Alibaba Cloud

CloudConfig Resource Snapshots

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C-J Alibaba Cloud

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Document conventions

Style	Description	Example
A 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.
O 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.
⑦ Note	A note indicates supplemental instructions, best practices, tips, and other content.	Onte: You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click Settings> Network> Set network type.
Bold	Bold formatting is used for buttons , menus, page names, and other UI elements.	Click OK.
Courier font	Courier font is used for commands	Run the cd /d C:/window command to enter the Windows system folder.
Italic	Italic formatting is used for parameters and variables.	bae log listinstanceid Instance_ID
[] or [a b]	This format is used for an optional value, where only one item can be selected.	ipconfig [-all -t]
{} or {a b}	This format is used for a required value, where only one item can be selected.	switch {active stand}

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1.Deliver resource snapshots to an OSS bucket

If you want to deliver resource change snapshots and scheduled resource snapshots to Object Storage Service (OSS), you must specify a bucket. After the resource snapshots are delivered to the specified bucket, you can view or download JSON files.

Prerequisites

OSS is activated. For more information, see Activate OSS.

Context

To achieve a balance between storage costs and scenario-specific requirements, we recommend that you select **Standard** for the **Storage Class** parameter when you create an OSS bucket. If you need only to store data that is infrequently accessed (once or twice each month) for a long period of time, we recommend that you select **IA** for the **Storage Class** parameter when you create an OSS bucket. For more information, see <u>Create buckets</u>.

Use an ordinary account

- 1. Log on to the Cloud Config console.
- 2. In the left-side navigation pane, choose **Delivery Services > Deliver Logs to OSS**.
- 3. On the Deliver Logs to OSS page, turn on OSS Settings.
- 4. Set the required parameters to specify an OSS bucket to store resource snapshots. The following table describes the parameters.

Parameter	Description
Region	The region where the OSS bucket resides.
Bucket	 The name of the OSS bucket. The bucket name must be unique. If you select Create Bucket, you must specify a bucket name. If you select Select Buckets, you must select an existing bucket from the Bucket drop-down list.
Server-side Encryption	Specifies whether to encrypt objects in the OSS bucket. This parameter must be specified if you select Create Bucket. Valid values: • No • AES256 • KMS

5. Click OK.

Use a management account

You can use a management account to specify an OSS bucket to receive the resource snapshots of the management account and its member accounts. The bucket must belong to the management account or a member account. Only management accounts are authorized to configure the delivery settings of resource snapshots. No member accounts have the relevant permissions.

- 1. Log on to the Cloud Config console.
- 2. In the left-side navigation pane, choose **Delivery Services > Deliver Logs to OSS**.
- 3. On the Deliver Logs to OSS page, turn on OSS Settings.
- 4. Set the required parameters to specify an OSS bucket to store resource snapshots.

You can create an OSS bucket within the management account, or select an existing OSS bucket that belongs to the management account or a member account. The OSS bucket stores the resource snapshots within the management account and its member accounts.

• To deliver resource snapshots to an OSS bucket that belongs to the management account, select **Create Bucket** or **Select Buckets**, and then set the required parameters. The following table describes the parameters.

Parameter	Description
Region	The region where the OSS bucket resides.
Bucket	 The name of the OSS bucket. The bucket name must be unique. If you select Create Bucket, you must specify a bucket name. If you select Select Buckets, you must select an existing bucket from the Bucket drop-down list.
Server-side Encryption	Specifies whether to encrypt objects in the OSS bucket. This parameter must be specified if you select Create Bucket . Valid values: • No • AES256 • KMS

 To deliver resource snapshots to an OSS bucket that belongs to a member account, select Select Buckets from Other Enterprise Management Accounts, and then set the required parameters. Before you set the parameters, make sure that the member account has available buckets. The following table describes the parameters that are used to specify the Alibaba Cloud Resource Name (ARN) of the bucket within the member account and the ARN of the role to be assumed by the member account.

