

Alibaba Cloud ApsaraDB for Cassandra

SDK reference

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Document conventions

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

Style	Description	Example
{ } 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 SDK reference

This topic describes the SDKs for ApsaraDB for Cassandra OpenApi. The SDKs are used to manage ApsaraDB for Cassandra instances. For example, you can create, scale out, and delete instances, configure whitelists, and manage tags. Note that Alibaba Cloud SDK for Java is different from the SDKs used to access Cassandra instances. The ApsaraDB for Cassandra API supports the following SDK types.

Alibaba Cloud SDK	Alibaba Cloud Cassandra SDK	Documentation
Alibaba Cloud SDK for Java	Alibaba Cloud Cassandra SDK for Java	Quick start
Alibaba Cloud SDK for Python	Alibaba Cloud Cassandra SDK for Python	Quick start
Alibaba Cloud SDK for Go	Alibaba Cloud Cassandra SDK for Go	Quick start

Note: The following versions are for reference only. Download the latest versions of SDKs through Maven.

```
<dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-cassandra</artifactId>
  <version>1.0.0</version>
</dependency>
<dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-core</artifactId>
  <version>4.4.7</version>
</dependency>
```

2 API reference for Alibaba Cloud Cassandra SDK for Java

This topic describes how to install Alibaba Cloud SDK for Java and call the ApsaraDB for Cassandra API. By using Alibaba Cloud SDK for Java, you can manage ApsaraDB for Cassandra instances without the need of coding. For example, you can create, upgrade, and delete instances, configure whitelists, and manage tags. For more information, see API reference. Note that Alibaba Cloud SDK for Java is different from the SDKs used to access Cassandra instances.

1. [Create an AccessKey](#)

Debugging

Alibaba Cloud provides [OpenAPI Explorer](#) to simplify API usage. You can use OpenAPI Explorer to search for API operations, call API operations, and dynamically generate SDK sample code. On the OpenAPI Explorer web interface, select ApsaraDB for Cassandra. A list of operations is displayed, and sample code in various languages is provided for your reference.

1. Download and install Alibaba Cloud SDK for Java

Note: Download the latest versions of SDKs through Maven.

2. Sample code

1) You can call `DescribeClusterRequest` to query the details of a Cassandra instance.

① Set environment parameters.

```
DefaultProfile profile = DefaultProfile.getProfile("cn-hangzhou",
    "LTAI4FvzUftE*****", "PxPzgelK1XCkWBXW*****");
// The following parameters are optional. You can use the default settings.
DefaultProfile.addEndpoint(
    "cn-hangzhou", // The region ID.
    "cassandra", // The product code.
    "hbase.aliyuncs.com" // The endpoint, which is the domain name.
);
```

② Initialize the client.

```
IAcsClient client = new DefaultAcsClient(profile);
```

③ Construct the request object.

```
DescribeClusterRequest request = new DescribeClusterRequest();
```

```
request.setClusterId("cds-wz9bui92****697r");
```

④ Initiate a call.

```
DescribeClusterResponse response;
try {
    response = client.getAcsResponse(request);
    System.out.println(new Gson().toJson(response));
} catch (ClientException e) {
    e.printStackTrace();
}
```

Sample requests

```
DefaultProfile profile = DefaultProfile.getProfile("cn-hangzhou",
    "ak*****", "akSecret*****");
DefaultProfile.addEndpoint(
    "cn-hangzhou", // The region ID.
    "cassandra", // The product code.
    "hbase.aliyuncs.com" // The endpoint, which is the domain name.
);

IAcsClient client = new DefaultAcsClient(profile);

DescribeClusterRequest request = new DescribeClusterRequest();
request.setClusterId("cds-wz9bui92****697r");
DescribeClusterResponse response;
try {
    response = client.getAcsResponse(request);
    System.out.println(new Gson().toJson(response));
} catch (ClientException e) {
    e.printStackTrace();
}
```

