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ApsaraDB for MongoDB  
SDK Reference

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# Document conventions

Style	Description	Example
 <b>Danger</b>	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 <b>Danger:</b> Resetting will result in the loss of user configuration data.
 <b>Warning</b>	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 <b>Warning:</b> Restarting will cause business interruption. About 10 minutes are required to restart an instance.
 <b>Notice</b>	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	 <b>Notice:</b> If the weight is set to 0, the server no longer receives new requests.
 <b>Note</b>	A note indicates supplemental instructions, best practices, tips, and other content.	 <b>Note:</b> You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click <b>Settings&gt; Network&gt; Set network type</b> .
<b>Bold</b>	Bold formatting is used for buttons, menus, page names, and other UI elements.	Click <b>OK</b> .
<b>Courier font</b>	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.Download SDKs

This topic describes the SDKs supported on ApsaraDB for MongoDB.

- [SDK for Java](#)
- [SDK for Python](#)
- [SDK for PHP](#)
- [SDK for .NET](#)
- [SDK for Go](#)


For more information, see the README files on GitHub.

## 2. Java SDK

This topic describes how to use the Java Software Developer Kit (SDK) of ApsaraDB for MongoDB. Examples are also provided for your reference.

### Prerequisites

- An AccessKey pair is created. For more information, see [Create an AccessKey pair](#).

 **Warning** To protect the AccessKey pair of your Alibaba Cloud account, we recommend that you create a RAM user, grant the RAM user the permissions to access ApsaraDB for MongoDB, and then use the AccessKey of the RAM user to call the Java SDK. For more information, see [Resource Access Management](#).

- You have downloaded the SDK installation package of ApsaraDB for MongoDB. For more information, see [Download SDKs](#).

### Install the SDK

For more information, see [Install Alibaba Cloud SDK for Java](#).

### Procedure

1. Set the region and AccessKey pair.

```
IClientProfile profile = DefaultProfile.getProfile("<RegonId>","<accessKeyId>","<accessSecret>");
```

 **Note**

- <RegonId>: the region ID.
- <accessKeyId>: the AccessKey ID of the RAM user.
- <accessSecret>: the AccessKey secret of the RAM user.

2. (Optional)Set the endpoint.An endpoint is the API server address of an Alibaba Cloud service. Each service may have different endpoints in different regions. An endpoint addressing module is built in the Alibaba Cloud SDK. When you call the SDK to initiate a request to a service, the SDK automatically identifies the endpoint based on the region ID that you specified when creating the SDK client and the service ID. Therefore, this step is optional. For more information about the endpoints of different regions, see [Endpoints](#).

```
DefaultProfile.addEndpoint("<endpointName>","<RegonId>", "dds", "<domain>");
```

 **Note**

- <endpointName>: the name of the endpoint.
- <RegonId>: the region ID. For more information, see [Regions and zones](#).
- <domain>: the endpoint information. For more information, see [Endpoints](#).

3. Initiate the client.

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

#### 4. Create an API request and configure its parameters.

The following code is based on the DescribeAccounts request.

```
DescribeAccountsRequest request = new DescribeAccountsRequest();
request.setDBInstanceId("dds-*****");
request.setAccountName("root");
```

#### 5. View the response.

```
DescribeAccountsResponse response = client.getAcsResponse(request);
```

## Sample request

```
import com.alibaba.fastjson.JSON;
import com.aliyuncs.DefaultAcsClient;
import com.aliyuncs.dds.model.v20151201.DescribeAccountsRequest;
import com.aliyuncs.dds.model.v20151201.DescribeAccountsResponse;
import com.aliyuncs.profile.DefaultProfile;
import com.aliyuncs.profile.IClientProfile;

public class ApiDescribeAccountsTest {
    IClientProfile profile = DefaultProfile.getProfile("cn-qingdao", "*****", "*****");
    //Initialize the client.
    DefaultAcsClient client = new DefaultAcsClient(profile);
    DescribeAccountsRequest request = new DescribeAccountsRequest();
    request.setDBInstanceId("dds-*****");
    request.setAccountName("root");
    try {
        DescribeAccountsResponse response = client.getAcsResponse(request);
        String s = JSON.toJSONString(response);
        System.out.println(s);
    }
    catch (Exception e) {
        e.printStackTrace();
    }
}
```

## Sample response

```
{"accounts":[{"accountName":"root","accountStatus":"Available","dbInstanceId":"dds-*****"}],"requestId":"4D*****-9640ED88F3C4"}
```

## References

For more information, see [Use Alibaba Cloud SDK for Java](#).