Parameter	Description
-----------	-------------

Parameter	Description
	The ARN of the bucket in the member account, such as acs:oss:ap-s outheast-1:178589740730****:test123 .
The ARN of the bucket	The ARN must be in the format of acs:oss:{regionId}:{AccountID}:{b ucketName} . The following list describes the fields:
that belongs to the destination account	 {regionId} : the ID of the region where the bucket resides, such as ap-southeast-1.
	AccountID : the ID of the member account, such as 178589740730****.
	• {bucketName} : the name of the bucket, such as test123.
	The ARN of the role to be assumed by the member account. such as acs:ram::178589740730****:role/aliyunserviceroleforconfig .
	Before you set this parameter, make sure that you have obtained the ID of the member account. Then, set the parameter based on the required format.
The role ARN that belongs to the destination account	The ARN must be in the format of acs:ram::{AccountID}:role/aliyuns erviceroleforconfig . The following list describes the fields:
	{AccountID} : the ID of the member account, such as 178589740730****.
	 aliyunserviceroleforconfig : the role that authorizes Cloud Config to access other Alibaba Cloud services.

5. Click OK.

What's next

After the resource snapshots are delivered to the specified bucket, you can view or download JSON files on the **Files** page of the bucket in the OSS console. For information about the sample code that is used to deliver snapshots in the JSON format, see <u>Sample code used to deliver resource snapshots to OSS</u>.

The path of each snapshot file is in the format of /ACSLogs/AccountId/Config/RegionId/yyyy/mm/dd/.

2.Sample code used to deliver resource snapshots to OSS

You can enable the delivery feature for resource snapshots. Then, Cloud Config delivers the resource change snapshots or scheduled resource snapshots in a specified format to Object Storage Service (OSS). This topic describes the sample code that is used to deliver resource change snapshots and scheduled resource snapshots. This topic also describes the related parameters.

Use an ordinary account

• Resource change snapshots

The following table describes the parameters of resource change snapshots.

Parameter	Description
accountId	The ID of the Alibaba Cloud account that owns the resource.
arn	The Alibaba Cloud Resource Name (ARN) of the resource. For more information about the ARN formats of cloud services, see ARN formats.
regionId	The ID of the region where the resource resides.
configuration	The configurations of the resource.
configurationDiff	The resource configuration details before and after the change.
captureTime	The timestamp when Cloud Config detects a resource change event and generates a log.
resourceCreateTime	The timestamp when the resource is created.
resourceld	The ID of the resource.
resourceName	The name of the resource.
resourceType	The type of the resource. For more information about the resource types supported by Cloud Config, see Alibaba Cloud services that support Cloud Config.
tags	The tags of the resource.
resourceEvent T ype	 The type of the resource change event. Valid values: DISCOVERED: A resource is created. MODIFY: A resource is modified. REMOVE: A resource is deleted.

The following three pieces of code are used to create, modify, and delete a resource:

• Create a resource

In this example, an OSS bucket named test 123 is created in the China (Shanghai) region by using an Alibaba Cloud account. The resource configurations before and after the change are displayed in the configurationDiff parameter. The resource configurations before the change are "null".

"configurationItems":[

{

}

ł

"accountId":1208863178****,

"arn":"acs:oss:cn-shanghai:120886317****:test123",

"regionId":"cn-shanghai",

"configuration":"{"AccessControlList":{"Grant":"private"},"ServerSideEncryptionRule":{"SSEAlgo rithm":"None"},"Comment":"","CreationDate":"2020-11-16T06:50:36.000Z","Owner":{"DisplayName":" 1208863178****","ID":"1208863178****"},"StorageClass":"Standard","DataRedundancyType":"LRS"," AllowEmptyReferer":"true","Name":"test123","BucketPolicy":{"LogPrefix":"","LogBucket":""},"Extrane tEndpoint":"oss-cn-shanghai.aliyuncs.com","IntranetEndpoint":"oss-cn-shanghai-internal.aliyuncs.co m","Location":"oss-cn-shanghai"}",

