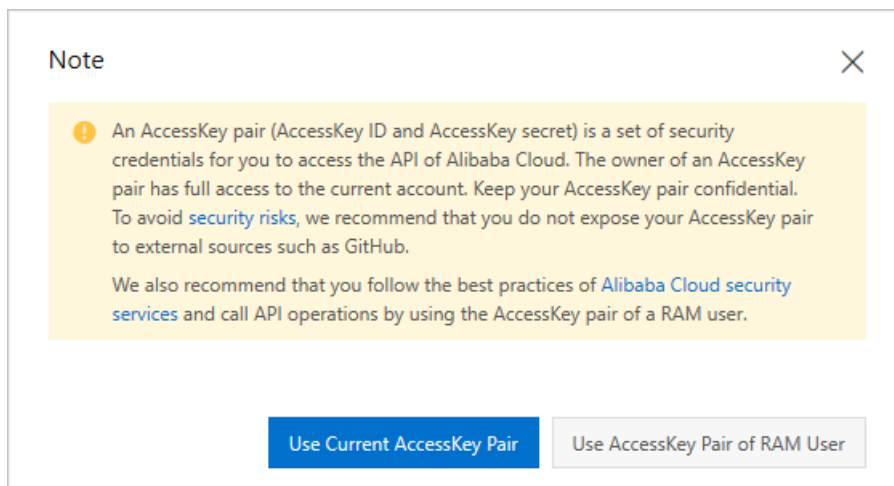
An AccessKey pair consists of an AccessKey ID and an AccessKey secret.

- The AccessKey ID is used to identify a user.
- The AccessKey secret is used to verify the identity of the user. You must keep the AccessKey secret strictly confidential.

 **Warning** If the AccessKey pair of your Alibaba Cloud account is disclosed, your resources may be exposed to potential risks. We recommend that you use the AccessKey pair of a RAM user to call API operations. This prevents the AccessKey pair of your Alibaba Cloud account from being leaked.

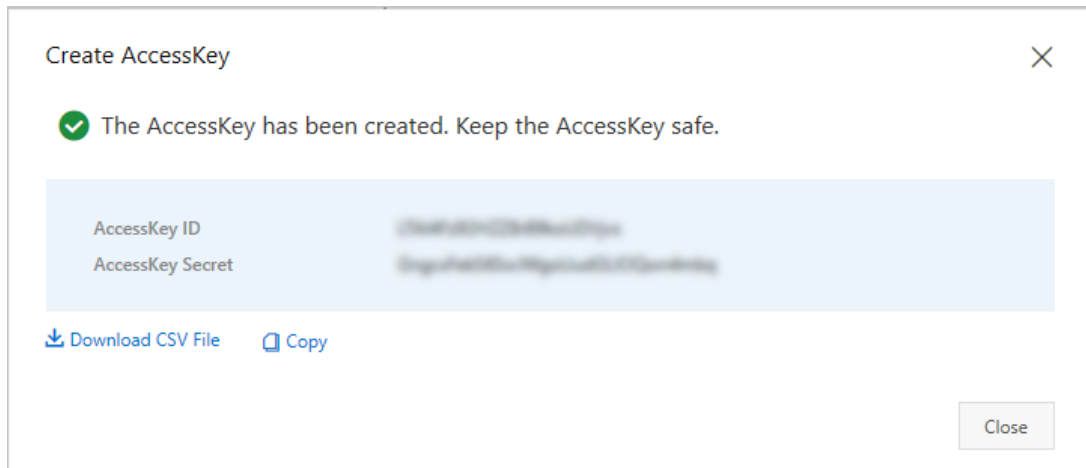
Procedure

1. Log on to the [Alibaba Cloud Management Console](#) by using your Alibaba Cloud account.
2. Move the pointer over the profile picture in the upper-right corner of the page and click **AccessKey Management**.
3. In the **Note** dialog box, click **Use Current AccessKey Pair** or **Use AccessKey Pair of RAM User**.



- Obtain the AccessKey pair of the Alibaba Cloud account
 - a. Click **Use Current AccessKey Pair**.
 - b. On the **AccessKey Management** page, click **Create AccessKey**.

- c. In the **Create AccessKey** dialog box, view the AccessKey ID and AccessKey secret. You can click **Download CSV File** to download the AccessKey pair or click **Copy** to copy the AccessKey pair.

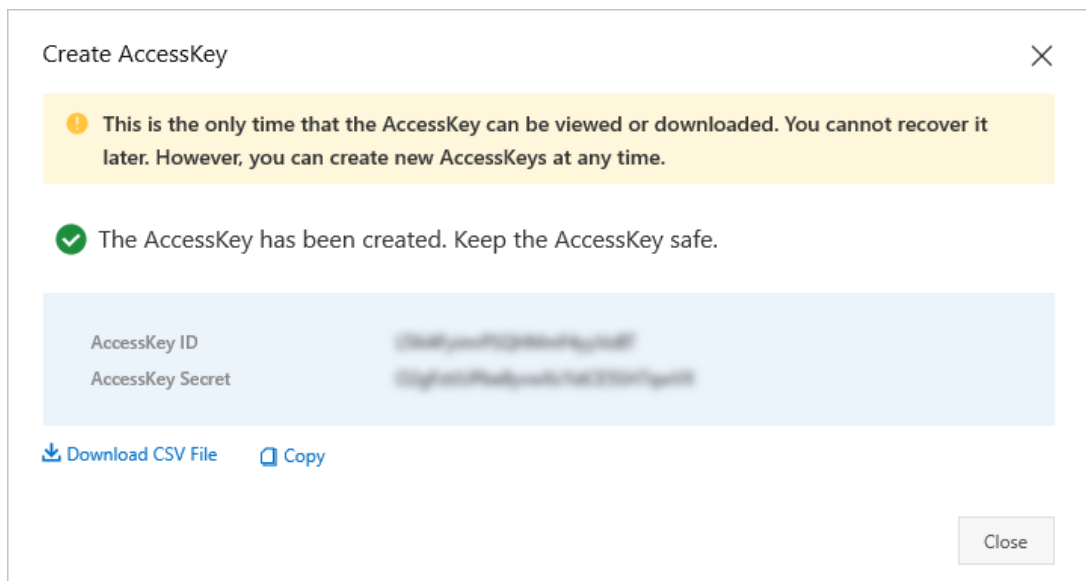


- o Obtain the AccessKey pair of a RAM user
 - a. Click **Use AccessKey Pair of RAM User**.
 - b. On the **Users** page of the **RAM console**, find the RAM user whose AccessKey pair you want to obtain.

Note If you do not have a RAM user, you must first create the RAM user. For more information, see [Create a RAM user](#).

- c. Click the name of the RAM user in the User Logon Name/Display Name column.
- d. In the **User AccessKeys** section of the **Authentication** tab, click **Create AccessKey**.

- e. In the **Create AccessKey** dialog box, view the AccessKey ID and AccessKey secret. You can click **Download CSV File** to download the AccessKey pair or click **Copy** to copy the AccessKey pair.



🔍 Note

- The AccessKey secret is displayed only after you create an AccessKey pair. You cannot query the AccessKey secret in subsequent operations. Therefore, you must back up your AccessKey secret.
- If your AccessKey pair is leaked or lost, you must create another AccessKey pair. You can create a maximum of two AccessKey pairs for each RAM user.

7.Resources

7.1. GetDiscoveredResourceCounts

Queries the number of resources.

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	GetDiscoveredResourceCounts	The operation that you want to perform. Set the value to GetDiscoveredResourceCounts.
GroupByKey	String	No	ResourceType	The dimension by which resources are grouped. Valid values: - ResourceType: specifies that resources are grouped by type. - Region: specifies that resources are grouped by region.
MultiAccount	Boolean	No	true	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .
MemberId	Long	No	123456789	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .

Response parameters

Parameter	Type	Example	Description
RequestId	String	54BFA4FB-6E08-4D58-9E83-1A8A3EC80247	The ID of the request.
GroupedResourceCounts	Object		The returned information about resources.
GroupedResourceCountList	Array of GroupedResourceCount		The information about resources in a specific group.
ResourceCount	Long	13	The number of resources in the group.
GroupName	String	ACS::ECS::Snapshot	The name of the resource group.
GroupByKey	String	ResourceType	The dimension by which resources are grouped.

Examples

Sample requests

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

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetDiscoveredResourceCountsResponse>
  <RequestId>54BFA4FB-6E08-4D58-9E83-1A8A3EC80247</RequestId>
  <GroupedResourceCounts>
    <GroupedResourceCountList>
      <GroupName>ACS::ECS::Snapshot</GroupName>
      <ResourceCount>13</ResourceCount>
    </GroupedResourceCountList>
    <GroupedResourceCountList>
      <GroupName>ACS::ECS::SecurityGroup</GroupName>
      <ResourceCount>10</ResourceCount>
    </GroupedResourceCountList>
    <GroupByKey>ResourceType</GroupByKey>
  </GroupedResourceCounts>
</GetDiscoveredResourceCountsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId": "54BFA4FB-6E08-4D58-9E83-1A8A3EC80247",
  "GroupedResourceCounts": {
    "GroupedResourceCountList": [ {
      "GroupName": "ACS::ECS::Snapshot",
      "ResourceCount": 13
    }, {
      "GroupName": "ACS::ECS::SecurityGroup",
      "ResourceCount": 10
    } ],
    "GroupByKey": "ResourceType"
  }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
400	MemberNotBelongToMaster	The specified member does not belong to your organization.	The error message returned because the specified member account does not belong to your resource directory.
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

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

7.2. GetSupportedResourceTypes

Queries the resource types that are supported by Cloud Config.

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

Response parameters

Parameter	Type	Example	Description
ResourceTypes	Array of String	["ACS::ECS::Instance", "ACS::ECS::NetworkInterface"]	The types of resources that are supported by Cloud Config.
RequestId	String	6CE4ABA1-9A57-41A9-8EA9-E8B17D4671CD	The ID of the request.

Examples

Sample requests

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

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetSupportedResourceTypesResponse>
  <ResourceTypes>ACS::ECS::Instance</ResourceTypes>
  <ResourceTypes>ACS::ECS::NetworkInterface</ResourceTypes>
  <RequestId>3A0D65E8-D5C0-4664-B257-950F7A5E33C3</RequestId>
</GetSupportedResourceTypesResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "ResourceTypes": [ "ACS::ECS::Instance", "ACS::ECS::NetworkInterface" ],
  "RequestId": "3A0D65E8-D5C0-4664-B257-950F7A5E33C3"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

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

7.3. ListDiscoveredResources

Queries resources based on specified query criteria.

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	ListDiscoveredResources	The operation that you want to perform. Set the value to ListDiscoveredResources .
ResourceId	String	No	S-hp3d9r78m7uysiii****	The ID of the resource.
ResourceDeleted	Integer	No	1	Specifies whether the resource is deleted. Valid values: 1: The resource is not deleted. 0: The resource is deleted.
PageSize	Integer	Yes	1	The number of entries to return on each page. Valid values: 1 to 100.
PageNumber	Integer	Yes	10	The number of the page to return. Pages start from page 1.

Parameter	Type	Required	Example	Description
ResourceTypes	String	No	ACS::ECS::Snapshots	The type of the resource. Separate multiple resources with commas (,).
Regions	String	No	cn-huhehaote	The IDs of the regions in which the resources are to be queried. Separate multiple regions with commas (,).
ComplianceType	String	No	COMPLIANT	The compliance evaluation result of the resources. Valid values: - COMPLIANT: The resource is evaluated to be compliant. - NON_COMPLIANT: The resource is evaluated to be non-compliant.
MultiAccount	Boolean	No	false	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .
MemberId	Long	No	123456789	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .

Response parameters

Parameter	Type	Example	Description
DiscoveredResourceProfiles	Object		The information about the returned resources.
DiscoveredResourceProfileList	Array of DiscoveredResourceProfile		The returned resources.

Parameter	Type	Example	Description
ResourceType	String	ACS::ECS::Snapshot	The type of the resource.
Region	String	cn-huhehaote	The ID of the region.
ResourceCreationTime	Long	1618675206000	The timestamp when the resource was created.
Tags	String	{\"key1\": [\"value2\"],\"key3\": [\"value4\"]}	The tags of the resource.
AccountId	Long	987654321	The ID of your Alibaba Cloud account.
ResourceId	String	s- hp3d9r78m7uysiii*** *	The ID of the resource.
ResourceName	String	auto2.0_20210418_s p- hp3e2kkt8ugld7ox** **	The name of the resource.
ResourceDeleted	Integer	1	Indicates whether the resource is deleted. Valid values: 1: The resource is not deleted. 0: The resource is deleted.
ResourceStatus	String	accomplished	The status of the resource. The parameter value varies with the resource type and may be left empty. Examples: - If ResourceType is set to ACS::ECS::Instance, the resource is an Elastic Compute Service (ECS) instance which has a specific state. In this case, valid values of this parameter include Running and Stopped. - If ResourceType is set to ACS::OSS::Bucket, the resource is an Object Storage Service (OSS) bucket which does not have a specific state. In this case, this parameter is left empty.

