

# Alibaba Cloud CLI

## **Configure Alibaba Cloud CLI**

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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.	 <b>Danger:</b> 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.	 <b>Warning:</b> 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.	 <b>Notice:</b> 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.	 <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 Settings > Network > Set network type.
<b>Bold</b>	<b>Bold formatting is used for buttons, menus, page names, and other UI elements.</b>	Click <b>OK</b> .
Courier font	<b>Courier font is used for commands.</b>	Run the <code>cd /d C:/window</code> command to enter the Windows system folder.
<i>Italic</i>	<b>Italic formatting is used for parameters and variables.</b>	<code>bae log list --instanceid Instance_ID</code>
[ ] or [a b]	<b>This format is used for an optional value, where only one item can be selected.</b>	<code>ipconfig [-all -t]</code>

Style	Description	Example
<b>{}</b> or <b>{a b}</b>	<b>This format is used for a required value, where only one item can be selected.</b>	switch <i>{active stand}</i>



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# 1 Configure credential

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## 1.1 Overview

Before using Alibaba Cloud CLI, you must configure the credential information, region, language, and so on.

### Credential type

Alibaba Cloud CLI can use different authentication methods by adding the `--mode <authenticationMethod>` option after the `configure` command. The types of credentials supported are shown in the following table.

Authentication method	Description	Interactive configuration credential (fast)	Non-interactive configuration credential
AK	Use the AccessKey ID and AccessKey Secret to complete the authentication.	<i>Configure AccessKey credential</i>	<i>Configure AccessKey credential</i>
StsToken	Use the STS Token to complete the authentication.	<i>Configure STS token credential</i>	<i>Configure STS token credential</i>
RamRoleArn	Use the AssumeRole of the RAM account to complete the authentication.	<i>Configure RamRoleArn credential</i>	<i>Configure RamRoleArn credential</i>
EcsRamRole	Use the RAM role of an ECS instance to complete the authentication.	<i>Configure EcsRamRole credential</i>	<i>Configure EcsRamRole credential</i>



#### Note:

AccessKey information is not required for the EcsRamRole credential.

Method of configuring credentials

When you configure a credential in Alibaba Cloud CLI, you can select the following two configuration methods and specify the configured credential type.

- *Interactive configuration (fast)*: You only need to enter the corresponding value when prompted. This configuration process is convenient and fast.
- *Non-interactive configuration*: You must specify the configuration name, credential type, and authentication information required for the corresponding credential.

## 1.2 Interactive configuration (fast)

If you follow the interactive process to configure credentials, you do not need to specify the options for the credential. You only need to enter the corresponding values when prompted. This configuration method verifies the validity of the credential. Regardless of whether the credential is valid or not, it is written into the configuration file.

Overview

**Interactive configuration uses the `configure` command to configure credentials.**

**The command format is as follows:**

```
aliyun configure --mode <AuthenticateMode> --profile <profileName>
```

**The description of the configuration options is as follows:**

- `--profile`: Specify the configuration name. If the specified configuration exists, modify the configuration. If it does not exist, you must create a configuration.
- `--mode`: Specify the credential type. They are AK, StsToken, RamRoleArn, and EcsRamRole.

**The prompt information of this configuration mode includes the AccessKey and RegionId:**

- Make sure that you enter the correct AccessKey information. If it is incorrect, the interface cannot be called.



**Note:**

You can create and view your AccessKey on the AccessKey page of the [Alibaba Cloud console](#), or obtain the AccessKey from your system administrator.

- For a complete list of regions supported by Alibaba Cloud, see *[Regions and zones](#)*.

After the configuration is completed, if the configuration credential is valid, the following information is displayed:

```
Configure Done !!!
..... 88888888888888888888888888888888 ..... =888888888888888888888888D
=.....
..... 88888888888888888888888888888888 .....D88888888888888888888888I
.....
.....,88888888888888888888888888888888 ..... =Z88D8888888
8888D.....
..... +88888888 .....
88888888D.....
..... +88888888 .....Welcome to use Alibaba Cloud.....
08888888D.....
..... +88888888 ..... ***** .....
08888888D.....
..... +88888888 .... Command Line Interface(Reloaded) ....
08888888D.....
..... +88888888.....
88888888D.....
.....D8888888888888D0+. .....? ND88888888
8888D.....
.....08888888888888888888888888888888.....D888888888888888888888888
=.....
..... :D88888888888888888888888888888888..... 7888888888888888888880
.....
```

Configure AccessKey credential

**In the Alibaba Cloud CLI, the AccessKey credential type is named `AK`. It is the default credential type. Therefore, when using this method to quickly configure credential, you can ignore `--mode` option.**

**The following command configures an AccessKey credential named `akProfile`:**

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

Configure STS token credential

**If you access Alibaba Cloud by using the `StsToken` credential type, you must specify `--mode StsToken`.**

The following command configures an STS Token credential named `stsTokenProfile`:

```
aliyun configure --profile stsTokenProfile --mode StsToken
Configuring profile 'stsTokenProfile' in 'StsToken' authenticate mode
...
Access Key Id []: AccessKey ID
Access Key Secret []: AccessKey Secret
Sts Token []: StsToken
Default Region Id []: cn-hangzhou
Default Output Format [json]: json (Only support json)
Default Language [zh|en] en:
Saving profile[stsTokenProfile] ...Done.
```

Configure `RamRoleArn` credential

If you access Alibaba Cloud by using the `RamRoleArn` credential type, you must specify `--mode RamRoleArn`.