"configurationDiff":"{"AccessControlList":[null,{"Grant":"private"}],"ServerSideEncryptionRule": [null,{"SSEAlgorithm":"None"}],"CreationDate":[null,"2020-11-16T06:50:36.000Z"],"Owner":[null,{"Dis playName":"1208863178****","ID":"1208863178****"}],"BucketPolicy":[null,{"LogPrefix":"","LogBucket ":""}],"StorageClass":[null,"Standard"],"ExtranetEndpoint":[null,"oss-cn-shanghai.aliyuncs.com"],"Da taRedundancyType":[null,"LRS"],"AllowEmptyReferer":[null,"true"],"IntranetEndpoint":[null,"oss-cnshanghai-internal.aliyuncs.com"],"Name":[null,"test123"],"Location":[null,"oss-cn-shanghai"]}",

```
"captureTime":1605509680560,
"resourceCreateTime":1605509436000,
"resourceId":"test123",
"resourceName":"test123",
"resourceType":"ACS::OSS::Bucket",
"tags":"{}",
"resourceEventType":"DISCOVERED"
}
],
"fileVersion":"1.0"
```

• Modify a resource

{

In this example, a referer whitelist of an OSS bucket named test456 in the China (Shanghai) region is modified by using an Alibaba Cloud account. The resource configurations before and after the change are displayed in the configurationDiff parameter. The value of the AllowEmptyReferer parameter is changed from "true" to "false".

```
"configurationItems":[
{
```

"accountId":1208863178****,

"arn":"acs:oss:cn-shanghai:1208863178****:test456",

"regionId":"cn-shanghai",

"configuration":"{"AccessControlList":{"Grant":"private"},"ServerSideEncryptionRule":{"SSEAlgo rithm":"AES256"},"Comment":"","CreationDate":"2020-03-16T08:34:49.000Z","Owner":{"DisplayName ":"1208863178****","ID":"1208863178****"},"StorageClass":"Standard","DataRedundancyType":"LRS" ,"RefererList":{"Referer":["https://www.*****.com"]},"AllowEmptyReferer":"false","Name":"testoss11 1","BucketPolicy":{"LogPrefix":"","LogBucket":""},"TagSet":{"Tag":[{"Value":"1"},"Key":"1"},{"Value":"2 ","Key":"2"},{"Value":"001","Key":"526"},{"Value":"612","Key":"612"},{"Value":"prod2","Key":"env"},{"V alue":"v0","Key":"k0"}]},"ExtranetEndpoint":"oss-cn-shanghai.aliyuncs.com","Region":"cn-shanghai", "IntranetEndpoint":"oss-cn-shanghai-internal.aliyuncs.com","Location":"oss-cn-shanghai"}",

Delete a resource

In this example, an OSS bucket named test456 in the China (Shanghai) region is deleted by using an Alibaba Cloud account. The resource configurations before and after the change are displayed in the configurationDiff parameter. The resource configurations after the change are "null".

{ "configurationItems":[

> ł "accountId":1208863178****.

"arn":"acs:oss:cn-shanghai:120886317****:"test456",

"regionId":"cn-shanghai",

"configuration":"{"AccessControlList":{"Grant":"private"},"ServerSideEncryptionRule":{"SSEAlgo rithm":"None"},"Comment":"","CreationDate":"2020-11-16T06:50:36.000Z","Owner":{"DisplayName":" 1208863178****","ID":"1208863178****"},"StorageClass":"Standard","DataRedundancyType":"LRS"," AllowEmptyReferer":"true","Name":"test456","BucketPolicy":{"LogPrefix":"","LogBucket":""},"Extrane tEndpoint":"oss-cn-shanghai.aliyuncs.com","IntranetEndpoint":"oss-cn-shanghai-internal.aliyuncs.co m","Location":"oss-cn-shanghai"}",

"configurationDiff":"{"AccessControlList":[{"Grant":"private"},null],"ServerSideEncryptionRule": [{"SSEAlgorithm":"None"},null],"CreationDate":["2020-11-16T06:50:36.000Z",null],"Owner":[{"Display Name":"1208863178****","ID":"1208863178****"},null],"BucketPolicy":[{"LogPrefix":"","LogBucket":""} ,null],"StorageClass":["Standard",null], "ExtranetEndpoint":["oss-cn-shanghai.aliyuncs.com",null],"Da taRedundancyType":["LRS",null],"AllowEmptyReferer":["true",null],"IntranetEndpoint":["oss-cn-shan ghai-internal.aliyuncs.com",null],"Name":["test456",null],"Location":["oss-cn-shanghai",null]}",

```
"captureTime":1605509680560,
   "resourceCreateTime":1605509436000,
   "resourceld":"test456",
   "resourceName":"test456",
   "resourceType":"ACS::OSS::Bucket",
   "tags":"{}",
   "resourceEventType":"REMOVE"
 }
"fileVersion":"1.0"
```

Scheduled resource snapshots

],

}

The following table describes the parameters of scheduled resource snapshots.