Parameter	Type	Example	Description
PageNumber	Integer	10	The page number of the returned page. Pages start from page 1.
PageSize	Integer	1	The number of entries returned on each page. Valid values: 1 to 100.
TotalCount	Integer	129	The total number of resources.
RequestId	String	C7817373-78CB-4F9A-8AFA-E7A88E9D64A2	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListDiscoveredResources
&PageNumber=10
&PageSize=1
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListDiscoveredResourcesResponse>
  <DiscoveredResourceProfiles>
    <TotalCount>129</TotalCount>
    <PageSize>1</PageSize>
    <PageNumber>10</PageNumber>
    <DiscoveredResourceProfileList>
      <AccountId>987654321</AccountId>
      <ResourceCreationTime>1618675206000</ResourceCreationTime>
      <ResourceId>s-hp3d9r78m7uysiii****</ResourceId>
      <ResourceName>auto2.0_20210418_sp-hp3e2kkt8ugld7ox****</ResourceName>
      <Region>cn-huhehaote</Region>
      <ResourceStatus>accomplished</ResourceStatus>
      <ResourceType>ACS::ECS::Snapshot</ResourceType>
      <ResourceDeleted>1</ResourceDeleted>
      <Tags>{\"key1\":[\"value2\"],\"key3\":[\"value4\"]}</Tags>
    </DiscoveredResourceProfileList>
  </DiscoveredResourceProfiles>
  <RequestId>C7817373-78CB-4F9A-8AFA-E7A88E9D64A2</RequestId>
</ListDiscoveredResourcesResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "DiscoveredResourceProfiles": {
    "TotalCount": 129,
    "PageSize": 1,
    "PageNumber": 10,
    "DiscoveredResourceProfileList": [ {
      "AccountId": "987654321",
      "ResourceCreationTime": 1618675206000,
      "ResourceId": "s-hp3d9r78m7uysiii****",
      "ResourceName": "auto2.0_20210418_sp-hp3e2kkt8ugld7ox****",
      "Region": "cn-huhehaote",
      "ResourceStatus": "accomplished",
      "ResourceType": "ACS::ECS::Snapshot",
      "ResourceDeleted": 1,
      "Tags": "{\"key1\": [\"value2\"], \"key3\": [\"value4\"]}"
    } ]
  },
  "RequestId": "C7817373-78CB-4F9A-8AFA-E7A88E9D64A2"
}
```

Error codes

HttpCode	Error codes	Error message	Description
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
400	MemberNotBelongToMaster	The specified member does not belong to your organization.	The error message returned because the specified member account does not belong to your resource directory.
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

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

7.4. DescribeDiscoveredResource

Queries the configuration of a 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	DescribeDiscoveredResource	The operation that you want to perform. Set the value to DescribeDiscoveredResource .
ResourceId	String	Yes	adaf.zhilon****	The ID of the resource.
ResourceType	String	Yes	ACS::CDN::Domain	The type of the resource.  Note You can call the <code>GetSupportedResourceTypes</code> operation to query the resource types supported by Cloud Config. For more information, see GetSupportedResourceTypes .
Region	String	Yes	cn-hangzhou	The ID of the region.
MultiAccount	Boolean	No	true	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .
MemberId	Long	No	123456789	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .

Response parameters

Parameter	Type	Example	Description
RequestId	String	E4D71ACE-6B0A-46E0-8352-56952378CC7F	The ID of the request.
DiscoveredResourceDetail	Object		The information about the resource.
AvailabilityZone	String	cn-hangzhou-h	The zone where the resource resides.
ResourceType	String	ACS::CDN::Domain	The type of the resource.
Configuration	String	{ "Description": "\", "SslProtocol": "\", "DomainName": "\", "adaf.zhilong***", "GmtModified": "\", "2019-04-10T03:11Z", "CdnType": "\", "web", "GmtCreated": "\", "2016-03-03T01:31:35Z", "Cname": "\", "adaf.zhilong.me.w.kun****.com", "Sources": { "Source": { "Type": "\", "oss", "Content": "\", "test2-mh.oss-cn-hangzhou.aliyuncs.com", "Priority": "\", "20", "Port": "\", "80", "Weight": "\", "10" } }, "DomainStatus": "\", "offline", "Sandbox": "\", "" }	The configuration of the resource.
Region	String	cn-hangzhou	The ID of the region.
ResourceCreationTime	Long	1456968695000	The timestamp when the resource was created.
Tags	String	{ "hc": "\", "value2": "\", "" }	The tags of the resource.
AccountId	Long	987654321	The ID of your Alibaba Cloud account.

Parameter	Type	Example	Description
ResourceId	String	adaf.zhilon****	The ID of the resource.
ResourceDeleted	Integer	1	Indicates whether the resource is deleted. Valid values: 1: The resource is not deleted. 0: The resource is deleted.
ResourceName	String	test-resource-name	The name of the resource.
ResourceStatus	String	offline	The status of the resource. The parameter value varies with the resource type and may be left empty. Examples: - If ResourceType is set to ACS::ECS::Instance, the resource is an Elastic Compute Service (ECS) instance which has a specific state. In this case, valid values of this parameter include Running and Stopped. - If ResourceType is set to ACS::OSS::Bucket, the resource is an Object Storage Service (OSS) bucket which does not have a specific state. In this case, this parameter is left empty.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeDiscoveredResource
&Region=cn-hangzhou
&ResourceId=adaf.zhilon****
&ResourceType=ACS::CDN::Domain
&<Common request parameters>
```

Sample success responses

XML format

```

HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDiscoveredResourceResponse>
  <RequestId>E4D71ACE-6B0A-46E0-8352-56952378CC7F</RequestId>
  <DiscoveredResourceDetail>
    <accountId>987654321</accountId>
    <resourceId>adaf.zhilon****</resourceId>
    <resourceStatus>offline</resourceStatus>
    <configuration>{"Description":"","SslProtocol":"","off","DomainName":"","adaf.zhilong****","GmtModified":"","2019-04-10T03:11Z","CdnType":"","web","GmtCreated":"","2016-03-03T01:31:35Z","Cname":"","adaf.zhilong.me.w.kun****.com","Sources":{"Source":{"Type":"","oss","Content":"","test2-mh.oss-cn-hangzhou.aliyuncs.com","Priority":"","20","Port":"","80","Weight":"","10"}}},"DomainStatus":"","offline","Sandbox":"",""}</configuration>
    <resourceDeleted>1</resourceDeleted>
    <resourceName>test-resource-name</resourceName>
    <region>cn-hangzhou</region>
    <availabilityZone>cn-hangzhou-h</availabilityZone>
    <resourceCreationTime>1456968695000</resourceCreationTime>
    <tags>{"hc":{"value2":""}}</tags>
    <resourceType>ACS::CDN::Domain</resourceType>
  </DiscoveredResourceDetail>
</DescribeDiscoveredResourceResponse>

```

JSON format

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId": "E4D71ACE-6B0A-46E0-8352-56952378CC7F",
  "DiscoveredResourceDetail": {
    "accountId": "987654321",
    "resourceId": "adaf.zhilon****",
    "resourceStatus": "offline",
    "configuration": "{\"Description\":\"\",\"SslProtocol\":\"off\",\"DomainName\":\"adaf.zhilong****\",\"GmtModified\":\"2019-04-10T03:11Z\",\"CdnType\":\"web\",\"GmtCreated\":\"2016-03-03T01:31:35Z\",\"Cname\":\"adaf.zhilong.me.w.kun****.com\",\"Sources\":{\"Source\":{\"Type\":\"oss\",\"Content\":\"test2-mh.oss-cn-hangzhou.aliyuncs.com\",\"Priority\":\"20\",\"Port\":\"80\",\"Weight\":\"10\"}},\"DomainStatus\":\"offline\",\"Sandbox\":\"\"}\",
    "resourceDeleted": 1,
    "resourceName": "test-resource-name",
    "region": "cn-hangzhou",
    "availabilityZone": "cn-hangzhou-h",
    "resourceCreationTime": 1456968695000,
    "tags": "{\"hc\":{\"value2\":\"\"}}",
    "resourceType": "ACS::CDN::Domain"
  }
}

```

Error codes

HttpCode	Error code	Error message	Description
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
400	MemberNotBelongToMaster	The specified member does not belong to your organization.	The error message returned because the specified member account does not belong to your resource directory.
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

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

7.5. GetDiscoveredResourceSummary

Queries the statistics of the resources monitored by Cloud Config.

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	GetDiscoveredResourceSummary	The operation that you want to perform. Set the value to GetDiscoveredResourceSummary .
MultiAccount	Boolean	No	false	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .

Parameter	Type	Required	Example	Description
MemberId	Long	No	123456789	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .

Response parameters

Parameter	Type	Example	Description
DiscoveredResourceSummary	Object		The statistics of the resources monitored by Cloud Config.
RegionCount	Integer	6	The number of the regions involved in the monitoring.
ResourceCount	Integer	7	The number of the resources monitored by Cloud Config.
ResourceTypeCount	Integer	45	The number of the resource types monitored by Cloud Config.
RequestId	String	2A8FA4FB-2E08-4D28-8F83-1A8A3EC80B1C	The ID of the request.

Examples

Sample requests

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

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetDiscoveredResourceSummaryResponse>
  <DiscoveredResourceSummary>
    <ResourceTypeCount>45</ResourceTypeCount>
    <ResourceCount>7</ResourceCount>
    <RegionCount>6</RegionCount>
  </DiscoveredResourceSummary>
  <RequestId>2A8FA4FB-2E08-4D28-8F83-1A8A3EC80B1C</RequestId>
</GetDiscoveredResourceSummaryResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "DiscoveredResourceSummary": {
    "ResourceTypeCount": "45",
    "ResourceCount": "7",
    "RegionCount": "6"
  },
  "RequestId": "2A8FA4FB-2E08-4D28-8F83-1A8A3EC80B1C"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
400	MemberNotBelongToMaster	The specified member does not belong to your organization.	The error message returned because the specified member account does not belong to your resource directory.
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

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

7.6. GetResourceComplianceTimeline

Queries the compliance timeline of a 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	GetResourceComplianceTimeline	The operation that you want to perform. Set the value to GetResourceComplianceTimeline .
ResourceType	String	Yes	ACS::ECS::Instance	The type of the resource.
ResourceId	String	Yes	i-uf6072y75i2cevjq****	The ID of the resource.
StartTime	Long	No	1593599340010	The timestamp that specifies the beginning of the time range to query. By default, Cloud Config retrieves the configuration changes in the last 30 days for the specified resource.
EndTime	Long	No	1593599342230	The timestamp that specifies the end of the time range to query. By default, the value is the time when the GetResourceConfigurationTimeline operation is called.
Limit	Integer	No	10	The number of entries to return on each page. Valid values: 1 to 100. Default value: 10.
MultiAccount	Boolean	No	true	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .

Parameter	Type	Required	Example	Description
MemberId	String	No	123456789	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .
Region	String	Yes	cn-hangzhou	The ID of the region.
NextToken	String	No	caeba0bbb2be03f84eb48b699f0a***	The token that is used to start the next query.

Response parameters

Parameter	Type	Example	Description
RequestId	String	DE9FFFE5-FCAD-4B24-9546-BF49273C562B	The ID of the request.
ResourceComplianceTimeline	Object		The information about the compliance timeline.
NextToken	String	caeba0bbb2be03f84eb48b699f0a****	The token that was returned for the next query.
Limit	Integer	10	The number of entries returned on each page. Valid values: 1 to 100.
ComplianceList	Array of ComplianceList		The compliance evaluations in the compliance timeline.
Tags	String	{"project\": [\"efg\"]}	The tags of the resource.
AccountId	String	120390217529****	The ID of your Alibaba Cloud account.

Parameter	Type	Example	Description
AvailabilityZone	String	cn-hangzhou-f	The ID of the zone.
ResourceType	String	ACS::ECS::Instance	The type of the resource.
ResourceCreateTime	Long	1203902175293610	The timestamp when the resource was created.
Region	String	cn-hangzhou	The ID of the region.
Configuration	String	<pre>{ "managetest-required-tags": { "configRuleId": "cr-656d5180a8d1009c***", "configRuleArn": "acs:config::120390217529****:config-rule/cr-656d5180a8d1009c***", "configRuleName": "managetest-required-tags", "complianceType": "NON_COMPLIANT", "riskLevel": 1, "annotation": "" }, "desiredValue": { "key1": "No tag with name key1" }, "invokingEventType": "ConfigurationItemChangeNotification" }</pre>	The information about the rules triggered for the resource and the compliance evaluation results.
CaptureTime	Long	1203902175292305	The timestamp when the compliance evaluation occurred.

Parameter	Type	Example	Description
ConfigurationDiff	String	<pre>{\"Compliance\": {\"complianceType\": \"NON_COMPLIANT\", \"count\":2}, \"ConfigRuleList\": [{\"configRuleId\": \"cr-7b6e5180a8d100cc* ***\", \"configRuleArn\": \"acs:config::120390217529****:co nfig-rule/cr-7b6e5180a8d100cc* ***\", \"configRuleName\": \"required-tags\", \"complianceType\": \"COMPLIANT\", \"riskLevel\":1, \"invokingEventMessageType\": \"ConfigurationItemChangeNo tification\"}]}</pre>	The information about the changes to the compliance evaluation results, including the information about the triggered rules.
ResourceId	String	i-uf6072y75i2cevjq***	The ID of the resource.
ResourceName	String	test-resource	The name of the resource.
ResourceStatus	String	Running	The status of the resource. The parameter value varies with the resource type and may be left empty. Examples: - If <code>ResourceType</code> is set to <code>ACS::ECS::Instance</code>, the resource is an Elastic Compute Service (ECS) instance which has a specific state. In this case, valid values of this parameter include <code>Running</code> and <code>Stopped</code>. - If <code>ResourceType</code> is set to <code>ACS::OSS::Bucket</code>, the resource is an Object Storage Service (OSS) bucket which does not have a specific state. In this case, this parameter is left empty.
TotalCount	Long	100	The total number of the compliance evaluations for the specified resource.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetResourceComplianceTimeline
&Region=cn-hangzhou
&ResourceId=i-uf6072y75i2cevjq****
&ResourceType=ACS::ECS::Instance
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ResourceComplianceTimelineResponse>
  <NextToken>caeba0bbb2be03f84eb48b699f0a****</NextToken>
  <ComplianceList>
    <AccountId>120390217529****</AccountId>
    <CaptureTime>1203902175292305</CaptureTime>
    <ConfigurationDiff>{"Compliance":{"complianceType":"NON_COMPLIANT","count":2},"ConfigRuleList":[{"configRuleId":"cr-7b6e5180a8d100cc****","configRuleArn":"acs:config::120390217529****:config-rule/cr-7b6e5180a8d100cc****","configRuleName":"required-tags","complianceType":"COMPLIANT","riskLevel":1,"invokingEventMessageType":"ConfigurationItemChangeNotification"}]}</ConfigurationDiff>
    <Configuration>{"managetest-required-tags":{"configRuleId":"cr-656d5180a8d1009c****","configRuleArn":"acs:config::120390217529****:config-rule/cr-656d5180a8d1009c****","configRuleName":"managetest-required-tags","complianceType":"NON_COMPLIANT","riskLevel":1,"annotation":{"desiredValue":{"key1":"","reason":"","No tag with name key1"},"invokingEventMessageType":"ConfigurationItemChangeNotification"}]}</Configuration>
    <ResourceId>i-uf6072y75i2cevjq****</ResourceId>
    <ResourceName>test-resource</ResourceName>
    <AvailabilityZone>cn-hangzhou-f</AvailabilityZone>
    <Region>cn-hangzhou</Region>
    <ResourceStatus>Running</ResourceStatus>
    <ResourceType>ACS::ECS::Instance</ResourceType>
    <ResourceCreateTime>1203902175293610</ResourceCreateTime>
    <Tags>{"project":{"efg"}}</Tags>
  </ComplianceList>
  <Limit>10</Limit>
  <RequestId>DE9FFFE5-FCAD-4B24-9546-BF49273C562B</RequestId>
</ResourceComplianceTimelineResponse>
```