The following command configures an `RamRoleArn` credential named `ramRoleArnProfile`:

```
aliyun configure --profile ramRoleArnProfile --mode RamRoleArn
Configuring profile 'ramRoleArnProfile' in 'RamRoleArn' authenticate
mode...
Access Key Id []: AccessKey ID
Access Key Secret []: AccessKey Secret
Ram Role Arn []: RamRoleArn
Role Session Name []: RoleSessionName
Default Region Id []: cn-hangzhou
Default Output Format [json]: json (Only support json)
Default Language [zh|en] en:
Saving profile[ramRoleArnProfile] ...Done.
```

Configure `EcsRamRole` credential

If you access Alibaba Cloud by using the `EcsRamRole` credential type, you must specify `--mode EcsRamRole`.

The following command configures an `EcsRamRole` credential named `ecsRamRoleProfile`:

```
aliyun configure --profile ecsRamRoleProfile --mode EcsRamRole
Configuring profile 'ecsRamRoleProfile' in 'EcsRamRole' authenticate
mode...
Ecs Ram Role []: EcsRamRole
Default Region Id []: cn-hangzhou
Default Output Format [json]: json (Only support json)
Default Language [zh|en] en:
Saving profile[ecsRamRoleProfile] ...Done.
```



**Note:**

This credential type is used for ECS instances. You do not need to configure the AK information. You only need to configure roles. For more information on the `EcsRamRole` credential type, see the [Instance RAM role overview](#).

## 1.3 Non-interactive configuration

In the non-interactive credential configuration process, you must specify the authentication information required for the corresponding credential, in addition to the configuration name and credential type. This configuration method directly changes the content of the configuration file and does not verify the validity of the credential.

### Overview

Non-interactive configuration uses the `set` sub-command under the `configure` command to configure credentials. The command format is as follows:

```
aliyun configure set [--profile <profileName>] [--region <regionId>] ... [credential options]
```



#### Note:

The credential option is required for credential configuration. When you configure a credential type, only the options required for this credential type are used.

Common options are as follows, which apply to all credential types:

- `--profile`(required): Specify the configuration name. If the specified configuration exists, modify the configuration. If it does not exist, you must create a configuration.
- `--region`(required): Specify the RegionId of the default region. RegionId supported by Alibaba Cloud. For more information, see [Regions and zones](#).
- `--language`: Specify the language displayed by Alibaba Cloud CLI. The default value is English.
- `--mode`: Specify the configured credential type. The default value is AK.



#### Note:

You can create and view your AccessKey on the AccessKey page of the [Alibaba Cloud console](#), or obtain the AccessKey from your system administrator.

## Configure AccessKey credential

**In addition to the required options, you must specify the following options for the AccessKey credential type:**

- `--access-key-id`: **Specify your AccessKey ID.**
- `--access-key-secret`: **Specify your AccessKey Secret.**

**The following command configures an AccessKey credential named `akProfile`.**

```
aliyun configure set \  
  --profile akProfile \  
  --mode AK \  
  --region cn-hangzhou \  
  --access-key-id AccessKeyID \  
  --access-key-secret AccessKeySecret
```

## Configure STS token credential

**In addition to the required options, you must specify the following options for the STS Token credential type:**

- `--access-key-id`: **Specify your AccessKey ID.**
- `--access-key-secret`: **Specify your AccessKey Secret.**
- `--mode StsToken`: **Specify the credential type as StsToken.**
- `--sts-token`: **Specify the information required for StsToken authentication.**

**The following command configures an StsToken credential named `stsTokenProfile`:**

```
aliyun configure set \  
  --profile stsTokenProfile \  
  --mode StsToken \  
  --region cn-hangzhou \  
  --access-key-id AccessKeyID \  
  --access-key-secret AccessKeySecret \  
  --sts-token StsToken
```

## Configure RamRoleArn credential

**In addition to the required options, you must specify the following options for the RamRoleArn credential type:**

- `--access-key-id`: **Specify your AccessKey ID.**
- `--access-key-secret`: **Specify your AccessKey Secret.**
- `--mode RamRoleArn`: **Specify the credential type as RamRoleArn.**