Parameter	Description
accountId	The ID of the Alibaba Cloud account that owns the resource.
availabilityZone	The zone where the resource resides.
regionId	The ID of the region where the resource resides.
configuration	The configurations of the resource.
resourceCreateTime	The timestamp when the resource is created.
resourceld	The ID of the resource.

Parameter	Description
resourceName	The name of the resource.
resourceType	The type of the resource. For more information about the resource types supported by Cloud Config, see Alibaba Cloud services that support Cloud Config.
tags	The tags of the resource.

In this example, the scheduled resource snapshots of an OSS bucket named test123 in the China (Shanghai) region are delivered to a specified bucket by using an Alibaba Cloud account. The following sample code is used:

{

}

```
"configurationItems":[
```

```
{
"accountId":12088631786*****,
```

- "availabilityZone":"",
- "regionId":"cn-shanghai",

"configuration":"{"AccessControlList":{"Grant":"private"},"ServerSideEncryptionRule":{"SSEAlgorit hm":"AES256"},"Comment":"","CreationDate":"2019-08-29T06:02:59.000Z","Owner":{"DisplayName":"12 088631786*****","ID":"12088631786*****"},"StorageClass":"Standard","DataRedundancyType":"LRS","R efererList":{"Referer":["https://www.*****.com"]},"AllowEmptyReferer":"false","Name":"test123","Buck etPolicy":{"LogPrefix":"","LogBucket":""},"ExtranetEndpoint":"oss-cn-shanghai.aliyuncs.com","TagSet":{ "Tag":[{"Value":"1","Key":"1"},{"Value":"2","Key":"2"},{"Value":"001","Key":"526"},{"Value":"612","Key":" 612"},{"Value":"prod2","Key":"env"},{"Value":"vo","Key":"k0"}]},"Region":"cn-shanghai,"IntranetEndpoi nt":"oss-cn-shanghai-internal.aliyuncs.com","Location":"oss-cn-shanghai"}",

```
"resourceCreateTime":1567058579000,
"resourceId":"test123",
"resourceName":"test123",
"resourceType":"ACS::OSS::Bucket",
"tags":""
}
],
"fileVersion":"1.0"
```

Use a management account

• Resource change snapshots

The following table describes the parameters of resource change snapshots.

Parameter	Description
accountId	The ID of the management account that owns the resource.
arn	The ARN of the resource. For more information about the ARN formats of cloud services, see ARN formats.
regionld	The ID of the region where the resource resides.

Parameter	Description
configuration	The configurations of the resource.
configurationDiff	The resource configuration details before and after the change.
captureTime	The timestamp when Cloud Config detects a resource change event and generates a log.
resourceCreateTime	The timestamp when the resource is created.
resourceld	The ID of the resource.
resourceName	The name of the resource.
resourceType	The type of the resource. For more information about the resource types supported by Cloud Config, see Alibaba Cloud services that support Cloud Config.
tags	The tags of the resource.
resourceEvent T ype	 The type of the resource change event. Valid values: DISCOVERED: A resource is created. MODIFY: A resource is modified. REMOVE: A resource is deleted.
resourceDirectoryId	The ID of the resource directory, such as rd-EV****.

The following three pieces of code are used to create, modify, and delete a resource:

• Create a resource

In this example, an OSS bucket named test123 is created in the China (Shanghai) region by using a management account. The management account is in a resource directory named rd-EV****. The resource configurations before and after the change are displayed in the configurationDiff parameter. The resource configurations before the change are "null".