JSON format

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "ResourceComplianceTimeline": {
    "NextToken": "caeba0bbb2be03f84eb48b699f0a****",
    "ComplianceList": [ {
      "AccountId": "120390217529****",
      "CaptureTime": "1203902175292305",
      "ConfigurationDiff": "{\\\"Compliance\\\":{\\\"complianceType\\\":\\\"NON_COMPLIANT\\\",\\\"count\\\":2
},\\\"ConfigRuleList\\\":{\\\"configRuleId\\\":\\\"cr-7b6e5180a8d100cc****\\\",\\\"configRuleArn\\\":\\\"acs:co
nfig::120390217529****:config-rule/cr-7b6e5180a8d100cc****\\\",\\\"configRuleName\\\":\\\"required-tags\\\"
\\\",\\\"complianceType\\\":\\\"COMPLIANT\\\",\\\"riskLevel\\\":1,\\\"invokingEventMessageType\\\":\\\"Config
urationItemChangeNotification\\\"}}",
      "Configuration": "{\\\"managetest-required-tags\\\":{},{\\\"configRuleId\\\":\\\"cr-656d5180a8d1009c****
\\\",\\\"configRuleArn\\\":\\\"acs:config::120390217529****:config-rule/cr-656d5180a8d1009c****\\\",\\\"confi
gRuleName\\\":\\\"managetest-required-tags\\\",\\\"complianceType\\\":\\\"NON_COMPLIANT\\\",\\\"riskLev
el\\\":1,\\\"annotation\\\":\\\"{\\\"desiredValue\\\":\\\"key1\\\",\\\"reason\\\":\\\"No tag
with name key1\\\"}\\\"}\\\",\\\"invokingEventMessageType\\\":\\\"ConfigurationItemChangeNotification\\\"}
}",
      "ResourceId": "i-uf6072y75i2cevjq****",
      "ResourceName": "test-resource",
      "AvailabilityZone": "cn-hangzhou-f",
      "Region": "cn-hangzhou",
      "ResourceStatus": "Running",
      "ResourceType": "ACS::ECS::Instance",
      "ResourceCreateTime": "1203902175293610",
      "Tags": "{\\\"project\\\":[\\\"efg\\\"]}"
    } ],
    "Limit": 10
  },
  "RequestId": "DE9FFFE5-FCAD-4B24-9546-BF49273C562B"
}

```

Error codes

HttpCode	Error code	Error message	Description
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

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

7.7. GetResourceConfigurationTimeline

Queries the configuration timeline of a 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	GetResourceConfigurationTimeline	The operation that you want to perform. Set the value to GetResourceConfigurationTimeline .
ResourceId	String	Yes	i-bp19xem7lt97h973****	The ID of the resource.
StartTime	Long	No	1605489195000	The timestamp that specifies the beginning of the time range to query. By default, Cloud Config retrieves the configuration changes in the last 30 days for the specified resource.
EndTime	Long	No	1605489235000	The timestamp that specifies the end of the time range to query. By default, the value is the time when the GetResourceConfigurationTimeline operation is called.
Limit	Integer	No	10	The number of entries to return on each page. Valid values: 1 to 100. Default value: 10.
ResourceType	String	Yes	ACS::ECS::Instance	The type of the resource.
Region	String	Yes	cn-hangzhou	The ID of the region.

Parameter	Type	Required	Example	Description
MultiAccount	Boolean	No	true	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .
MemberId	Long	No	123456789	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .
NextToken	String	No	caeba0bbb2be03f84eb48b699f0a***	The token that is used to start the next query.

Response parameters

Parameter	Type	Example	Description
RequestId	String	ED9CD1B3-286C-4E05-A765-5E1E0B9BC2AB	The ID of the request.
ResourceConfigurationTimeline	Object		The information of the configuration timeline.
NextToken	String	caeba0bbb2be03f84eb48b699f0a****	The token that was returned for the next query.
Limit	Integer	10	The number of entries returned on each page. Valid values: 1 to 100.
ConfigurationList	Array of ConfigurationList		The configuration changes of the configuration timeline.
Tags	String	{"\"hc\": [\"value2\"]"}	The tags of the resource.

Parameter	Type	Example	Description
AccountId	Long	987654321	The ID of your Alibaba Cloud account.
ResourceEventType	String	DISCOVERED	The type of the resource change event. Valid values: - DISCOVERED: A resource was created. - MODIFY: A resource was modified. - REMOVE: A resource is deleted.
AvailabilityZone	String	cn-hangzhou-h	The ID of the zone.
ResourceType	String	ACS::ECS::Instance	The type of the resource.
ResourceCreateTime	String	1605237751000	The time when the resource was created.
Region	String	cn-hangzhou	The ID of the region.
CaptureTime	String	1605316711000	The timestamp when the configuration change occurred.
ConfigurationDiff	String	{"ExpiredTime\":[\"2020-10-26T16:00Z\", \"2020-11-26T16:00Z\"]}	The information of the changes to the configuration of the resource.
ResourceId	String	i-bp19xem7lt97h973****	The ID of the resource.
ResourceName	String	ECS-test	The name of the resource.
TotalCount	Long	100	The total number of configuration changes for the specified resource.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetResourceConfigurationTimeline
&Region=cn-hangzhou
&ResourceId=i-bp19xem7lt97h973****
&ResourceType=ACS::ECS::Instance
&<Common request parameters>
```

Sample success responses

XML format

```

HTTP/1.1 200 OK
Content-Type:application/xml
<GetResourceConfigurationTimelineResponse>
  <RequestId>ED9CD1B3-286C-4E05-A765-5E1E0B9BC2AB</RequestId>
  <ResourceConfigurationTimeline>
    <ConfigurationList>
      <AccountId>987654321</AccountId>
      <ResourceCreateTime>1605237751000</ResourceCreateTime>
      <resourceEventType>DISCOVERED</resourceEventType>
      <CaptureTime>1605316711000</CaptureTime>
      <ConfigurationDiff>{"ExpiredTime":["2020-10-26T16:00Z","2020-11-26T16:00Z"]}</ConfigurationDiff>
      <ResourceId>i-bp19xem7lt97h973****</ResourceId>
      <ResourceName>ECS-test</ResourceName>
      <Region>cn-hangzhou</Region>
      <AvailabilityZone>cn-hangzhou-h</AvailabilityZone>
      <ResourceType>ACS::ECS::Instance</ResourceType>
      <Tags>{"\\\"hc\\\"":["\\\"value2\\\""]}</Tags>
    </ConfigurationList>
    <Limit>10</Limit>
    <NextToken>caeba0bbb2be03f84eb48b699f0a****</NextToken>
  </ResourceConfigurationTimeline>
</GetResourceConfigurationTimelineResponse>

```

JSON format

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId": "ED9CD1B3-286C-4E05-A765-5E1E0B9BC2AB",
  "ResourceConfigurationTimeline": {
    "ConfigurationList": [ {
      "AccountId": "987654321",
      "ResourceCreateTime": "1605237751000",
      "resourceEventType": "DISCOVERED",
      "CaptureTime": "1605316711000",
      "ConfigurationDiff": "{\\\"ExpiredTime\\\":[\\\"2020-10-26T16:00Z\\\",\\\"2020-11-26T16:00Z\\\"]}",
      "ResourceId": "i-bp19xem7lt97h973****",
      "ResourceName": "ECS-test",
      "Region": "cn-hangzhou",
      "AvailabilityZone": "cn-hangzhou-h",
      "ResourceType": "ACS::ECS::Instance",
      "Tags": "{\\\"hc\\\":[\\\"value2\\\"]}"
    } ],
    "Limit": 10,
    "NextToken": "caeba0bbb2be03f84eb48b699f0a****"
  }
}

```

Error codes

HttpCode	Error codes	Error message	Description
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
400	MemberNotBelongToMaster	The specified member does not belong to your organization.	The error message returned because the specified member account does not belong to your resource directory.
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

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

8. Rules

8.1. DescribeConfigRule

Queries the details of 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	DescribeConfigRule	The operation that you want to perform. Set the value to DescribeConfigRule .
ConfigRuleId	String	Yes	cr-7bc06457e0d90041****	The ID of the rule.
MultiAccount	Boolean	No	false	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .
MemberId	Long	No	123456789	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .

Response parameters

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

Parameter	Type	Example	Description
RequestId	String	A68DD98C-DE65-46AC-B2D2-04A4A9AB5B99	The ID of the request.
ConfigRule	Object		The details of the rule.
RiskLevel	Integer	3	The risk level of the resources that are not compliant with the rule. Valid values: • 1: high risk • 2: medium risk • 3: low risk
InputParameters	Map		The settings of the input parameters for the rule.
Source	Object		The information about the trigger of the rule.
SourceDetails	Array of SourceDetails		The source details of the rule.
MessageType	String	ConfigurationItemChangeNotification	The trigger type of the rule. Valid values: • ConfigurationItemChangeNotification: The rule is triggered by configuration changes. • ScheduledNotification: The rule is triggered as scheduled.
EventSource	String	aliyun.config	The event source of the rule.  Note Only events related to Cloud Config are supported. Set the value to aliyun.config.
MaximumExecutionFrequency	String	Six_Hours	The frequency at which the rule is executed. Valid values: • One_Hour: 1 hour • Three_Hours: 3 hours • Six_Hours: 6 hours • Twelve_Hours: 12 hours • TwentyFour_Hours: 24 hours

Parameter	Type	Example	Description
Owner	String	ALIYUN	Indicates whether you or Alibaba Cloud owns and manages the rule. Valid values: - CUSTOM_FC: The rule is a custom rule that you own. - ALIYUN: The rule is a managed rule of Alibaba Cloud.
SourceConditions	Array of SourceConditions		The trigger conditions configured for the rule.
DesiredValue	String	2	The expected value of the input parameter for the rule.
Tips	String	Instance status	The description of the input parameter.
			The operator used to compare the actual value with the input parameter value of the rule. The operator varies based on the type of data returned for the SelectPath parameter. - Valid values for the String data type: - StringEquals: The actual value is equal to the input parameter value. - NotStringEquals: The actual value is not equal to the input parameter value. - StringIn: The actual value exists in the input parameter value. - NotStringIn: The actual value does not exist in the input parameter value. - StringContains: The actual value contains the input parameter value. - NotStringContains: The actual value does not contain the input parameter value. - Valid values for the Number data type: - Equals: The actual value is equal to the input parameter value. - NotEquals: The actual value is not equal to the input parameter value. - Less: The actual value is less than the input parameter value. - LessOrEquals: The actual value is less than or equal to the input parameter value.

Parameter	Type	Example	Description
Operator	String	GreaterOrEquals	- Greater: The actual value is greater than the input parameter value. - GreaterOrEquals: The actual value is greater than or equal to the input parameter value. - Valid values for the Base64String data type that indicates a Base64-encoded string: - Base64Contains: The actual value contains the input parameter value. - NotBase64Contains: The actual value does not contain the input parameter value. - Base64ContainsAll: The actual value contains all elements of the input parameter value. - Base64ExcludeAll: The actual value excludes all elements of the input parameter value. - Valid values for the Array data type: - Contains: The actual value contains the input parameter value. - NotContains: The actual value does not contain the input parameter value. - In: The actual value exists in the input parameter value. - NotIn: The actual value does not exist in the input parameter value. - ContainsAll: The actual value contains all elements of the input parameter value. - ExcludeAll: The actual value excludes all elements of the input parameter value. - IsEmpty: The actual value is null.
Name	String	cpuCount	The name of the input parameter for the rule.
Identifier	String	rds-cpu-min-count-limit	The identifier of the rule. - For a managed rule, the value is the name of the managed rule. - For a custom rule, the value is the Alibaba Cloud Resource Name (ARN) of the custom rule.

Parameter	Type	Example	Description
ConfigRuleState	String	ACTIVE	The status of the rule. Valid values: - ACTIVE: The rule is being used to monitor resource configurations. - EVALUATING: The rule is triggered and is being used to evaluate the compliance of resources. - INACTIVE: The rule is disabled and is no longer used to monitor resource configurations.
MaximumExecutionFrequency	String	Six_Hours	The frequency at which the rule is executed. Valid values: - One_Hour: 1 hour - Three_Hours: 3 hours - Six_Hours: 6 hours - Twelve_Hours: 12 hours - TwentyFour_Hours: 24 hours
ManagedRule	Object		The details of the managed rule.
SourceDetails	Array of SourceDetails		The details of the managed rule.
MessageType	String	ConfigurationItemChangeNotification	The trigger type of the rule. Valid values: - ConfigurationItemChangeNotification: The rule is triggered by configuration changes. - ScheduledNotification: The rule is triggered as scheduled.
EventSource	String	aliyun.config	The event source of the rule.  Note Only events related to Cloud Config are supported. Set the value to aliyun.config.

Parameter	Type	Example	Description
MaximumExecutionFrequency	String	Six_Hours	The frequency at which the rule is executed. Valid values: - One_Hour: 1 hour - Three_Hours: 3 hours - Six_Hours: 6 hours - Twelve_Hours: 12 hours - TwentyFour_Hours: 24 hours
Description	String	This rule is evaluated to be compliant if the number of CPU cores for each ApsaraDB RDS instance within your account is greater than or equal to a specified threshold.	The description of the managed rule.
Labels	Array of String	["RDS", "CPU"]	The tags of the managed rule.
Identifier	String	rds-cpu-min-count-limit	The identifier of the managed rule.
OptionalInputParameterDetails	Map		The details of the optional parameters for the managed rule.
ManagedRuleName	String	rds-cpu-min-count-limit	The name of the managed rule.
CompulsoryInputParameterDetails	Map		The details of the required parameters for the managed rule.
ConfigRuleArn	String	acs:config::120886317861****:rule/cr-7bc06457e0d90041***	The ARN of the rule.

Parameter	Type	Example	Description
Description	String	This rule is evaluated to be compliant if the number of CPU cores for each ApsaraDB RDS instance within your account is greater than or equal to a specified threshold.	The description of the rule.
ConfigRuleName	String	The number of CPU cores for each ApsaraDB RDS instance within your account meets the minimum requirements.	The name of the rule.
Scope	Object		The monitoring scope of the rule.
ComplianceResourceTypes	Array of String	["ACS::RDS::DBInstance"]	The types of the resources to be evaluated.
ComplianceResourceId	String	vpc-6weoy5flv41pj4wvr***	The ID of the resource to be evaluated.
ConfigRuleEvaluationStatus	Object		The status of resource compliance evaluations based on the rule.
LastErrorCode	String	FunctionNotFound	The error code returned for the last failed evaluation.
LastSuccessfulEvaluationTimestamp	Long	1618901957876	The timestamp when the last successful evaluation of the rule ended.
FirstActivatedTimestamp	Long	1618901952341	The timestamp when the rule was first triggered.
FirstEvaluationStarted	Boolean	true	Indicates whether resources were evaluated based on the rule. Valid values: - true (default value) - false

Parameter	Type	Example	Description
LastSuccessfulInvocationTimestamp	Long	1618901957395	The timestamp when the last successful invocation of the rule started.
LastErrorMessage	String	function 'functionName' does not exist in service 'serviceName'	The error message returned for the last failed evaluation.
LastFailedEvaluationTimestamp	Long	1602819143913	The timestamp when the last failed evaluation of the rule ended.
LastFailedInvocationTimestamp	Long	1602819143910	The timestamp when the last failed invocation of the rule started.
ConfigRuleId	String	cr-7bc06457e0d90041***	The ID of the rule.
ModifiedTimestamp	Long	1602992721000	The last timestamp when the rule was modified.
CreateTimestamp	Long	1602818964884	The timestamp when the rule was created.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeConfigRule
&ConfigRuleId=cr-7bc06457e0d90041****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeConfigRuleResponse>
  <RequestId>A68DD98C-DE65-46AC-B2D2-04A4A9AB5B99</RequestId>
  <ConfigRule>
    <ManagedRule>
      <ManagedRuleName>rds-cpu-min-count-limit</ManagedRuleName>
      <OptionalInputParameterDetails />
      This rule is evaluated to be compliant if the number of CPU cores for each ApsaraDB RDS instance within your account is greater than or equal to a specified threshold. </Description>
      <Identifier>rds-cpu-min-count-limit</Identifier>
      <CompulsoryInputParameterDetails>
```

```

<cpuCount>
  <defaultValue>2</defaultValue>
  <type>integer</type>
</cpuCount>
</CompulsoryInputParameterDetails>
<Labels>RDS</Labels>
<Labels>CPU</Labels>
<SourceDetails>
  <EventSource>aliyun.config</EventSource>
  <MessageType>ConfigurationItemChangeNotification</MessageType>
</SourceDetails>
</ManagedRule>
<ConfigRuleEvaluationStatus>
  <FirstActivatedTimestamp>1618901952341</FirstActivatedTimestamp>
  <LastSuccessfulEvaluationTimestamp>1618901957876</LastSuccessfulEvaluationTimestamp>
  <FirstEvaluationStarted>true</FirstEvaluationStarted>
  <LastSuccessfulInvocationTimestamp>1618901957395</LastSuccessfulInvocationTimestamp>
</ConfigRuleEvaluationStatus>
<ConfigRuleState>ACTIVE</ConfigRuleState>
<Source>
  <Owner>ALIYUN</Owner>
  <Identifier>rds-cpu-min-count-limit</Identifier>
  <SourceConditions>
    <Operator>GreaterOrEquals</Operator>
    <DesiredValue>2</DesiredValue>
    <Required>true</Required>
    <SelectPath>$.DBInstanceCPU</SelectPath>
  </SourceConditions>
  <SourceDetails>
    <EventSource>aliyun.config</EventSource>
    <MessageType>ConfigurationItemChangeNotification</MessageType>
  </SourceDetails>
</Source>
<OrganizationRule>false</OrganizationRule>
<ConfigRuleId>cr-7bc06457e0d90041****</ConfigRuleId>
<Scope>
  <ComplianceResourceTypes>ACS::RDS::DBInstance</ComplianceResourceTypes>
</Scope>
<ConfigRuleArn>acs:config::120886317861****:rule/cr-7bc06457e0d90041****</ConfigRuleArn>
<ConfigRuleName>The number of CPU cores for each ApsaraDB RDS instance within your account meets the minimum requirements</ConfigRuleName>
<RiskLevel>3</RiskLevel>
<InputParameters>
  <cpuCount>2</cpuCount>
</InputParameters>
</ConfigRule>
</DescribeConfigRuleResponse>