Sample responses

```
{
  "RequestId": "3B235CE2-2339-42A8-A11D-5F7548519AD2",
  "Cluster": {
    "Status": "Running",
    "MajorVersion": "3.11",
    "CreatedTime": "2020-04-21T08:50:04Z",
    "ClusterId": "cds-wz9bui92****6973",
    "MinorVersion": "3.11.9",
    "PayType": "PayAsYouGo",
    "LockMode": "Expired",
    "IsLatestVersion": true,
    "MaintainEndTime": "22:00Z",
    "DataCenterCount": 1,
    "ClusterName": "auto_test20200421170214",
    "MaintainStartTime": "18:00Z",
    "Tags": {
      "Tag": [
        {
          "Value": "1",
          "Key": "test"
        },
        {
          "Value": "2",
          "Key": "test2"
        }
      ]
    }
  }
}
```

```

    ]
  }
}
}

```

2) You can call `CreateCluster` to create a Cassandra instance.

① Set environment parameters.

```

DefaultProfile profile = DefaultProfile.getProfile("cn-hangzhou",
    "LTAI4FrvzUftE*****", "PxPzgelK1XCKWBXW*****");
// The following parameters are optional. You can use the default settings.
DefaultProfile.addEndpoint(
    "cn-hangzhou", // The region ID.
    "cassandra", // The product code.
    "hbase.aliyuncs.com" // The endpoint, which is the domain name.
);

```

② Initialize the client.

```
IAcsClient client = new DefaultAcsClient(profile);
```

③ Construct the request object.

```

CreateClusterRequest request = new CreateClusterRequest();
request.setPayType("PayAsYouGo");
request.setRegionId("cn-hangzhou");
request.setZoneId("cn-hangzhou-e");
request.setMajorVersion("3.11");
request.setInstanceType("cassandra.c.large");
request.setNodeCount("2");
request.setVpcId("vpc-wz9s6dl6nttp1****ydur");
request.setVswitchId("vsw-wz9c90poaus9q****1dnl");

request.setPeriodUnit("Year"); //You must specify this parameter if the billing
method is Subscription.
request.setPeriod("12"); //You must specify this parameter if the billing
method is Subscription.
request.setAutoRenew("false"); //You must specify this parameter if the billing
method is Subscription.
request.setAutoRenewPeriod("3"); //You must specify this parameter if the billing
method is Subscription.
request.setClientToken("ETnLklblzczshOTUboCzxxxxxxxxxxx");
request.setClusterName("cassandra_01");
request.setDataCenterName("cassandra_dc_01");
request.setDiskType("cloud_ssd");
request.setDiskSize("160");
request.setPassword("Cassandra1@!");

```

④ Initiate a call.

```

CreateClusterResponse response;
try {
    response = client.getAcsResponse(request);
    System.out.println(new Gson().toJson(response));
} catch (ClientException e) {
    e.printStackTrace();
}

```

```
}

```

Sample requests

```
DefaultProfile profile = DefaultProfile.getProfile("cn-hangzhou",
    "ak*****", "akSecret*****");
DefaultProfile.addEndpoint(
    "cn-hangzhou", // The region ID.
    "cassandra", // The product code.
    "hbase.aliyuncs.com" // The endpoint, which is the domain name.
);

IAcsClient client = new DefaultAcsClient(profile);

CreateClusterRequest request = new CreateClusterRequest();
request.setPayType("PayAsYouGo");
request.setRegionId("cn-hangzhou");
request.setZoneId("cn-hangzhou-e");
request.setMajorVersion("3.11");
request.setInstanceType("cassandra.c.large");
request.setNodeCount("2");
request.setVpcId("vpc-wz9s6dl6nttp1****ydur");
request.setVswitchId("vsw-wz9c90poaus9q****1dxl");

request.setPeriodUnit("Year"); //You must specify this parameter if the billing
method is Subscription.
request.setPeriod("12"); //You must specify this parameter if the billing
method is Subscription.
request.setAutoRenew("false"); //You must specify this parameter if the billing
method is Subscription.
request.setAutoRenewPeriod("3"); //You must specify this parameter if the billing
method is Subscription.
request.setClientToken("ETnLklblzczshOTUboCzxxxxxxxxxx");
request.setClusterName("cassandra_01");
request.setDataCenterName("cassandra_dc_01");
request.setDiskType("cloud_ssd");
request.setDiskSize("160");
request.setPassword("Cassandra1@!");
CreateClusterResponse response;
try {
    response = client.getAcsResponse(request);
    System.out.println(new Gson().toJson(response));
} catch (ClientException e) {
    e.printStackTrace();
}
```

Sample responses

```
{
  "ClusterId": "hb-bp16o0pd5****582s",
  "RequestId": "728C7EAF-4844-4D42-9BBE-DFFFBB77CF33"
}
```

3) You can call `ResizeNodeCount` to resize disks.

