

Alibaba Cloud ApsaraDB for MongoDB

SDK reference

Issue: 20200519









Legal disclaimer

Alibaba Cloud reminds you to carefully read and fully understand the terms and conditions of this legal disclaimer before you read or use this document. If you have read or used this document, it shall be deemed as your total acceptance of this legal disclaimer.

1. You shall download and obtain this document from the Alibaba Cloud website or other Alibaba Cloud-authorized channels, and use this document for your own legal business activities only. The content of this document is considered confidential information of Alibaba Cloud. You shall strictly abide by the confidentiality obligations. No part of this document shall be disclosed or provided to any third party for use without the prior written consent of Alibaba Cloud.
2. No part of this document shall be excerpted, translated, reproduced, transmitted, or disseminated by any organization, company, or individual in any form or by any means without the prior written consent of Alibaba Cloud.
3. The content of this document may be changed due to product version upgrades, adjustments, or other reasons. Alibaba Cloud reserves the right to modify the content of this document without notice and the updated versions of this document will be occasionally released through Alibaba Cloud-authorized channels. You shall pay attention to the version changes of this document as they occur and download and obtain the most up-to-date version of this document from Alibaba Cloud-authorized channels.
4. This document serves only as a reference guide for your use of Alibaba Cloud products and services. Alibaba Cloud provides the document in the context that Alibaba Cloud products and services are provided on an "as is", "with all faults" and "as available" basis. Alibaba Cloud makes every effort to provide relevant operational guidance based on existing technologies. However, Alibaba Cloud hereby makes a clear statement that it in no way guarantees the accuracy, integrity, applicability, and reliability of the content of this document, either explicitly or implicitly. Alibaba Cloud shall not bear any liability for any errors or financial losses incurred by any organizations, companies, or individuals arising from their download, use, or trust in this document. Alibaba Cloud shall not, under any circumstances, bear responsibility for any indirect, consequential, exemplary, incidental, special, or punitive damages, including lost profits arising from the use or trust in this document, even if Alibaba Cloud has been notified of the possibility of such a loss.

5. By law, all the contents in Alibaba Cloud documents, including but not limited to pictures, architecture design, page layout, and text description, are intellectual property of Alibaba Cloud and/or its affiliates. This intellectual property includes, but is not limited to, trademark rights, patent rights, copyrights, and trade secrets. No part of this document shall be used, modified, reproduced, publicly transmitted, changed, disseminated, distributed, or published without the prior written consent of Alibaba Cloud and/or its affiliates. The names owned by Alibaba Cloud shall not be used, published, or reproduced for marketing, advertising, promotion, or other purposes without the prior written consent of Alibaba Cloud. The names owned by Alibaba Cloud include, but are not limited to, "Alibaba Cloud", "Aliyun", "HiChina", and other brands of Alibaba Cloud and/or its affiliates, which appear separately or in combination, as well as the auxiliary signs and patterns of the preceding brands, or anything similar to the company names, trade names, trademarks, product or service names, domain names, patterns, logos, marks, signs, or special descriptions that third parties identify as Alibaba Cloud and/or its affiliates.
6. Please contact Alibaba Cloud directly if you discover any errors in this document.

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}

Contents

Legal disclaimer.....	I
Document conventions.....	I
1 Download the SDK.....	1
2 Java SDK.....	2

1 Download the SDK

This document describes the SDKs supported by apsaradb for MongoDB.

- [SDK for Java](#)
- [OSS SDK for Python](#)
- [OSS 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 the SDK](#).

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("<RegionId>", "<accessKeyId>", "<accessSecret>");
```



Note:

- <RegionId>: 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 [#unique_5/unique_5_Connect_42_section_ers_gk4_kfb](#).

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



Note:

- <endpointName>: the name of the endpoint.
- <RegionId>: the region ID. For more information, see [Regions and zones](#).
- <domain>: the endpoint information. For more information, see [#unique_5/unique_5_Connect_42_section_ers_gk4_kfb](#).

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

```
port 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](#).