```

JSON format

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId": "A68DD98C-DE65-46AC-B2D2-04A4A9AB5B99",

```

```

"ConfigRule": {
  "ManagedRule": {
    "ManagedRuleName": "rds-cpu-min-count-limit",
    "OptionalInputParameterDetails": {},
    "Description": "This rule is evaluated to be compliant if the number of CPU cores for each ApsaraDB RDS i
nstance within your account is greater than or equal to a specified threshold.",
    "Identifier": "rds-cpu-min-count-limit",
    "CompulsoryInputParameterDetails": {
      "cpuCount": {
        "defaultValue": "2",
        "type": "integer"
      }
    },
    "Labels": [ "RDS", "CPU" ],
    "SourceDetails": [ {
      "EventSource": "aliyun.config",
      "MessageType": "ConfigurationItemChangeNotification"
    } ]
  },
  "ConfigRuleEvaluationStatus": {
    "FirstActivatedTimestamp": 1618901952341,
    "LastSuccessfulEvaluationTimestamp": 1618901957876,
    "FirstEvaluationStarted": true,
    "LastSuccessfulInvocationTimestamp": 1618901957395
  },
  "ConfigRuleState": "ACTIVE",
  "Source": {
    "Owner": "ALIYUN",
    "Identifier": "rds-cpu-min-count-limit",
    "SourceConditions": [ {
      "Operator": "GreaterOrEquals",
      "DesiredValue": "2",
      "Required": true,
      "SelectPath": "$.DBInstanceCPU"
    } ],
    "SourceDetails": [ {
      "EventSource": "aliyun.config",
      "MessageType": "ConfigurationItemChangeNotification"
    } ]
  },
  "OrganizationRule": false,
  "ConfigRuleId": "cr-7bc06457e0d90041****",
  "Scope": {
    "ComplianceResourceTypes": [ "ACS::RDS::DBInstance" ]
  },
  "ConfigRuleArn": "acs:config::120886317861****:rule/cr-7bc06457e0d90041****",
  "ConfigRuleName": "The number of CPU cores for each ApsaraDB RDS instance within your account meets
the minimum requirements.",
  "RiskLevel": 3,
  "InputParameters": {
    "cpuCount": "2"
  }
}

```

Error codes

HttpCode	Error code	Error message	Description
400	ConfigRuleNotExists	The ConfigRule does not exist.	The error message returned because the specified rule does not exist.
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

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

8.2. ListConfigRules

Queries rules in Cloud Config.

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

Parameter	Type	Required	Example	Description
ConfigRuleState	String	No	ACTIVE	The status of the rule. Valid values: - ACTIVE: The rule is being used to monitor resource configurations. - EVALUATING: The rule is triggered and is being used to evaluate the compliance of resources. - INACTIVE: The rule is disabled and is no longer used to monitor resource configurations.
ComplianceType	String	No	COMPLIANT	The compliance evaluation result of the resources. Valid values: - COMPLIANT: The resource is evaluated to be compliant. - NON_COMPLIANT: The resource is evaluated to be non-compliant. - NOT_APPLICABLE: The rule does not apply to the resource. - INSUFFICIENT_DATA: The resource data is insufficient.
RiskLevel	Integer	No	1	The risk level of the resources that are not compliant with the rule. Valid values: 1: high risk 2: medium risk 3: low risk
MessageType	String	No	ConfigurationItemChangeNotification	The trigger type of the rule. Valid values: - ConfigurationItemChangeNotification: The rule is triggered by configuration changes. - ScheduledNotification: The rule is triggered as scheduled.
PageNumber	Integer	Yes	1	The number of the page to return. Pages start from page 1.
PageSize	Integer	Yes	20	The number of entries to return on each page. Valid values: 1 to 100.

Parameter	Type	Required	Example	Description
MultiAccount	Boolean	No	true	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .
MemberId	Long	No	123456789	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .
ConfigRuleName	String	No	OSS compliance management - The ACL policy of the OSS bucket prohibits public read access	The name of the rule.
CompliancePackId	String	No	cp-8d5c6457e0d9002a****	The ID of the compliance package to which the rule belongs.

Response parameters

Parameter	Type	Example	Description
RequestId	String	8195B664-9565-4685-89AC-8B5F04B44B92	The ID of the request.
ConfigRules	Object		The details of the rule.
ConfigRuleList	Array of ConfigRule		The details of the rule.
CompliancePackId	String	cp-8d5c6457e0d9002a***	The ID of the compliance package to which the rule belongs.

Parameter	Type	Example	Description
RiskLevel	Integer	1	The risk level of the resources that are not compliant with the rule. Valid values: • 1: high risk • 2: medium risk • 3: low risk
SourceOwner	String	ALIYUN	Indicates whether you or Alibaba Cloud owns and manages the rule. Valid values: • CUSTOM_FC: The rule is a custom rule that you own. • ALIYUN: The rule is a managed rule of Alibaba Cloud.
AccountId	Long	987654321	The ID of the Alibaba Cloud account that owns the rule.
ConfigRuleState	String	ACTIVE	The status of the rule. Valid values: • ACTIVE: The rule is being used to monitor resource configurations. • EVALUATING: The rule is triggered and is being used to evaluate the compliance of resources. • INACTIVE: The rule is disabled and is no longer used to monitor resource configurations.
Compliance	Object		The statistics of the compliance evaluation results based on the rule.
ComplianceType	String	COMPLIANT	The compliance evaluation result of the resources. Valid values: • COMPLIANT: The resource is evaluated to be compliant. • NON_COMPLIANT: The resource is evaluated to be non-compliant. • NOT_APPLICABLE: The rule does not apply to the resource. • INSUFFICIENT_DATA: The resource data is insufficient.
Count	Integer	161	The number of resources with the specified compliance evaluation result.

Parameter	Type	Example	Description
SourceIdentifier	String	oss-bucket-public-read-prohibited	The identifier of the rule. - For a managed rule, the value is the name of the managed rule. - For a custom rule, the value is the Alibaba Cloud Resource Name (ARN) of the custom rule.
ConfigRuleArn	String	acs:config::120886317861****:rule/cr-8d5c6457e0d9002a****	The ARN of the rule.
Description	String	This rule is evaluated to be compliant if the ACL policy of OSS buckets prohibits public read access.	The description of the rule.
CreateBy	Object		The information of the created rule.
CompliancePackageId	String	cp-8d5c6457e0d9002a****	The ID of the compliance package.
CompliancePackageName	String	OSS compliance management	The name of the compliance package.
AutomationType	String	LC	The type of the remediation template. Set the value to LC.  Note LC represents Logic Composer.
ConfigRuleName	String	OSS compliance management - The ACL policy of the OSS bucket prohibits public read access	The name of the rule.
ConfigRuleId	String	cr-8d5c6457e0d9002a****	The IDs of the rules.
PageNumber	Integer	1	The page number of the returned page. Pages start from page 1.

Parameter	Type	Example	Description
PageSize	Integer	20	The number of entries returned on each page. Valid values: 1 to 100.
TotalCount	Long	1	The total number of rules.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ListConfigRules
&PageNumber=1
&PageSize=20
&<Common request parameters>
```

Sample success responses

XML format

```

HTTP/1.1 200 OK
Content-Type:application/xml
<ListConfigRulesResponse>
  <RequestId>8195B664-9565-4685-89AC-8B5F04B44B92</RequestId>
  <ConfigRules>
    <TotalCount>1</TotalCount>
    <PageSize>20</PageSize>
    <PageNumber>1</PageNumber>
    <ConfigRuleList>
      <CompliancePackId>cp-8d5c6457e0d9002a****</CompliancePackId>
      <ConfigRuleId>cr-8d5c6457e0d9002a****</ConfigRuleId>
      <AccountId>987654321</AccountId>
      <Description> The ACL policy of the OSS bucket prohibits public read access and is considered "compliant"
    .</Description>
      <Compliance>
        <ComplianceType>COMPLIANT</ComplianceType>
        <Count>161</Count>
      </Compliance>
      <ConfigRuleArn>acs:config::120886317861****:rule/cr-8d5c6457e0d9002a****</ConfigRuleArn>
      <SourceOwner>ALIYUN</SourceOwner>
      <SourceIdentifier>oss-bucket-public-read-prohibited</SourceIdentifier>
      <CreateBy>
        <CompliancePackId>cp-8d5c6457e0d9002a628b</CompliancePackId>
        <CompliancePackName>OSS compliance management</CompliancePackName>
        <CreatorId>1208863178612953</CreatorId>
      </CreateBy>
      <ConfigRuleName>OSS compliance management - The ACL policy of the OSS bucket prohibits public read a
ccess</ConfigRuleName>
      <RiskLevel>1</RiskLevel>
      <ConfigRuleState>ACTIVE</ConfigRuleState>
    </ConfigRuleList>
  </ConfigRules>
</ListConfigRulesResponse>

