# Alibaba Cloud Resource Orchestration Service

**Common Tools** 

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## **Generic conventions**

Table -1:	Style co	nventions
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Style	Description	Example	
•	This warning information 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.	
	This warning information 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 restore business.	
	This indicates warning informatio n, supplementary instructions, and other content that the user must understand.	• Notice: Take the necessary precautions to save exported data containing sensitive information.	
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	Note: You can use Ctrl + A to select all files.	
>	Multi-level menu cascade.	Settings > Network > Set network type	
Bold	It is used for buttons, menus , page names, and other UI elements.	Click OK.	
Courier font	It is used for commands.	Run the cd / d C :/ windows command to enter the Windows system folder.	
Italics	It is used for parameters and variables.	bae log list instanceid Instance_ID	
[] or [a b]	It indicates that it is a optional value, and only one item can be selected.	ipconfig [-all -t]	

Style	Description	Example
{} or {a b}	It indicates that it is a required value, and only one item can be selected.	<pre>swich {stand   slave}</pre>

### Contents

Legal disclaimer	. I
Generic conventions	. I
1 Command line tools	.1
1.1 Quick installation	. 1

# 1 Command line tools

### 1.1 Quick installation

Resource Orchestration Service (ROS) allows you to create, view, update, and delete resource stacks by using Alibaba Cloud Command Line Interface (CLI).

#### Overview

You can install Alibaba Cloud CLI by using the installation package or compiling the source code. This topic describes how to install Alibaba Cloud CLI by using the installation package. If you want to install Alibaba Cloud CLI by compiling the source code, see ../../SP\_525/DNICMS19101929/EN-US\_TP\_475354.dita#task\_592879.

Alibaba Cloud CLI can be installed and used in the Windows, Linux, and macOS (x64) operating systems. You can see the reference document for each installation method listed in the following table, and follow the installation guide to install Alibaba Cloud CLI.

Installation method	Reference document	
Use the installation package.	Refer to the installation procedure for your operating system in this topic.	
	• Windows	
	• Linux	
	• macOS	
Compile the source code.	//SP_525/DNICMS19101929/EN- US_TP_475354.dita#task_592879	

#### Scenarios

- You cannot access the ROS console.
- You need to manage resource stacks by calling API operations, such as viewing and deleting resource stacks and viewing resource types.

#### Download and install Alibaba Cloud CLI

You can install Alibaba Cloud CLI by using the installation package.

#### Windows

- Download the aliyun-cli-windows-3.0.16-amd64.zip package from Alibaba Cloud official website or GitHub.
- Decompress the aliyun-cli-windows-3.0.16-amd64.zip package to obtain the executable file aliyun.exe.
- Configure the Path environment variable. Add the path of the directory where the aliyun.exe file is stored to the Path environment variable.
  - Go to the Environment Variables dialog box, select the Path environment variable from user variables, and click Edit.
  - Enter the path of the directory where the aliyun.exe file is stored.
  - Click OK sequentially to apply the change.
  - Open the command-line interface and run the corresponding command to check whether the Path environment variable is configured.

#### **CMD: Try online**

set path

**PowerShell:** Try online

```
env : path
```

• Run the following command on the command-line interface to check whether Alibaba Cloud CLI is installed: Try online

aliyun version

If the current version number of Alibaba Cloud CLI similar to the following is displayed, Alibaba Cloud CLI is installed:

3.0.16

#### Linux

- Download the aliyun-cli-linux-3.0.16-amd64.tgz package from Alibaba Cloud official website or GitHub.
- Decompress the aliyun-cli-linux-3.0.16-amd64.tgz package to obtain the executable file aliyun.

cd \$ HOME / aliyun

tar xzvf aliyun - cli - linux - 3 . 0 . 16 - amd64 . tgz

Note:

The preceding commands assume that the aliyun-cli-linux-3.0.16-amd64.tgz package is downloaded to the \$HOME/aliyun directory and decompress it in this directory.