- `--ram-role-arn`: **Specify the information required for RamRoleArn authentication.**
- `--role-session-name`: **Specify your RoleSessionName.**

**The following command configures a RamRoleArn credential named `ramRoleArn` Profile:**

```
aliyun configure set \  
  --profile ramRoleArnProfile \  
  --mode RamRoleArn \  
  --region cn-hangzhou \  
  --access-key-id AccessKeyID \  
  --access-key-secret AccessKeySecret \  
  --ram-role-arn RamRoleArn \  
  --role-session-name RoleSessionName
```

Configure EcsRamRole credential

**In addition to the required options, you must specify the role bound to your ECS instance with `--ram-role-name` option for the EcsRamRole credential type. The following command configures an EcsRamRole credential named `ecsRamRole`**

Profile:

```
aliyun configure set \  
  --profile ecsRamRoleProfile \  
  --mode EcsRamRole \  
  --ram-role-name RoleName \  
  --region cn-hangzhou
```

## 2 Other configure command operations

**This topic lists other operations of the Alibaba Cloud CLI configuration credential.**

Lists the summary information of all configurations

**Run the following command to return a summary of each configuration.**

```
aliyun configure list
```

**The command output of the system is as follows: It contains the configuration name, encrypted authentication information, language, default Region, and the current default configuration (the configuration name is marked with a star number in the upper right corner).**

Profile	Credential	Valid	Region
Language			
-----	-----	-----	-----
akProfile *	AK:***yId	Valid	cn-hangzhou
en			
stsTokenProfile	StsToken:***yId	Valid	cn-hangzhou
en			
ramRoleArnProfile	RamRoleArn:***yId	Valid	cn-hangzhou
en			
ecsRamRoleProfile	EcsRamRole:EcsRamRole	Valid	cn-hangzhou
en			

Get the details of a configuration

- **Run the following command to get the default configuration information:**

```
aliyun configure get
```

- **Run the following command to get the information of the specified configuration. The option `--profile` is used to specify the name of the configuration to get.**

```
aliyun configure get --profile akProfile
```

- **If the `akProfile` is configured, the information of this configuration will be returned:**

```
{
  "name": "akProfile",
  "mode": "AK",
  "access_key_id": "AccessKeyId",
  "access_key_secret": "AccessKeySecret",
  "sts_token": "",
  "ram_role_name": ""
```



```
"ram_role_arn": "",
"ram_session_name": "",
"private_key": "",
"key_pair_name": "",
"expired_seconds": 0,
"verified": "",
"region_id": "cn-hangzhou",
"output_format": "json",
"language": "en",
"site": "",
"retry_timeout": 0,
"retry_count": 0
}
```

- **If the akProfile does not exist, the default value of each field in the configuration is returned:**

```
profile akProfile not found!{
  "name": "akProfile",
  "mode": "",
  "access_key_id": "",
  "access_key_secret": "",
  "sts_token": "",
  "ram_role_name": "",
  "ram_role_arn": "",
  "ram_session_name": "",
  "private_key": "",
  "key_pair_name": "",
  "expired_seconds": 0,
  "verified": "",
  "region_id": "",
  "output_format": "",
  "language": "",
  "site": "",
  "retry_timeout": 0,
  "retry_count": 0
}
```

Remove the specified configuration

**Run the following command to delete the configuration named akProfile: The option --profile is used to specify the name of the configuration to be deleted.**

```
aliyun configure delete --profile akProfile
```

## 3 Use an HTTP proxy server

---

**Before using an HTTP proxy server to access and manage cloud services, you must set the environment variables `http_proxy` and `https_proxy`.**

Set the `http_proxy` environment variable

**Select a configuration method for your system, and run the following command to set the `http_proxy` environment variable.**

- **Linux, Unix, and macOS:**

```
export http_proxy=http://192.168.1.2:1234
export http_proxy=http://proxy.example.com:1234
```

- **Windows:**

```
setx http_proxy=http://192.168.1.2:1234
set http_proxy=http://proxy.example.com:1234
```



**Note:**

**The `setx` command can be used to set environment variables permanently. After the configuration is complete, you must restart the terminal.**

Set the `https_proxy` environment variable

**Select a configuration method for your system, and run the following command to set the `https_proxy` environment variable.**

- **Linux, Unix, and macOS:**

```
export https_proxy=http://192.168.1.2:5678
export https_proxy=http://proxy.example.com:5678
```

- **Windows:**

```
set https_proxy=http://192.168.1.2:5678
set https_proxy=http://proxy.example.com:5678
```

## 4 Auto-completion function

---

You can enable or disable the zsh/bash auto-completion function of Alibaba Cloud CLI.

Enable or disable auto-completion by using the following command. Currently, only zsh/bash is supported.

- **Enable auto-completion:**

```
aliyun auto-completion
```

- **Disable auto-completion:**

```
aliyun auto-completion --uninstall
```