```

JSON format

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId": "8195B664-9565-4685-89AC-8B5F04B44B92",
  "ConfigRules": {
    "TotalCount": 1,
    "PageSize": 20,
    "PageNumber": 1,
    "ConfigRuleList": [ {
      "CompliancePackId": "cp-8d5c6457e0d9002a****",
      "ConfigRuleId": "cr-8d5c6457e0d9002a****",
      "AccountId": "987654321",
      "Description": "This rule is evaluated to be compliant if the ACL policy of OSS buckets prohibits public read access.",
      "Compliance": {
        "ComplianceType": "COMPLIANT",
        "Count": 161
      },
      "ConfigRuleArn": "acs:config::120886317861****:rule/cr-8d5c6457e0d9002a****",
      "SourceOwner": "ALIYUN",
      "SourceIdentifier": "oss-bucket-public-read-prohibited",
      "CreateBy": {
        "CompliancePackId": "cp-8d5c6457e0d9002a628b",
        "CompliancePackName": "OSS compliance management",
        "CreatorId": "1208863178612953"
      },
      "ConfigRuleName": "OSS compliance management - The ACL policy of the OSS bucket prohibits public read access ",
      "RiskLevel": 1,
      "ConfigRuleState": "ACTIVE"
    } ]
  }
}

```

Error codes

HttpCode	Error codes	Error message	Description
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

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

8.3. PutConfigRule

Creates or 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	PutConfigRule	The operation that you want to perform. Set the value to PutConfigRule .
ConfigRuleId	String	No	cr-2a914fcf617e00c9****	The ID of the rule.
ConfigRuleName	String	Yes	The number of CPU cores for each ApsaraDB RDS instance within your account meets the minimum requirements.	The name of the rule.
Description	String	No	This rule is evaluated to be compliant if the number of CPU cores for each ApsaraDB RDS instance within your account is greater than or equal to a specified threshold.	The description of the rule.
InputParameters	String	No	{"cpuCount": "2"}	The settings of the input parameters for the rule.

Parameter	Type	Required	Example	Description
SourceOwner	String	Yes	ALIYUN	Indicates whether you or Alibaba Cloud owns and manages the rule. Valid values: - CUSTOM_FC: The rule is a custom rule that you own. - ALIYUN: The rule is a managed rule of Alibaba Cloud.
SourceIdentifier	String	Yes	rds-cpu-min-count-limit	The identifier of the rule. - For a managed rule, the value is the name of the managed rule. - For a custom rule, the value is the Alibaba Cloud Resource Name (ARN) of the custom rule.
SourceDetailMessageType	String	Yes	ConfigurationItemChangeNotification	The trigger type of the rule. Valid values: - ConfigurationItemChangeNotification: The rule is triggered by configuration changes. - ScheduledNotification: The rule is triggered as scheduled.
SourceMaximumExecutionFrequency	String	No	Twelve_Hours	The frequency at which the rule is executed. Valid values: - One_Hour: 1 hour - Three_Hours: 3 hours - Six_Hours: 6 hours - Twelve_Hours: 12 hours - TwentyFour_Hours: 24 hours
ScopeComplianceResourceId	String	No	vpc-6weoy5flv41pj4wvI****	The ID of the resource to be evaluated. - If you do not set this parameter, the rule evaluates resources of all the types specified by ScopeComplianceResourceTypes. - If you specify a resource ID, the rule evaluates the resource identified by the ID.
ScopeComplianceResourceTypes	String	Yes	["ACS::RDS::DBInstance"]	The types of the resources to be evaluated.

Parameter	Type	Required	Example	Description
RiskLevel	Integer	Yes	1	The risk level of the non-compliant resource. Valid values: 1: high risk 2: medium risk 3: low risk
ClientToken	String	No	1594295238-f9361358-5843-4294-8d30-b5183fac****	The client token that is used to ensure the idempotence of the request. You can use the client to generate the value, but you must ensure that it is unique among different requests. The token can contain only ASCII characters and cannot exceed 64 characters in length.
MultiAccount	Boolean	No	false	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .
MemberId	Long	No	123456789	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .

Response parameters

Parameter	Type	Example	Description
ConfigRuleId	String	cr-76ac4fcfb57e00c9**	The ID of the rule.
RequestId	String	A7A0FFF8-0B44-40C6-8BBF-3A185EFDF3F7	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=PutConfigRule
&ConfigRuleName=The number of CPU cores for each ApsaraDB RDS instance within your account meets the
minimum requirements.
&RiskLevel=1
&ScopeComplianceResourceTypes=["ACS::RDS::DBInstance"]
&SourceDetailMessageType=ConfigurationItemChangeNotification
&SourceIdentifier=rds-cpu-min-count-limit
&SourceOwner=ALIYUN
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<PutConfigRuleResponse>
  <ConfigRuleId>cr-76ac4fcfb57e00c9****</ConfigRuleId>
  <RequestId>A7A0FFF8-0B44-40C6-8BBF-3A185EFDF3F7</RequestId>
</PutConfigRuleResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "ConfigRuleId": "cr-76ac4fcfb57e00c9****",
  "RequestId": "A7A0FFF8-0B44-40C6-8BBF-3A185EFDF3F7"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	ExceedMaxRuleCount	The maximum number of rules is exceeded.	The error message returned because the number of created rules has reached the upper limit.
400	ConfigRuleNotExists	The ConfigRule does not exist.	The error message returned because the specified rule does not exist.
400	ConfigRuleExists	The ConfigRule already exists.	The error message returned because the name of the rule already exists.

HttpCode	Error code	Error message	Description
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

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

8.4. DeleteConfigRules

Deletes multiple rules at a time.

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	DeleteConfigRules	The operation that you want to perform. Set the value to DeleteConfigRules.
ConfigRuleIds	String	Yes	cr-2da35180a8d1008e****,cr-2da35180a8d1008e****	The IDs of the rules. Separate multiple rule IDs with commas (,). You can specify a maximum of 20 rule IDs at a time.

Response parameters

Parameter	Type	Example	Description
OperateRuleResult	Struct		The result information about the operation.
OperateRuleItem	Array of OperateRuleItem		The result information about each rule.
ConfigRuleId	String	cr-2da35180a8d1008e****	The ID of the rule.

Parameter	Type	Example	Description
ErrorCode	String	ConfigRuleCanNotDelete	The error code. - If the rule is deleted, no error code is returned. - If you fail to delete the rule, an error code is returned. For more information, visit the API Error Center.
Success	Boolean	false	Indicates whether the rule is deleted. Valid values: - true - false
RequestId	String	49C1A88F-D163-46DF-84A6-F300229F37AE	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DeleteConfigRules
&ConfigRuleIds=cr-2da35180a8d1008e****,cr-2da35180a8d1008e****
&<Common request parameters>
```

Sample success responses

XML format

```
<DeleteConfigRulesResponse>
  <OperateRuleResult>
    <OperateRuleItemList>
      <ConfigRuleId>cr-2da35180a8d1008e****</ConfigRuleId>
      <ErrorCode>ConfigRuleCanNotDelete</ErrorCode>
      <Success>>false</Success>
    </OperateRuleItemList>
    <OperateRuleItemList>
      <ConfigRuleId>cr-2da351800131233a****</ConfigRuleId>
      <ErrorCode></ErrorCode>
      <Success>>true</Success>
    </OperateRuleItemList>
    <RequestId>49C1A88F-D163-46DF-84A6-F300229F37AE</RequestId>
  </OperateRuleResult>
</DeleteConfigRulesResponse>
```

JSON format

```
{
  "OperateRuleResult": {
    "OperateRuleItemList": [
      {
        "ConfigRuleId": "cr-2da35180a8d1008e****",
        "ErrorCode": "ConfigRuleCanNotDelete",
        "Success": false
      },
      {
        "ConfigRuleId": "cr-2da351800131233a****",
        "ErrorCode": "",
        "Success": true
      }
    ],
    "RequestId": "49C1A88F-D163-46DF-84A6-F300229F37AE"
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
400	ConfigRuleCanNotDelete	The config rule cannot be deleted.	The error message returned because the specified rule cannot be deleted.
400	Invalid.ConfigRuleIds.SizeExceed	The maximum number of ConfigRuleIds cannot exceed 20.	The error message returned because you cannot delete more than 20 rules at a time.

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

8.5. StartConfigRuleEvaluation

Uses a specified rule to evaluate the compliance of target resources.

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	StartConfigRuleEvaluation	The operation that you want to perform. Set the value to StartConfigRuleEvaluation.
ConfigRuleId	String	Yes	cr-2a914fcf617e00c9****	The ID of the rule.

Response parameters

Parameter	Type	Example	Description
RequestId	String	A7A0FFF8-0B44-40C6-8BBF-3A185EFDD23A	The ID of the request.
Result	Boolean	true	Indicates whether the operation was successful. Valid values: - true: The operation was successful. - false: The operation failed.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=StartConfigRuleEvaluation
&ConfigRuleId=cr-2a914fcf617e00c9****
&<Common request parameters>
```

Sample success responses

XML format

```
<StartConfigRuleEvaluationResponse>
  <RequestId>A7A0FFF8-0B44-40C6-8BBF-3A185EFD5C2B</RequestId>
  <Result>true</Result>
</StartConfigRuleEvaluationResponse>
```

JSON format

```
{
  "RequestId": "A7A0FFF8-0B44-40C6-8BBF-3A185EFD5C2B",
  "Result": true
}
```

Error codes

HttpCode	Error code	Error message	Description
400	ConfigRuleNotExists	The ConfigRule does not exist.	The error message returned because the specified rule does not exist.
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.

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

8.6. StopConfigRules

Disables multiple rules at a time so that these rules enter the Inactive state.

Debugging

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

Request parameters

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

Parameter	Type	Required	Example	Description
ConfigRuleIds	String	Yes	cr-2da35180a8d1008e****,cr-2da35180a8d1008e****	The IDs of the rules. Separate multiple rule IDs with commas (,). You can specify a maximum of 20 rule IDs at a time.

Response parameters

Parameter	Type	Example	Description
OperateRuleResult	Struct		The result information about the operation.
OperateRuleItem	Array of OperateRuleItem		The result information about each rule.
ConfigRuleId	String	cr-2da35180a8d1008e****	The ID of the rule.
ErrorCode	String	ConfigRuleStatusNotActive	The error code. - If the rule is disabled, no error code is returned. - If you fail to disable the rule, an error code is returned. For more information, visit the API Error Center.
Success	Boolean	false	Indicates whether the rule is disabled. Valid values: - true - false
RequestId	String	49C1A88F-D163-46DF-84A6-F300229F37AE	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=StopConfigRules
&ConfigRuleIds=cr-2da35180a8d1008e****,cr-2da35180a8d1008e****
&<Common request parameters>
```

Sample success responses

XML format

```

<StopConfigRulesResponse>
  <OperateRuleResult>
    <OperateRuleItemList>
      <ConfigRuleId>cr-2da35180a8d1008e****</ConfigRuleId>
      <ErrorCode>ConfigRuleStatusNotActive</ErrorCode>
      <Success>>false</Success>
    </OperateRuleItemList>
    <OperateRuleItemList>
      <ConfigRuleId>cr-2da351800131233a****</ConfigRuleId>
      <ErrorCode></ErrorCode>
      <Success>>true</Success>
    </OperateRuleItemList>
    <RequestId>49C1A88F-D163-46DF-84A6-F300229F37AE</RequestId>
  </OperateRuleResult>
</StopConfigRulesResponse>

```

JSON format

```

{
  "OperateRuleResult": {
    "OperateRuleItemList": [
      {
        "ConfigRuleId": "cr-2da35180a8d1008e****",
        "ErrorCode": "ConfigRuleStatusNotActive",
        "Success": false
      },
      {
        "ConfigRuleId": "cr-2da351800131233a****",
        "ErrorCode": "",
        "Success": true
      }
    ],
    "RequestId": "49C1A88F-D163-46DF-84A6-F300229F37AE"
  }
}

```

Error codes

HTTP status code	Error code	Error message	Description
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

HTTP status code	Error code	Error message	Description
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
400	Invalid.ConfigRuleIds.SizeExceed	The maximum number of ConfigRuleIds cannot exceed 20.	The error message returned because you cannot disable more than 20 rules at a time.
400	ConfigRuleStatusNotActive	The status of the config rule is not active.	The error message returned because the specified rule is not in the Active state.

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

8.7. PutEvaluations

Submits the compliance evaluation results.

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	PutEvaluations	The operation that you want to perform. Set the value to PutEvaluations.
ResultToken	String	Yes	=lAUbfkWp7GL9AFoQEIStinqBMc4FC8sHvip/1F1npkWUDNS2GEm6xwL6Zl/fSr0bbkWY+aiCLjTJxnp4H/yp/8p/Q8VCA tqG5uhRii4sf nYRnTPnE****	The token used to return the response.

Parameter	Type	Required	Example	Description
Evaluations	String	No	<code>[{"annotation": "Resource type is ACS::CEN::Flowlog, not in ACS::ECS::Instance,ACS::ECS::NetworkInterface.", "complianceResourceId": "flowlog-o6wdfo1yvgo4i8****", "complianceResourceType": "ACS::CEN::Flowlog", "complianceType": "NOT_APPLICABLE", "orderingTimestamp": 1588907220408}]</code>	The compliance evaluation results.

Response parameters

Parameter	Type	Example	Description
RequestId	String	A7A0FFF8-0B44-40C6-8BBF-3A185EFD3F7	The ID of the request.
Result	Boolean	true	Indicates whether the operation was successful. Valid values: - true: The operation was successful. - false: The operation failed.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=PutEvaluations
&ResultToken==IAUbfkWp7GL9AFoQEIStinqBMc4FC8sHvip/1F1npkWUDNS2GEm6xwL6ZL/fSr0bbkWY+aiCLjT
Jxnp4H/yp/8p/Q8VCAAtqG5uhRii4sfnyRnTPnE****
&<Common request parameters>
```

Sample success responses

XML format

```
<PutEvaluationsResponse>
  <RequestId>A7A0FFF8-0B44-40C6-8BBF-3A185EFD3F7</RequestId>
  <Result>true</Result>
</PutEvaluationsResponse>
```

JSON format

```
{
  "RequestId": "A7A0FFF8-0B44-40C6-8BBF-3A185EFDF3F7",
  "Result": true
}
```

Error codes

HttpCode	Error code	Error message	Description
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.

