

# Alibaba Cloud

## 通用参考

### General Reference

Issue: 20190709

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## Generic conventions

Table -1: Style conventions

| Style   | Description  | Example  |
|---|--|--|
|  | This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results. |  <b>Danger:</b><br>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.  |  <b>Warning:</b><br>Restarting will cause business interruption. About 10 minutes are required to restore business. |
|  | This indicates warning information, supplementary instructions, and other content that the user must understand.                           |  <b>Notice:</b><br>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.                       |  <b>Note:</b><br>You can use Ctrl + A to select all files.  |
| >   | Multi-level menu cascade.  | Settings > Network > Set network type  |
| <b>Bold</b>   | It is used for buttons, menus, page names, and other UI elements.  | Click OK.  |
| Courier font  | It is used for commands.   | Run the <code>cd / d C :/ windows</code> command to enter the Windows system folder.   |
| <i>Italics</i>  | It is used for parameters and variables.   | <code>bae log list --instanceid Instance_ID</code>   |
| [ ] or [a b]  | It indicates that it is an optional value, and only one item can be selected.  | <code>ipconfig [-all -t]</code>  |

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



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# 1 Guidelines for the use of documentation

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You can obtain information about the Alibaba Cloud documentation, including target audiences, document conventions, legal statements, and the guide to making open source contributions.

## 1.1 Instructions for open source documentation

If you want to be a contributor to the content of the Alibaba Cloud documentation, refer to this document for guidelines and compliance with the open source provisions of the content.

### 1.1.1 Open-Source Documentation Code of Conduct

This document shall serve as the code of conduct for all Alibaba Cloud products open-source documentations ( “Documentations” ). In the event that you become a member of Alibaba Cloud open-source content community, you shall abide by the following regulations while contributing, editing and modifying the Documentations.

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#### 2. Content Contributed by You

- a. The content you submit shall be your original works.
- b. If Alibaba Cloud decides to merge your contribution, Alibaba Cloud may make additional edits to the content submitted by you for style or clarity purposes.

### 3. Content Guidelines

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- b. is obscene or contains or infers any pornography or sex-related merchandising or any other content that otherwise promotes sexually explicit materials, or is otherwise harmful to minors.
- c. promotes discrimination based on race, sex, religion, nationality, disability, sexual orientation or age.
- d. involves any computer viruses or other destructive devices and codes that have the effect of damaging, interfering with, intercepting or expropriating any software or hardware system, data or personal information.
- e. is otherwise objectionable on the grounds of public interest, public morality, public order, public security, national harmony or is prohibited by applicable laws.
- f. is personal information, including but not limited to device information, and e-mail address.

### 4. Content Submission and Processing Guidelines

If Alibaba Cloud decides to merge your pull request or accept your suggestion, Alibaba Cloud will publish your changes to the Documentation on Alibaba Cloud's website as soon as we can.

If you discover a potential security issue, you can report it to the following E-mail address: [ApsaraDoc@alibaba-inc.com](mailto:ApsaraDoc@alibaba-inc.com). Please do not create a public issue on GitHub.

## 1.1.2 Editing Open-Source Documentation

If you find any content that requires modification or improvement while navigating through the Alibaba Cloud official documentation, you can follow the following steps to submit your suggestions on GitHub. If your suggestion is used by Alibaba Cloud, you will be credited as a contributor in the Alibaba Cloud documentation center for that document.

### Prerequisites

- The Alibaba Cloud documentation is open-source on [GitHub](#), where you need to sign in to the GitHub account before edit and submit content. If you do not have a GitHub account, visit [Join GitHub](#) to register for an account.
- Before editing and submitting content, please read and understand the our [Open-Source Documentation Code of Conduct](#).

## Context


The document published by Alibaba Cloud is open-source in markdown format on [GitHub](#).

## Procedure

1. To edit the contents of a document, just go to the document page and click the Edit button in the top right corner. This will open up the relevant document on GitHub, as described in [Figure 1-1: Editing Open-Source Documentation](#).

Figure 1-1: Editing Open-Source Documentation



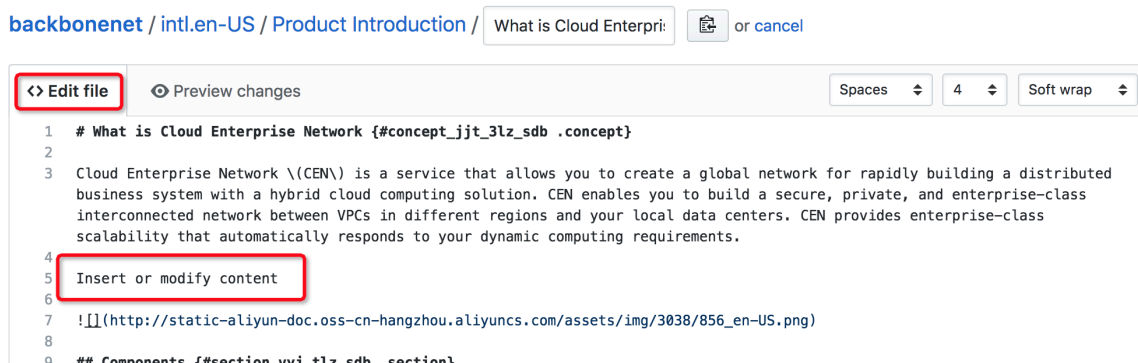
2. On the GitHub page, click the  icon to enter the editor.

The system will then create a branch, which contains a copy of the document that you can edit.