{

{

],

}

"configurationItems":[

```
"accountId":120886317861****,
```

```
"arn":"acs:oss:cn-shanghai:120886317861****:test123",
```

"regionId":"cn-shanghai",

"configuration":"{"AccessControlList":{"Grant":"private"},"ServerSideEncryptionRule":{"SSEAlgo rithm":"None"},"Comment":"","CreationDate":"2020-11-16T06:50:36.000Z","Owner":{"DisplayName":" 120886317861****","ID":"120886317861****"},"StorageClass":"Standard","DataRedundancyType":"LR S","AllowEmptyReferer":"true","Name":"test123","BucketPolicy":{"LogPrefix":"","LogBucket":""},"Ext ranetEndpoint":"oss-cn-shanghai.aliyuncs.com","IntranetEndpoint":"oss-cn-shanghai-internal.aliyun cs.com","Location":"oss-cn-shanghai"}",

"configurationDiff":"{"AccessControlList":[null,{"Grant":"private"}],"ServerSideEncryptionRule": [null,{"SSEAlgorithm":"None"}],"CreationDate":[null,"2020-11-16T06:50:36.000Z"],"Owner":[null,{"Dis playName":"120886317861****","ID":"120886317861****"}],"BucketPolicy":[null,{"LogPrefix":"","LogB ucket":""}],"StorageClass":[null,"Standard"],"ExtranetEndpoint":[null,"oss-cn-shanghai.aliyuncs.com"],"DataRedundancyType":[null,"LRS"],"AllowEmptyReferer":[null,"true"],"IntranetEndpoint":[null,"os s-cn-shanghai-internal.aliyuncs.com"],"Name":[null,"test123"],"Location":[null,"oss-cn-shanghai"]}",

```
"captureTime":1605509680560,
   "resourceCreateTime":1605509436000,
   "resourceld":"new-bucket****"
   "resourceName":"new-bucket****",
   "resourceType":"ACS::OSS::Bucket",
   "tags":"{}",
   "resourceEventType":"DISCOVERED",
   "resourceDirectoryId":"rd-EV****"
 }
"fileVersion":"1.0"
```

• Modify a resource

In this example, a referer whitelist of an OSS bucket named test456 in the China (Shanghai) region is modified by using a management account. The management account is in a resource directory named rd-EV****. The resource configurations before and after the change are displayed in the configurationDiff parameter. The value of the AllowEmptyReferer parameter is changed from "true" to "false".

```
{
 "configurationItems":[
   {
     "accountId":120886317861****,
     "arn":"acs:oss:cn-shanghai:120886317861****:test456",
     "regionId":"cn-shanghai",
     "configuration":"{"AccessControlList":{"Grant":"private"},"ServerSideEncryptionRule":{"SSEAlgo
rithm":"AES256"},"Comment":"","CreationDate":"2020-03-16T08:34:49.000Z","Owner":{"DisplayName
":"120886317861****","ID":"120886317861****"},"StorageClass":"Standard","DataRedundancyType":"
LRS","RefererList":{"Referer":["https://www.*****.com"]},"AllowEmptyReferer":"false","Name":"testo
ss111","BucketPolicy":{"LogPrefix":"","LogBucket":""},"TagSet":{"Tag":[{"Value":"1","Key":"1"},{"Valu
e":"2","Key":"2"},{"Value":"001","Key":"526"},{"Value":"612","Key":"612"},{"Value":"prod2","Key":"env
"},{"Value":"v0","Key":"k0"}]},"ExtranetEndpoint":"oss-cn-shanghai.aliyuncs.com","Region":"cn-shang
hai","IntranetEndpoint":"oss-cn-shanghai-internal.aliyuncs.com","Location":"oss-cn-shanghai"}",
     "configurationDiff":"{"AllowEmptyReferer":["true","false"]}",
     "captureTime":1605508188495,
     "resourceCreateTime":1584347689000,
     "resourceId":"test456",
     "resourceName":"test456",
     "resourceType":"ACS::OSS::Bucket",
     "tags":"",
     "resourceEventType":"MODIFY",
     "resourceDirectoryId":"rd-EV****"
```

```
],
"fileVersion":"1.0"
```

}

}

CloudConfig

Delete a resource

{

In this example, an OSS bucket named test456 in the China (Shanghai) region is deleted by using a management account. The management account is in a resource directory named rd-EV****. The resource configurations before and after the change are displayed in the configurationDiff parameter. The resource configurations after the change are "null".