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

8.8. DescribeEvaluationResults

Queries the compliance evaluation results of resources.

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

Parameter	Type	Required	Example	Description
ResourceType	String	No	ACS::ECS::Instance	The type of the resource. If you query the compliance evaluation results of resources by resource type, you must specify this parameter. You can call the <code>GetSupportedResourceTypes</code> operation to query the resource types supported by Cloud Config. For more information, see GetSupportedResourceTypes.  Note You must specify the <code>ResourceType</code> or <code>ConfigRuleId</code> parameter.
ResourceId	String	No	i-bp151g9tpto890zr****	The ID of the resource. If you query the compliance evaluation results of resources by resource type, you must specify this parameter.
ComplianceType	String	No	COMPLIANT	The compliance evaluation result of the resource. Valid values: - COMPLIANT: The resource is evaluated to be compliant. - NON_COMPLIANT: The resource is evaluated to be non-compliant. - NOT_APPLICABLE: The rule does not apply to the resource. - INSUFFICIENT_DATA: The resource data is insufficient.
PageNumber	Integer	No	1	The number of the page to return. Pages start from page 1.
PageSize	Integer	No	10	The number of entries to return on each page. Valid values: 1 to 100.

Parameter	Type	Required	Example	Description
ConfigRuleId	String	No	cr-2da35180a8d1008e****	The ID of the rule. If you query the compliance evaluation results of resources by rule, you must specify this parameter.  Note You must specify the ResourceType or ConfigRuleId parameter.
MultiAccount	Boolean	No	false	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups.
MemberId	Long	No	123456789	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups.

Response parameters

Parameter	Type	Example	Description
RequestId	String	D296EE41-1143-4B13-83BB-909008100130	The ID of the request.
EvaluationResults	Object		The compliance evaluation results of resources.
EvaluationResultList	Array of EvaluationResult		The details of the compliance evaluation result.

Parameter	Type	Example	Description
RiskLevel	Integer	1	The risk level of the non-compliant resource. Valid values: • 1: high risk • 2: medium risk • 3: low risk
ComplianceType	String	COMPLIANT	The compliance evaluation result of the resource. Valid values: • COMPLIANT: The resource is evaluated to be compliant. • NON_COMPLIANT: The resource is evaluated to be non-compliant. • NOT_APPLICABLE: The rule does not apply to the resource. • INSUFFICIENT_DATA: The resource data is insufficient.
ResultRecordedTimestamp	Long	1589941923432	The timestamp that was generated when the compliance evaluation result was recorded.
Annotation	String	<pre>{ "operator": "StringEquals", "property": "\$.SslProtocol", "desiredValue": "on", "configuration": "['off']" }</pre>	The annotation to the resource that is evaluated to be non-compliant.
ConfigRuleInvokedTimestamp	Long	1589941923258	The timestamp that was generated when the rule was triggered.
InvokingEventMessageType	String	ConfigurationItemChangeNotification	The trigger type of the rule. Valid values: • ConfigurationItemChangeNotification: The rule is triggered by configuration changes. • ScheduledNotification: The rule is triggered as scheduled.
EvaluationResultIdentifier	Object		The identifier of the compliance evaluation result.

Parameter	Type	Example	Description
OrderingTimestamp	Long	1589941923117	The timestamp that was generated when the compliance evaluation was performed.
EvaluationResultQualifier	Object		The information of the rule and the evaluated resource.
ConfigRuleArn	String	acs:config::120390217529****:config-rule/cr-2da35180a8d1008e****	The Alibaba Cloud Resource Name (ARN) of the rule.
ResourceType	String	ACS::ECS::Instance	The type of the evaluated resource.
ConfigRuleName	String	Enable release protection for ECS instances	The name of the rule.
ResourceId	String	i-bp151g9tpto890zr****	The ID of the evaluated resource.
ConfigRuleId	String	cr-2da35180a8d1008e****	The ID of the rule.
ResourceName	String	launch-advisor-20200330	The type of the evaluated resource.
RegionId	String	cn-hangzhou	The ID of the region.
RemediationEnabled	Boolean	false	Specifies whether to enable the remediation template. Valid values: - true - false
PageNumber	Integer	1	The page number of the returned page. Pages start from page 1.
PageSize	Integer	10	The number of entries returned on each page. Valid values: 1 to 100.
TotalCount	Long	2	The total number of compliance evaluation results.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeEvaluationResults
&ConfigRuleId=cr-2da35180a8d1008e****
&<Common request parameters>
```

Sample success responses

XML format

```

HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeEvaluationResultsResponse>
  <RequestId>D296EE41-1143-4B13-83BB-909008100130</RequestId>
  <EvaluationResults>
    <EvaluationResultList>
      <ConfigRuleInvokedTimestamp>1608262263084</ConfigRuleInvokedTimestamp>
      <ComplianceType>COMPLIANT</ComplianceType>
      <ResultRecordedTimestamp>1608262263321</ResultRecordedTimestamp>
      <InvokingEventMessageType>ConfigurationItemChangeNotification</InvokingEventMessageType>
      <EvaluationResultIdentifier>
        <EvaluationResultQualifier>
          <ConfigRuleId>cr-22726457e0d90078****</ConfigRuleId>
          <ConfigRuleArn>acs:config::120886317861****:config-rule/cr-22726457e0d90078****</ConfigRuleArn>
          <ResourceId>i-t4n0piq1mkfo1d27****</ResourceId>
          <ConfigRuleName>Enable release protection for ECS instances</ConfigRuleName>
          <ResourceType>ACS::ECS::Instance</ResourceType>
          <RegionId>cn-hangzhou</RegionId>
        </EvaluationResultQualifier>
        <OrderingTimestamp>1608262263084</OrderingTimestamp>
      </EvaluationResultIdentifier>
      <RiskLevel>3</RiskLevel>
      <RemediationEnabled>true</RemediationEnabled>
      <Annotation></Annotation>
    </EvaluationResultList>
    <EvaluationResultList>
      <ConfigRuleInvokedTimestamp>1608262263084</ConfigRuleInvokedTimestamp>
      <ComplianceType>COMPLIANT</ComplianceType>
      <ResultRecordedTimestamp>1608262263326</ResultRecordedTimestamp>
      <InvokingEventMessageType>ConfigurationItemChangeNotification</InvokingEventMessageType>
      <EvaluationResultIdentifier>
        <EvaluationResultQualifier>
          <ConfigRuleId>cr-22726457e0d90078****</ConfigRuleId>
          <ConfigRuleArn>acs:config::120886317861****:config-rule/cr-22726457e0d90078****</ConfigRuleArn>
          <ResourceId>i-2ze5o2beycwbyqnx****</ResourceId>
          <ConfigRuleName>Enable release protection for ECS instances</ConfigRuleName>
          <ResourceType>ACS::ECS::Instance</ResourceType>
          <RegionId>cn-hangzhou</RegionId>
        </EvaluationResultQualifier>
        <OrderingTimestamp>1608262263084</OrderingTimestamp>
      </EvaluationResultIdentifier>
      <RiskLevel>3</RiskLevel>
      <RemediationEnabled>false</RemediationEnabled>
      <Annotation></Annotation>
    </EvaluationResultList>
    <TotalCount>52</TotalCount>
    <PageSize>10</PageSize>
    <PageNumber>1</PageNumber>
  </EvaluationResults>
</DescribeEvaluationResultsResponse>

```

JSON format

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId": "D296EE41-1143-4B13-83BB-909008100130",
  "EvaluationResults": {
    "EvaluationResultList": [ {
      "ConfigRuleInvokedTimestamp": 1608262263084,
      "ComplianceType": "COMPLIANT",
      "ResultRecordedTimestamp": 1608262263321,
      "InvokingEventMessageType": "ConfigurationItemChangeNotification",
      "EvaluationResultIdentifier": {
        "EvaluationResultQualifier": {
          "ConfigRuleId": "cr-22726457e0d90078****",
          "ConfigRuleArn": "acs:config::120886317861****:config-rule/cr-22726457e0d90078****",
          "ResourceId": "i-t4n0piq1mkfo1d27****",
          "ConfigRuleName": "Enable release protection for ECS instances",
          "ResourceType": "ACS::ECS::Instance",
          "RegionId": "cn-hangzhou"
        },
        "OrderingTimestamp": 1608262263084
      },
      "RiskLevel": 3,
      "RemediationEnabled": true,
      "Annotation": ""
    }, {
      "ConfigRuleInvokedTimestamp": 1608262263084,
      "ComplianceType": "COMPLIANT",
      "ResultRecordedTimestamp": 1608262263326,
      "InvokingEventMessageType": "ConfigurationItemChangeNotification",
      "EvaluationResultIdentifier": {
        "EvaluationResultQualifier": {
          "ConfigRuleId": "cr-22726457e0d90078****",
          "ConfigRuleArn": "acs:config::120886317861****:config-rule/cr-22726457e0d90078****",
          "ResourceId": "i-2ze5o2beycwbbvqnx****",
          "ConfigRuleName": "Enable release protection for ECS instances",
          "ResourceType": "ACS::ECS::Instance",
          "RegionId": "cn-hangzhou"
        },
        "OrderingTimestamp": 1608262263084
      },
      "RiskLevel": 3,
      "RemediationEnabled": false,
      "Annotation": ""
    } ],
    "TotalCount": 52,
    "PageSize": 10,
    "PageNumber": 1
  }
}

```

Error codes

HttpCode	Error code	Error message	Description
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
404	CloudConfigServiceRoleNotExisted	The CloudConfigServiceRole does not exist.	The error message returned because the AliyunServiceRoleForConfig role does not exist.
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

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

8.9. DescribeCompliance

Queries the statistics of compliance evaluations based on compliance types.

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	DescribeCompliance	The operation that you want to perform. Set the value to DescribeCompliance .
ResourceType	String	No	ACS::ECS::Instance	The type of the resource. If you query compliance evaluation results by resource, you must specify the ResourceType and ResourceId parameters.

Parameter	Type	Required	Example	Description
ResourceId	String	No	i-bp151g9tpto890zr****	The ID of the resource. If you query compliance evaluation results by resource, you must specify the ResourceType and ResourceId parameters.
ComplianceType	String	No	COMPLIANT	The compliance evaluation result of the resource. Valid values: - COMPLIANT: The resource is evaluated to be compliant. - NON_COMPLIANT: The resource is evaluated to be non-compliant. - NOT_APPLICABLE: The rule does not apply to the resource. - INSUFFICIENT_DATA: The resource data is insufficient.
ConfigRuleId	String	No	cr-12b398b633820012****	The ID of the rule. If you query compliance evaluation results by resource, you must specify the ConfigRuleId, ResourceType, and ResourceId parameters. Otherwise, the ConfigRuleId parameter becomes invalid.
MultiAccount	Boolean	No	false	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups.

Parameter	Type	Required	Example	Description
MemberId	Long	No	1234567	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .

Response parameters

Parameter	Type	Example	Description
ComplianceResult	Object		The statistics of compliance evaluations.
TotalCount	Long	13	The total number of compliance evaluations. - This parameter returns the total number of evaluated resources if you set the ResourceId parameter in the request. - This parameter returns the total number of triggered rules if you set the ConfigRuleId parameter in the request.
Compliances	Array of Compliances		The compliance evaluation results based on compliance types.
ComplianceType	String	COMPLIANT	The compliance evaluation result of the resource. Valid values: - COMPLIANT: The resource is evaluated to be compliant. - NON_COMPLIANT: The resource is evaluated to be non-compliant. - NOT_APPLICABLE: The rule does not apply to the resource. - INSUFFICIENT_DATA: The resource data is insufficient.

Parameter	Type	Example	Description
Count	Integer	13	The number of compliance evaluations with the corresponding result. - This parameter returns the total number of evaluated resources if you set the ResourceId parameter in the request. - This parameter returns the total number of triggered rules if you set the ConfigRuleId parameter in the request.
RequestId	String	17306AB1-34E0-468F-BD7B-68D8AEAB754F	The ID of the request.