• Copy the aliyun file to the /usr/local/bin directory. Try online

```
sudo cp aliyun / usr / local / bin
Note:
If you are the root user, remove sudo from the command.
```

macOS

- Download the aliyun-cli-macosx-3.0.16-amd64.tgz package from Alibaba Cloud official website or GitHub.
- Decompress the aliyun-cli-macosx-3.0.16-amd64.tgz package to obtain the executable file aliyun.

```
cd $ HOME / aliyun
tar xzvf aliyun - cli - macosx - 3 . 0 . 16 - amd64 . tgz
```

### Note:

The preceding commands assume that the aliyun-cli-macosx-3.0.16-amd64.tgz package is downloaded to the \$HOME/aliyun directory and decompress it in this directory.

Copy the aliyun file to the /usr/local/bin directory. Try online



#### **Configure Alibaba Cloud CLI**

Before using Alibaba Cloud CLI, you must configure information required to call Alibaba Cloud resources, including the credential, region, and language.

#### Credential type

To specify the credential type, you can add the --mode <authenticationMethod> option to the configure command in Alibaba Cloud CLI. Currently, four credential types are supported.

Credential type	Description	Interactive credential configuration (fast)	Non-interactiv e credential configuration
АК	Use the AccessKey ID and AccessKey Secret to authorize access.	Configure AccessKey credential	Configure AccessKey credential
StsToken	Use a Security Token Service (STS ) token to authorize access.	Configure STS token credential	Configure STS token credential
RamRoleArn	Use the role of a Resource Access Management (RAM ) user to authorize access.	Configure RamRoleArn credential	Configure RamRoleArn credential
EcsRamRole	Use the RAM role of an Elastic Compute Service (ECS) instance to authorize password -free access.	Configure EcsRamRole credential	Configure EcsRamRole credential



In the four credential types, only EcsRamRole does not require the AccessKey information.

#### Configure the credential

You can specify the credential type and configure the credential in Alibaba Cloud CLI in interactive or non-interactive mode. This topic describes how to configure the AccessKey credential in interactive mode. For more information about how to configure other credential types and the non-interactive configuration mode, see Method of configuring credentials.

- Interactive configuration (fast): This mode is convenient and fast. You only need to enter required information as prompted.
- Non-interactive configuration: In this mode, you configure all required informatio n in a single command, including the profile name, credential type, and authentica tion information of the credential.

#### Interactive configuration introduction

Run the configure command to configure the credential. Use the following command syntax:

```
aliyun configure -- mode < Authentica teMode > -- profile <
profileNam e >
```

The parameters to be configured are described as follows:

- --profile: the profile name. If the specified profile exists, it is modified. If the specified profile does not exist, it is created.
- --mode: the credential type. Valid values: AK, StsToken, RamRoleArn, and EcsRamRole.

In interactive configuration mode, you are prompted to enter required information, including the AccessKey information and region ID.

• Enter correct AccessKey information. Otherwise, misoperation may occur or API operations fail to be called.



You can create and view your AccessKey on the AccessKey page in the Alibaba Cloud console, or contact your system administrator to obtain the AccessKey.

 For the region IDs supported by Alibaba Cloud, see ../../SP\_27/ DNgameshield1843536/EN-US\_TP\_13778.dita#concept\_h4v\_j5k\_xdb.

Configure the AccessKey credential

In Alibaba Cloud CLI, the AccessKey credential type is named AK and is the default credential type. Therefore, you can omit the --mode option when configuring the AccessKey credential.

The following example shows how to configure the AccessKey credential with the profile named akProfile.

Configurin g profile ' akProfile ' in '' authentica te mode ...

```
Id []: AccessKey
Access
         Key
                                      ID
               Secret []: AccessKey
Access
         Key
                                          Secret
         Region Id []: cn - hangzhou
Default
Default
          Output
                   Format
                            [ json ]: json ( Only
                                                        support
                                                                  json
))
         Language [ zh | en ] en :
profile [ akProfile ] ... Done .
Default
Saving
```

Configure the automatic completion feature

When using Alibaba Cloud CLI, you can enable or disable the automatic completion feature for the Z shell (Zsh) or Bash shell.

You can enable and disable the automatic completion feature by running the following commands. Currently, the automatic completion feature supports only the Zsh and Bash shell.

• Enable the automatic completion feature.

aliyun auto - completion

• Disable the automatic completion feature.

aliyun auto - completion -- uninstall