"configurationItems":[

{

"accountId":120886317861****,

"arn":"acs:oss:cn-shanghai:120886317861****:"test456",

"regionId":"cn-shanghai",

"configuration":"{"AccessControlList":{"Grant":"private"},"ServerSideEncryptionRule":{"SSEAlgo rithm":"None"},"Comment":"","CreationDate":"2020-11-16T06:50:36.000Z","Owner":{"DisplayName":" 120886317861****","ID":"120886317861****"},"StorageClass":"Standard","DataRedundancyType":"LR S","AllowEmptyReferer":"true","Name":"test456","BucketPolicy":{"LogPrefix":"","LogBucket":""},"Ext ranetEndpoint":"oss-cn-shanghai.aliyuncs.com","IntranetEndpoint":"oss-cn-shanghai-internal.aliyun cs.com","Location":"oss-cn-shanghai"}",

"configurationDiff":"{"AccessControlList":[{"Grant":"private"},null],"ServerSideEncryptionRule": [{"SSEAlgorithm":"None"},null],"CreationDate":["2020-11-16T06:50:36.000Z",null],"Owner":[{"Display Name":"120886317861****","ID":"120886317861****"},null],"BucketPolicy":[{"LogPrefix":"","LogBucke t":""},null],"StorageClass":["Standard",null], "ExtranetEndpoint":["oss-cn-shanghai.aliyuncs.com",null],"DataRedundancyType":["LRS",null],"AllowEmptyReferer":["true",null],"IntranetEndpoint":["oss-cnshanghai-internal.aliyuncs.com",null],"Name":["test456",null],"Location":["oss-cn-shanghai",null]]",

```
"captureTime":1605509680560,
   "resourceCreateTime":1605509436000,
   "resourceld":"test456",
   "resourceName":"test456",
   "resourceType":"ACS::OSS::Bucket",
   "tags":"{}",
   "resourceEventType":"REMOVE",
   "resourceDirectoryId":"rd-EV****"
 }
"fileVersion":"1.0"
```

Scheduled resource snapshots

],

}

The following table describes the parameters of scheduled resource snapshots.

Parameter	Description
accountId	The ID of the management account that owns the resource.
availabilityZone	The zone where the resource resides.
regionId	The ID of the region where the resource resides.
configuration	The configurations of the resource.
resourceCreateTime	The timestamp when the resource is created.

{

}

Parameter	Description
resourceld	The ID of the resource.
resourceName	The name of the resource.
resourceType	The type of the resource. For more information about the resource types supported by Cloud Config, see Alibaba Cloud services that support Cloud Config.
tags	The tags of the resource.

In this example, the scheduled resource snapshots of an OSS bucket named test123 in the China (Shanghai) region are delivered to a specified bucket by using a management account. The following sample code is used:

"configurationItems":[{

```
"accountId":120886317861****,
```

"availabilityZone":"",

"regionId":"cn-shanghai",

"configuration":"{"AccessControlList":{"Grant":"private"},"ServerSideEncryptionRule":{"SSEAlgorit hm":"AES256"},"Comment":"","CreationDate":"2019-08-29T06:02:59.000Z","Owner":{"DisplayName":"12 0886317861****","ID":"120886317861****"},"StorageClass":"Standard","DataRedundancyType":"LRS","R efererList":{"Referer":["https://www.*****.com"]},"AllowEmptyReferer":"false","Name":"test123","Buck etPolicy":{"LogPrefix":"","LogBucket":""},"ExtranetEndpoint":"oss-cn-shanghai.aliyuncs.com","TagSet":{ "Tag":[{"Value":"1","Key":"1"},{"Value":"2","Key":"2"},{"Value":"001","Key":"526"},{"Value":"612",Key":" 612"},{"Value":"prod2","Key":"env"},{"Value":"vo","Key":"k0"}]},"Region":"cn-*****","IntranetEndpoint": "oss-cn-shanghai-internal.aliyuncs.com","Location":"oss-cn-shanghai"}",

```
"resourceCreateTime":1567058579000,
"resourceId":"test123",
"resourceName":"test123",
"resourceType":"ACS::OSS::Bucket",
"tags":""
}
],
"fileVersion":"1.0"
```