Examples

Sample requests

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

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeComplianceResponse>
  <RequestId>17306AB1-34E0-468F-BD7B-68D8AEAB754F</RequestId>
  <Compliances>
    <Compliances>
      <ComplianceType>NOT_APPLICABLE</ComplianceType>
      <Count>0</Count>
    </Compliances>
    <Compliances>
      <ComplianceType>NON_COMPLIANT</ComplianceType>
      <Count>5</Count>
    </Compliances>
    <Compliances>
      <ComplianceType>INSUFFICIENT_DATA</ComplianceType>
      <Count>0</Count>
    </Compliances>
    <Compliances>
      <ComplianceType>COMPLIANT</ComplianceType>
      <Count>13</Count>
    </Compliances>
  </CompliancesResponse>
</DescribeCompliance>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId": "17306AB1-34E0-468F-BD7B-68D8AEAB754F",
  "Compliances": {
    "Compliances": [ {
      "ComplianceType": "NOT_APPLICABLE",
      "Count": 0
    }, {
      "ComplianceType": "NON_COMPLIANT",
      "Count": 5
    }, {
      "ComplianceType": "INSUFFICIENT_DATA",
      "Count": 0
    }, {
      "ComplianceType": "COMPLIANT",
      "Count": 13
    } ]
  }
}
```

Error codes

HttpCode	Error code	Error message	Description
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

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

8.10. DescribeComplianceSummary

Queries the statistics of compliance evaluations from the rule and resource dimensions.

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	DescribeComplianceSummary	The operation that you want to perform. Set the value to DescribeComplianceSummary .
MultiAccount	Boolean	No	false	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .
MemberId	Long	No	123456789	This parameter is scheduled to be removed before 00:00:00, June 30, 2021. Account group-related APIs will be provided as an alternative before 00:00:00, May 30, 2021. If you are using this parameter, we recommend that you switch to account group-related APIs after 00:00:00, May 30, 2021. For more information, see Account groups .

Response parameters

Parameter	Type	Example	Description
RequestId	String	CAEE6F34-DEDC-4AAA-AA8C-946D5D008735	The ID of the request.
ComplianceSummary	Object		The summary of compliance evaluations.
ComplianceSummaryByResource	Object		The summary of compliance evaluations from the resource dimension.
CompliantCount	Integer	1	The number of resources evaluated as compliant.
NonCompliantCount	Integer	12	The number of resources evaluated as non-compliant.

Parameter	Type	Example	Description
ComplianceSummaryTimestamp	Long	1589853712165	The timestamp when the summary was recorded.
TotalCount	Long	13	The total number of resources.
ComplianceSummaryByConfigRule	Object		The summary of compliance evaluations from the rule dimension.
CompliantCount	Integer	111	The number of rules whose evaluation results are compliant.
NonCompliantCount	Integer	12	The number of rules whose evaluation results are non-compliant.
ComplianceSummaryTimestamp	Long	1589853712165	The timestamp when the summary was recorded.
TotalCount	Long	123	The total number of rules.

Examples

Sample requests

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

Sample success responses

XML format

```

HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeComplianceSummaryResponse>
  <RequestId>CAEE6F34-DEDC-4AAA-AA8C-946D5D008735</RequestId>
  <ComplianceSummary>
    <ComplianceSummaryByResource>
      <CompliantCount>29</CompliantCount>
      <NonCompliantCount>581</NonCompliantCount>
      <ComplianceSummaryTimestamp>1589853712165</ComplianceSummaryTimestamp>
    </ComplianceSummaryByResource>
    <ComplianceSummaryByConfigRule>
      <TotalCount>79</TotalCount>
      <CompliantCount>1</CompliantCount>
      <NonCompliantCount>34</NonCompliantCount>
      <ComplianceSummaryTimestamp>1589853712128</ComplianceSummaryTimestamp>
    </ComplianceSummaryByConfigRule>
  </ComplianceSummary>
  <HttpStatusCode>200</HttpStatusCode>
  <Success>true</Success>
</DescribeComplianceSummaryResponse>

```

JSON format

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId": "CAEE6F34-DEDC-4AAA-AA8C-946D5D008735",
  "ComplianceSummary": {
    "ComplianceSummaryByResource": {
      "CompliantCount": 29,
      "NonCompliantCount": 581,
      "ComplianceSummaryTimestamp": 1589853712165
    },
    "ComplianceSummaryByConfigRule": {
      "TotalCount": 79,
      "CompliantCount": 1,
      "NonCompliantCount": 34,
      "ComplianceSummaryTimestamp": 1589853712128
    }
  },
  "HttpStatusCode": 200,
  "Success": true
}

```

Error codes

HttpCode	Error code	Error message	Description
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.

HttpCode	Error code	Error message	Description
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

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

8.11. ActiveConfigRules

Enables multiple rules at a time so that these rules enter the Active state.

Debugging

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

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ActiveConfigRules	The operation that you want to perform. Set the value to ActiveConfigRules.
ConfigRuleIds	String	Yes	cr-2da35180a8d1008e****,cr-2da35180a8d1008e****	The IDs of the rules. Separate multiple rule IDs with commas (.). You can specify a maximum of 20 rule IDs at a time.

Response parameters

Parameter	Type	Example	Description
OperateRuleResult	Struct		The result information about the operation.
OperateRuleItem	Array of OperateRuleItem		The result information about each rule.
ConfigRuleId	String	cr-2da35180a8d1008e****	The ID of the rule.

Parameter	Type	Example	Description
ErrorCode	String	ConfigRuleStatusNotInActive	The error code. - If the rule is enabled, no error code is returned. - If you fail to enable the rule, an error code is returned. For more information, visit the API Error Center.
Success	Boolean	false	Indicates whether the rule is enabled. Valid values: - true - false
RequestId	String	49C1A88F-D163-46DF-84A6-F300229F37AE	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=ActiveConfigRules
&ConfigRuleIds=cr-2da35180a8d1008e****,cr-2da35180a8d1008e****
&<Common request parameters>
```

Sample success responses

XML format

```
<ActiveConfigRulesResponse>
  <OperateRuleResult>
    <OperateRuleItemList>
      <ConfigRuleId>cr-2da35180a8d1008e****</ConfigRuleId>
      <ErrorCode>ConfigRuleStatusNotInActive</ErrorCode>
      <Success>>false</Success>
    </OperateRuleItemList>
    <OperateRuleItemList>
      <ConfigRuleId>cr-2da351800131233a****</ConfigRuleId>
      <ErrorCode></ErrorCode>
      <Success>>true</Success>
    </OperateRuleItemList>
    <RequestId>49C1A88F-D163-46DF-84A6-F300229F37AE</RequestId>
  </OperateRuleResult>
</ActiveConfigRulesResponse>
```

JSON format

```
{
  "OperateRuleResult": {
    "OperateRuleItemList": [
      {
        "ConfigRuleId": "cr-2da35180a8d1008e****",
        "ErrorCode": "ConfigRuleStatusNotInActive",
        "Success": false
      },
      {
        "ConfigRuleId": "cr-2da351800131233a****",
        "ErrorCode": "",
        "Success": true
      }
    ],
    "RequestId": "49C1A88F-D163-46DF-84A6-F300229F37AE"
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
400	Invalid.ConfigRuleIds.SizeExceed	The maximum number of ConfigRuleIds cannot exceed 20.	The error message returned because you cannot enable more than 20 rules at a time.
400	ConfigRuleStatusNotInActive	The status of the config rule is not inactive.	The error message returned because the specified rule is not in the Inactive state.

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

9. Monitoring scope

9.1. StartConfigurationRecorder

Enables Cloud Config to monitor the resources of your Alibaba Cloud account.

Ordinary accounts and management accounts have the following differences when you use them to call the StartConfigurationRecorder operation:

- If you are using an ordinary account, you can call the StartConfigurationRecorder operation to activate Cloud Config for the current account. You can also view the resources of the current account and manage the compliance rules of the current account.
- If you are using the management account of a resource directory and set the `EnterpriseEdition` parameter to `true`, you can activate Cloud Config for all member accounts. In addition, a global account group that includes all member accounts is created by default. You can view the resources of all member accounts in the account group and manage the compliance rules of all member accounts.

In this topic, an ordinary account is used as an example to show how to activate Cloud Config and monitor the resources of the current account.

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	StartConfigurationRecorder	The operation that you want to perform. Set the value to StartConfigurationRecorder.
EnterpriseEdition	Boolean	No	false	Specifies whether to upgrade Cloud Config for Enterprise. Default value: false. Valid values: • true • false  Note Cloud Config for Enterprise is upgraded to the account group feature. For more information, see Announcement: Enterprise Edition Cloud Config Upgrade to Account Group.

For more information about common request parameters, see [Common parameters](#).

Response parameters

Parameter	Type	Example	Description
RequestId	String	A3601178-A6A2-4636-BE56-1116F73C0B0C	The ID of the request.
ConfigurationRecorder	Object		The details of the configuration recorder that monitors resources.
OrganizationEnableStatus	String	REGISTRABLE	The upgrade status of Cloud Config for Enterprise. Valid values: - REGISTRABLE: Cloud Config for Enterprise is not upgraded. - BUILDING: Cloud Config for Enterprise is being upgraded. - REGISTERED: Cloud Config for Enterprise is upgraded.
ConfigurationRecorderStatus	String	REGISTRABLE	The status of the configuration recorder. Valid values: - REGISTRABLE: The configuration recorder has not been registered. - BUILDING: The configuration recorder is being deployed. - REGISTERED: The configuration recorder has been registered. - REBUILDING: The configuration recorder is being redeployed.
OrganizationMasterId	Long	987654321	The ID of the management account.  Note This parameter is returned only when the operation was called by a management account.
AccountId	Long	123456789	The ID of your Alibaba Cloud account.  Note This parameter is returned only when the operation was called by an ordinary account.

Parameter	Type	Example	Description
ResourceTypes	Array of String	["ACS::ECS::Instance", "ACS::ECS::NetworkInterface"]	The types of resources that are monitored by Cloud Config. Note By default, Cloud Config returns all resource types. In the following sample responses, ACS::ECS::Instance and ACS::ECS::NetworkInterface are returned.

Examples

Sample requests

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

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<StartConfigurationRecorderResponse>
  <RequestId>A3601178-A6A2-4636-BE56-1116F73C0B0C</RequestId>
  <ConfigurationRecorder>
    <ResourceTypes>ACS::ECS::Instance</ResourceTypes>
    <ResourceTypes>ACS::ECS::NetworkInterface</ResourceTypes>
    <AccountId>123456789</AccountId>
    <ConfigurationRecorderStatus>REGISTRABLE</ConfigurationRecorderStatus>
  </ConfigurationRecorder>
</StartConfigurationRecorderResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId": "A3601178-A6A2-4636-BE56-1116F73C0B0C",
  "ConfigurationRecorder": {
    "ResourceTypes": [ "ACS::ECS::Instance", "ACS::ECS::NetworkInterface" ],
    "AccountId": "123456789",
    "ConfigurationRecorderStatus": "REGISTRABLE"
  }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
400	ProcessIsRunning	The process is running.	The error message returned because the service initialization is in progress.
400	RDMemberNoPermission	You are not authorized to perform the operation. The reasons include: 1. You have not enabled the resource directory service. 2. You are not using the administrator account of resource directory.	The error message returned because you are not authorized to perform the specified operation potentially for one of the following reasons: 1. You have not enabled a resource directory. 2. You are not using the master account of the specified resource directory.
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
500	CreateSLRFail	Failed to create SLR.	The error message returned because the service-linked role of Cloud Config failed to be created.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

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

9.2. DescribeConfigurationRecorder

Queries the types of resources that are monitored by Cloud Config.

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

Response parameters

Parameter	Type	Example	Description
ConfigurationRecorder	Struct		The details of the configuration recorder that monitors resources.
AccountId	Long	123456789	The ID of your Alibaba Cloud account.
ConfigurationRecorderStatus	String	REGISTERED	The status of the configuration recorder. Valid values: - REGISTRABLE: The configuration recorder has not been registered. - BUILDING: The configuration recorder is being deployed. - REGISTERED: The configuration recorder has been registered. - REBUILDING: The configuration recorder is being redeployed.
ResourceTypes	List	["ACS::ECS::Instance", "ACS::ECS::NetworkInterface"]	The types of resources that are monitored by Cloud Config.
RequestId	String	A3601178-A6A2-4636-BE56-1116F73C0B0C	The ID of the request.

Examples

Sample requests

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

Sample success responses

XML format

```
<DescribeConfigurationRecorderResponse>
  <RequestId>A3601178-A6A2-4636-BE56-1116F73C0B0C</RequestId>
  <ConfigurationRecorder>
    <ResourceTypes>ACS::ECS::Instance</ResourceTypes>
    <ResourceTypes>ACS::ECS::NetworkInterface</ResourceTypes>
    <AccountId>123456789</AccountId>
    <ConfigurationRecorderStatus>REGISTERED</ConfigurationRecorderStatus>
  </ConfigurationRecorder>
</DescribeConfigurationRecorderResponse>
```

JSON format

```
{
  "RequestId": "A3601178-A6A2-4636-BE56-1116F73C0B0C",
  "ConfigurationRecorder": {
    "ResourceTypes": [
      "ACS::ECS::Instance",
      "ACS::ECS::NetworkInterface"
    ],
    "AccountId": "123456789",
    "ConfigurationRecorderStatus": "REGISTERED"
  }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.

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

9.3. PutConfigurationRecorder

Modifies the types of resources that are monitored by Cloud Config.

This operation is valid only for the current Alibaba Cloud account. For more information, see [Alibaba Cloud services that support Cloud Config](#).

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	PutConfigurationRecorder	The operation that you want to perform. Set the value to PutConfigurationRecorder.
ResourceTypes	String	Yes	ACS::ECS::Instance,ACS::ECS::Disk	The types of the resources that you want Cloud Config to monitor. Separate multiple resource types with commas (,).

Response parameters

Parameter	Type	Example	Description
RequestId	String	7C189ED2-30C1-492E-82B6-0D828B556ED9	The ID of the request.
ConfigurationRecorder	Object		The details of the configuration recorder that monitors resources.
ConfigurationRecorderStatus	String	REGISTERED	The status of the configuration recorder. Valid values: - REGISTRABLE: The configuration recorder has not been registered. - BUILDING: The configuration recorder is being deployed. - REGISTERED: The configuration recorder has been registered. - REBUILDING: The configuration recorder is being redeployed.
AccountId	Long	123456789	The ID of your Alibaba Cloud account.
ResourceTypes	Array of String	["ACS::ECS::Instance","ACS::ECS::NetworkInterface"]	The types of resources that are monitored by Cloud Config.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=PutConfigurationRecorder
&ResourceTypes=ACS::ECS::Instance,ACS::ECS::Disk
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<PutConfigurationRecorderResponse>
  <RequestId>7C189ED2-30C1-492E-82B6-0D828B556ED9</RequestId>
  <ConfigurationRecorder>
    <ConfigurationRecorderStatus>REBUILDING</ConfigurationRecorderStatus>
    <ResourceTypes>ACS::ECS::Instance</ResourceTypes>
    <ResourceTypes>ACS::ECS::Disk</ResourceTypes>
    <AccountId>123456789</AccountId>
  </ConfigurationRecorder>
</PutConfigurationRecorderResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId": "7C189ED2-30C1-492E-82B6-0D828B556ED9",
  "ConfigurationRecorder": {
    "ConfigurationRecorderStatus": "REBUILDING",
    "ResourceTypes": [ "ACS::ECS::Instance", "ACS::ECS::Disk" ],
    "AccountId": "123456789"
  }
}
```

Error codes

HttpCode	Error code	Error message	Description
400	NoPermission	You are not authorized to perform this operation.	The error message returned because you are not authorized to perform the specified operation.
400	Invalid.ResourceTypes.Value	The specified resourceTypes is invalid.	The error message returned because the specified resource type is invalid.
400	ProcessIsRunning	The process is running.	The error message returned because the service initialization is in progress.