- ① Set environment parameters.

```
DefaultProfile profile = DefaultProfile.getProfile("cn-hangzhou",
    "LTAI4FnvzUftE*****", "PxPzgelK1XCkWBXW*****");
// The following parameters are optional. You can use the default settings.
```

```
DefaultProfile.addEndpoint(
    "cn-hangzhou", // The region ID.
    "cassandra", // The product code.
    "hbase.aliyuncs.com" // The endpoint, which is the domain name.
);
```

② Initialize the client.

```
IAcsClient client = new DefaultAcsClient(profile);
```

③ Construct the request object.

```
ResizeNodeCountRequest request = new ResizeNodeCountRequest();
request.setClusterId("cds-bp1b136j****5d59");
request.setDataCenterId("cn-hangzhou-g");
request.setNodeCount("3");
```

④ Initiate a call.

```
ResizeNodeCountResponse response;
try {
    response = client.getAcsResponse(request);
    System.out.println(new Gson().toJson(response));
} catch (ClientException e) {
    e.printStackTrace();
}
```

Sample requests

```
DefaultProfile profile = DefaultProfile.getProfile("cn-hangzhou",
    "ak*****", "akSecret*****");
DefaultProfile.addEndpoint(
    "cn-hangzhou", // The region ID.
    "cassandra", // The product code.
    "hbase.aliyuncs.com" // The endpoint, which is the domain name.
);

IAcsClient client = new DefaultAcsClient(profile);

ResizeNodeCountRequest request = new ResizeNodeCountRequest();
request.setClusterId("cds-bp1b136j****5d59");
request.setDataCenterId("cn-hangzhou-g");
request.setNodeCount("3");

ResizeNodeCountResponse response;
try {
    response = client.getAcsResponse(request);
    System.out.println(new Gson().toJson(response));
} catch (ClientException e) {
    e.printStackTrace();
}
```

Sample responses

```
{
  "RequestId": "D7D3088F-AA4F-49C3-BB46-B04F3E35041A"
```

```
}

```

4) You can call DeleteCluster to delete a cluster with a specified ID.

- ① Set environment parameters.

```
DefaultProfile profile = DefaultProfile.getProfile("cn-hangzhou",
    "LTAI4FvzUftE*****", "PxPzgelK1XCkWBXW*****");
// The following parameters are optional. You can use the default settings.
DefaultProfile.addEndpoint(
    "cn-hangzhou", // The region ID.
    "cassandra", // The product code.
    "hbase.aliyuncs.com" // The endpoint, which is the domain name.
);

```

- ② Initialize the client.

```
IACsClient client = new DefaultAcClient(profile);

```

- ③ Construct the request object.

```
DeleteClusterRequest request = new DeleteClusterRequest();
request.setClusterId("cds-bp1hy2ipk****46k");

```

- ④ Initiate a call.

```
DeleteClusterResponse response;
try {
    response = client.getAcResponse(request);
    System.out.println(new Gson().toJson(response));
} catch (ClientException e) {
    e.printStackTrace();
}

```

Sample requests

```
DefaultProfile profile = DefaultProfile.getProfile("cn-hangzhou",
    "ak*****", "akSecret*****");
DefaultProfile.addEndpoint(
    "cn-hangzhou", // The region ID.
    "cassandra", // The product code.
    "hbase.aliyuncs.com" // The endpoint, which is the domain name.
);

IACsClient client = new DefaultAcClient(profile);

DeleteClusterRequest request = new DeleteClusterRequest();
request.setClusterId("cds-bp1hy2ipk****46k");

DeleteClusterResponse response;
try {
    response = client.getAcResponse(request);
    System.out.println(new Gson().toJson(response));
} catch (ClientException e) {
    e.printStackTrace();
}

```

```
}
```

Sample responses

```
{  
  "RequestId": "728C7EAF-4844-4D42-9BBE-DFFFBB77CF33"  
}
```