HttpCode	Error code	Error message	Description
400	RDMemberNoPermission	You are not authorized to perform the operation. The reasons include: 1. You have not enabled the resource directory service. 2. You are not using the administrator account of resource directory.	The error message returned because you are not authorized to perform the specified operation potentially for one of the following reasons: 1. You have not enabled a resource directory. 2. You are not using the master account of the specified resource directory.
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

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

10.Delivery methods

10.1. PutDeliveryChannel

Creates or modifies a delivery method.

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	PutDeliveryChannel	The operation that you want to perform. Set the value to PutDeliveryChannel.
DeliveryChannelAssumeRoleArn	String	Yes	acs:ram::100931896542****:role/aliyunserviceconfig	The Alibaba Cloud Resource Name (ARN) of the role to be assumed by the delivery method. This parameter is required when you create a delivery method.  Note If the delivery method assumes the service linked role for Cloud Config, you can specify the ARN in the format of the provided example and replace the account ID with the ID of your Alibaba Cloud account.

Parameter	Type	Required	Example	Description
DeliveryChannelTargetArn	String	Yes	acs:oss:cn-hangzhou:100931896542****:20171130--1	The ARN of the delivery destination. This parameter is required when you create a delivery method. The value must be in one of the following formats: <code>acs:oss:{RegionId}:{Aliuid}:{bucketName}</code> if your delivery destination is an Object Storage Service (OSS) bucket. <code>acs:mns:{RegionId}:{Aliuid}:/topics/{topicName}</code> if your delivery destination is a Message Service (MNS) topic. <code>acs:log:{RegionId}:{Aliuid}:project/{projectName}/logstore/{logstoreName}</code> if your delivery destination is a Log Service Logstore.
DeliveryChannelType	String	Yes	OSS	The type of the delivery method. This parameter is required when you create a delivery method. Valid values: - OSS - MNS - SLS
ClientToken	String	No	1594295238-f9361358-5843-4294-8d30-b5183fac****	The client token that is used to ensure the idempotence of the request. You can use the client to generate a token, but you must make sure that it is unique among different requests. The token cannot exceed 64 characters in length and can only contain ASCII characters.
DeliveryChannelId	String	No	cdc-193f6457e0d90080****	The ID of the delivery method. This parameter is required when you modify a delivery method.
DeliveryChannelName	String	No	testoss	The name of the delivery method.

Parameter	Type	Required	Example	Description
DeliveryChannelCondition	String	No	<pre>[{"filterType": "ResourceType", "values": ["ACS::ActionTrail::Trail", "ACS::CBWP::CommonBandwidthPackage", "ACS::CDN::Domain", "ACS::CEN::CenBandwidthPackage", "ACS::CEN::CenInstance", "ACS::CEN::Flowlog", "ACS::DdosCoo::Instance"], "multiple": true}]</pre>	The rule attached to the delivery method. This parameter is applicable only to delivery methods of the MNS type. This parameter allows you to specify the lowest risk level for the events to subscribe to and the resource types for which you want to subscribe to events. - To specify the lowest risk level for the events to subscribe to, use the following format: <code>{"filterType": "RuleRiskLevel", "value": "1", "multiple": false}</code>. - To specify the resource types for which you want to subscribe to events, use the following format: <code>{"filterType": "ResourceType", "values": ["ACS::ACK::Cluster", "ACS::ActionTrail::Trail", "ACS::CBWP::CommonBandwidthPackage"], "multiple": true}</code>. The value field indicates the lowest risk level and can be set to 1, 2, or 3, which indicates the high risk level, the medium risk level, and the low risk level, respectively. The values field indicates the resource types. Its value is a JSON array. Example: <code>[{"filterType": "ResourceType", "values": ["ACS::ActionTrail::Trail", "ACS::CBWP::CommonBandwidthPackage", "ACS::CDN::Domain", "ACS::CEN::CenBandwidthPackage", "ACS::CEN::CenInstance", "ACS::CEN::Flowlog", "ACS::DdosCoo::Instance"], "multiple": true}]</code>
Description	String	No	My OSS delivery.	The description of the delivery method.

Parameter	Type	Required	Example	Description
Status	Integer	No	1	The status of the delivery method. Valid values: 0: The delivery method is disabled. 1: The delivery destination is enabled. This is the default value.

Response parameters

Parameter	Type	Example	Description
DeliveryChannelId	String	cdc-ee0f626622af0069**	The ID of the delivery method that you created or the updated ID of the delivery method that you modified.
RequestId	String	0D6B9E0A-AD53-4732-922B-0F584ECA5FAB	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=PutDeliveryChannel
&DeliveryChannelAssumeRoleArn=acs:ram::100931896542****:role/aliyunserviceroleforconfig
&DeliveryChannelTargetArn=acs:oss:cn-hangzhou:100931896542****:20171130--1
&DeliveryChannelType=OSS
&<Common request parameters>
```

Sample success responses

XML format

```
<PutDeliveryChannelResponse>
  <RequestId>0D6B9E0A-AD53-4732-922B-0F584ECA5FAB</RequestId>
  <DeliveryChannelId>cdc-ee0f626622af0069****</DeliveryChannelId>
</PutDeliveryChannelResponse>
```

JSON format

```
{
  "RequestId": "0D6B9E0A-AD53-4732-922B-0F584ECA5FAB",
  "DeliveryChannelId": "cdc-ee0f626622af0069****"
}
```

Errors codes

HTTP status code	Error code	Error message	Description
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
400	DeliveryChannelNotExists	The delivery channel does not exist.	The error message returned because the specified delivery method does not exist.
400	Invalid.DeliveryChannelName.Empty	You must specify DeliveryChannelName.	The error message returned because the DeliveryChannelName parameter is not set.
400	Invalid.DeliveryChannelType.Empty	You must specify DeliveryChannelType.	The error message returned because the DeliveryChannelType parameter is not set.
400	Invalid.DeliveryChannelAssumeRoleArn.Empty	You must specify DeliveryChannelAssumeRoleArn.	The error message returned because the DeliveryChannelAssumeRoleArn parameter is not set.
400	Invalid.DeliveryChannelAssumeRoleArn.Format	The specified format of DeliveryChannelAssumeRoleArn is invalid.	The error message returned because the value of DeliveryChannelAssumeRoleArn is specified in an invalid format.
400	Invalid.DeliveryChannelTargetArn.Empty	You must specify DeliveryChannelTargetArn.	The error message returned because the DeliveryChannelTargetArn parameter is not set.
400	Invalid.DeliveryChannelTargetArn.Format	The specified format of DeliveryChannelTargetArn is invalid.	The error message returned because the value of DeliveryChannelTargetArn is specified in an invalid format.
400	Invalid.DeliveryChannelCondition.Format	The specified format of DeliveryChannelCondition is invalid.	The error message returned because the value of DeliveryChannelCondition is specified in an invalid format.
400	MemberNotBelongToMaster	The specified member does not belong to your organization.	The error message returned because the specified member account does not belong to your resource directory.

HTTP status code	Error code	Error message	Description
400	DeliveryChannelAccountNotSupport	Cross-account delivery that is not in the RD is not supported.	The error message returned because Cloud Config does not support event delivery across accounts that are in different resource directories.
400	DeliveryChannelMnsUnreachable	The MNS topic is unreachable.	The error message returned because the delivery request to the specified MNS topic failed.
400	DeliveryChannelOssUnreachable	The OSS bucket is unreachable.	The error message returned because the delivery request to the specified OSS bucket failed.
400	DeliveryChannelSlsUnreachable	SLS logstore is unreachable.	The error message returned because the delivery request to the specified Log Service Logstore failed.

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

10.2. DescribeDeliveryChannels

Queries the details of delivery methods.

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	DescribeDeliveryChannels	The operation that you want to perform. Set the value to DescribeDeliveryChannels.
DeliveryChannelIds	String	No	cdc-d9106457e0d900b1****,cdc-d9106457e0d900b1****	The IDs of the delivery methods. Separate multiple IDs with commas (,). For more information, see PutDeliveryChannel .

Response parameters

Parameter	Type	Example	Description
DeliveryChannels	Array of DeliveryChannel		The information about the delivery method.
DeliveryChannelAssumeRoleArn	String	acs:ram::120886317861****:role/aliyunserviceroleforconfig	The Alibaba Cloud Resource Name (ARN) of the role assumed by delivery method.
DeliveryChannelCondition	String	<pre>[{"filterType": "ResourceType", "values": ["ACS::ActionTrail::Trail", "ACS::CBWP::CommonBandwidthPackage", "ACS::CDN::Domain", "ACS::CEN::CenBandwidthPackage", "ACS::CEN::CenInstance", "ACS::CEN::Flowlog", "ACS::DdosCoo::Instance"], "multiple": true}]</pre>	The rule attached to the delivery method. This parameter is applicable only to delivery methods of the Message Service (MNS) type. This parameter indicates the lowest risk level for the events to subscribe to and the resource types for which you subscribe to events. - The setting of the lowest risk level for the events to subscribe to is in the following format: <code>{"filterType": "RuleRiskLevel", "value": "1", "multiple": false}</code>. The value field indicates the lowest risk level and can be set to 1, 2, or 3, which indicates the high risk level, the medium risk level, and the low risk level, respectively. - The setting of the resource types for which you subscribe to events is in the following format: <code>{"filterType": "ResourceType", "values": ["ACS::ACK::Cluster", "ACS::ActionTrail::Trail", "ACS::CBWP::CommonBandwidthPackage"], "multiple": true}</code>. The values field indicates the resource types. Its value is a JSON array. Example: <code>[{"filterType": "ResourceType", "values": ["ACS::ActionTrail::Trail", "ACS::CBWP::CommonBandwidthPackage", "ACS::CDN::Domain", "ACS::CEN::CenBandwidthPackage", "ACS::CEN::CenInstance", "ACS::CEN::Flowlog", "ACS::DdosCoo::Instance"], "multiple": true}]</code>
DeliveryChannelId	String	cdc-d9106457e0d900b1***	The ID of the delivery method.
DeliveryChannelName	String	myDeliveryChannel	The name of the delivery method.

Parameter	Type	Example	Description
DeliveryChannelTargetArn	String	acs:oss:cn-shanghai:120886317861****:text123457	The ARN of the delivery destination. • If DeliveryChannelType is set to OSS, the value of this parameter is the ARN of the destination Object Storage Service (OSS) bucket. • If DeliveryChannelType is set to MNS, the value of this parameter is the ARN of the destination MNS topic. • If DeliveryChannelType is set to SLS, the value is the ARN of the destination Log Service Logstore.
DeliveryChannelType	String	OSS	The type of the delivery method. Valid values: • OSS • MNS • SLS
Description	String	My OSS delivery.	The description of the delivery method.
Status	Integer	1	The status of the delivery method. Valid values: • 0: The delivery method is disabled. • 1: The delivery destination is enabled.
RequestId	String	8300C16A-5DCA-4DB4-88C1-DE0493EC409C	The ID of the request.

Examples

Sample requests

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

Sample success responses

XML format

```

<DescribeDeliveryChannelsResponse>
  <DeliveryChannels>
    <Status>1</Status>
    <Description></Description>
    <DeliveryChannelId>cdc-d9106457e0d900b1****</DeliveryChannelId>
    <DeliveryChannelName></DeliveryChannelName>
    <DeliveryChannelTargetArn>acs:oss:cn-shanghai:120886317861****:text123457</DeliveryChannelTargetArn>
    <DeliveryChannelAssumeRoleArn>acs:ram::120886317861****:role/aliyunserviceroleforconfig</DeliveryChannelAssumeRoleArn>
    <DeliveryChannelType>OSS</DeliveryChannelType>
    <DeliveryChannelCondition></DeliveryChannelCondition>
  </DeliveryChannels>
  <DeliveryChannels>
    <Status>1</Status>
    <Description></Description>
    <DeliveryChannelId>cdc-d9106457e0d900b1****</DeliveryChannelId>
    <DeliveryChannelName></DeliveryChannelName>
    <DeliveryChannelTargetArn>acs:mns:cn-hangzhou:120886317861****:/topics/testmns001</DeliveryChannelTargetArn>
    <DeliveryChannelAssumeRoleArn>acs:ram::120886317861****:role/aliyunserviceroleforconfig</DeliveryChannelAssumeRoleArn>
    <DeliveryChannelType>MNS</DeliveryChannelType>
    <DeliveryChannelCondition>[{"filterType":"RuleRiskLevel","value":"1","multiple":false}]</DeliveryChannelCondition>
  </DeliveryChannels>
  <RequestId>8300C16A-5DCA-4DB4-88C1-DE0493EC409C</RequestId>
</DescribeDeliveryChannelsResponse>

```

JSON format

```
{
  "DeliveryChannels": [
    {
      "Status": 1,
      "Description": "",
      "DeliveryChannelId": "cdc-d9106457e0d900b1****",
      "DeliveryChannelName": "",
      "DeliveryChannelTargetArn": "acs:oss:cn-shanghai:120886317861****:text123457",
      "DeliveryChannelAssumeRoleArn": "acs:ram::120886317861****:role/aliyunserveroleforconfig",
      "DeliveryChannelType": "OSS",
      "DeliveryChannelCondition": ""
    },
    {
      "Status": 1,
      "Description": "",
      "DeliveryChannelId": "cdc-d9106457e0d900b1****",
      "DeliveryChannelName": "",
      "DeliveryChannelTargetArn": "acs:mns:cn-hangzhou:120886317861****:/topics/testmns001",
      "DeliveryChannelAssumeRoleArn": "acs:ram::120886317861****:role/aliyunserveroleforconfig",
      "DeliveryChannelType": "MNS",
      "DeliveryChannelCondition": "[{\"filterType\":\"RuleRiskLevel\",\"value\":\"1\",\"multiple\":false}]"
    }
  ],
  "RequestId": "8300C16A-5DCA-4DB4-88C1-DE0493EC409C"
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	AccountNotExisted	Your account does not exist.	The error message returned because your account does not exist.
400	DeliveryChannelNotExist	The delivery channel does not exist.	The error message returned because the specified delivery method does not exist.
503	ServiceUnavailable	The request has failed due to a temporary failure of the server.	The error message returned because the service is unavailable.

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