### 3. Contents are edited in the Edit file tab, as shown in [Figure 1-2: Content editor](#).

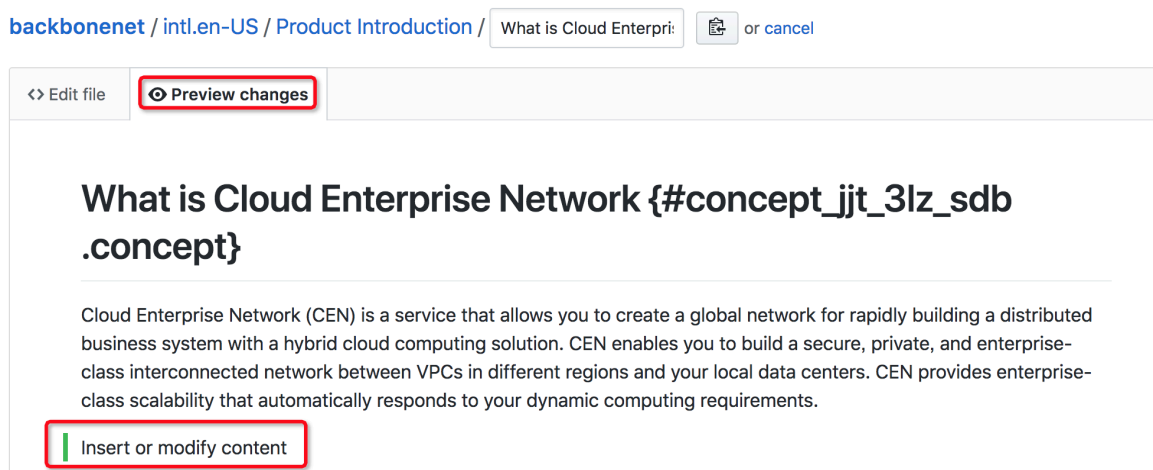
You can click on Cancel at the top or bottom of the tab to cancel editing.

Figure 1-2: Content editor



### 4. You can view the changes in the Preview changes tab, as shown in [Figure 3](#).

Figure 1-3: Preview changes



5. Once you are happy with your changes, enter a description of the changes into the Propose file change tab, and click on Propose file change to submit your suggestions, as shown in [Figure 1-4: Submit suggestions](#).

Figure 1-4: Submit suggestions

## Result

Alibaba Cloud will review and process your suggestions in accordance with its [Open-Source Documentation Code of Conduct](#).

Alibaba Cloud thanks you for your support and help!

## 2 Alibaba Cloud console

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Welcome to the Alibaba Cloud console. This guide briefly introduces how to use the console. To learn more about the specific services and functions provided by the console, see the product documentation. This guide covers the following topics:

- [What is the Alibaba Cloud console](#)
- [Get started with products and services](#)
- [Add or delete shortcuts](#)
- [Change the password](#)
- [Get billing information](#)
- [Set message recipients](#)
- [ICP filing](#)
- [Documentation](#)
- [Open a ticket](#)
- [Use mobile terminals](#)
- [Browser compatibility](#)

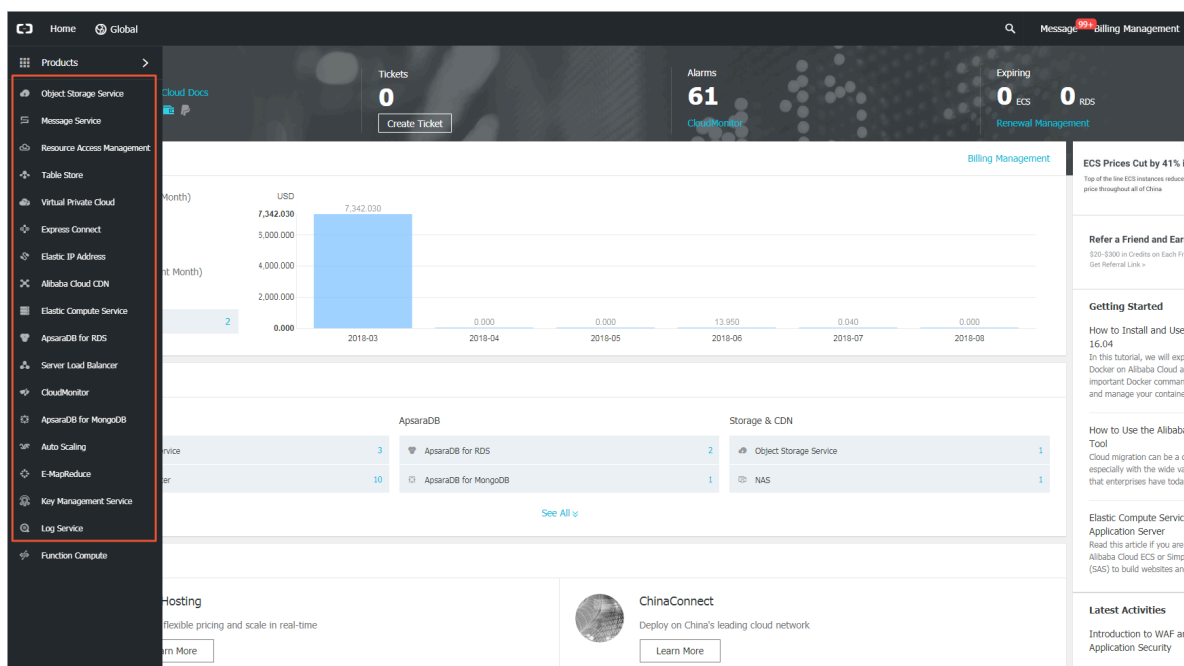
### What is the Alibaba Cloud console

The Alibaba Cloud console is a web application used to manage Alibaba Cloud products. It provides an intuitive user interface that allows you to start and connect to ECS instances, use OSS buckets, and set alarm rules. You can access the console of each product or service through the Alibaba Cloud console or the product details page. The console also provides information about your account and billing.

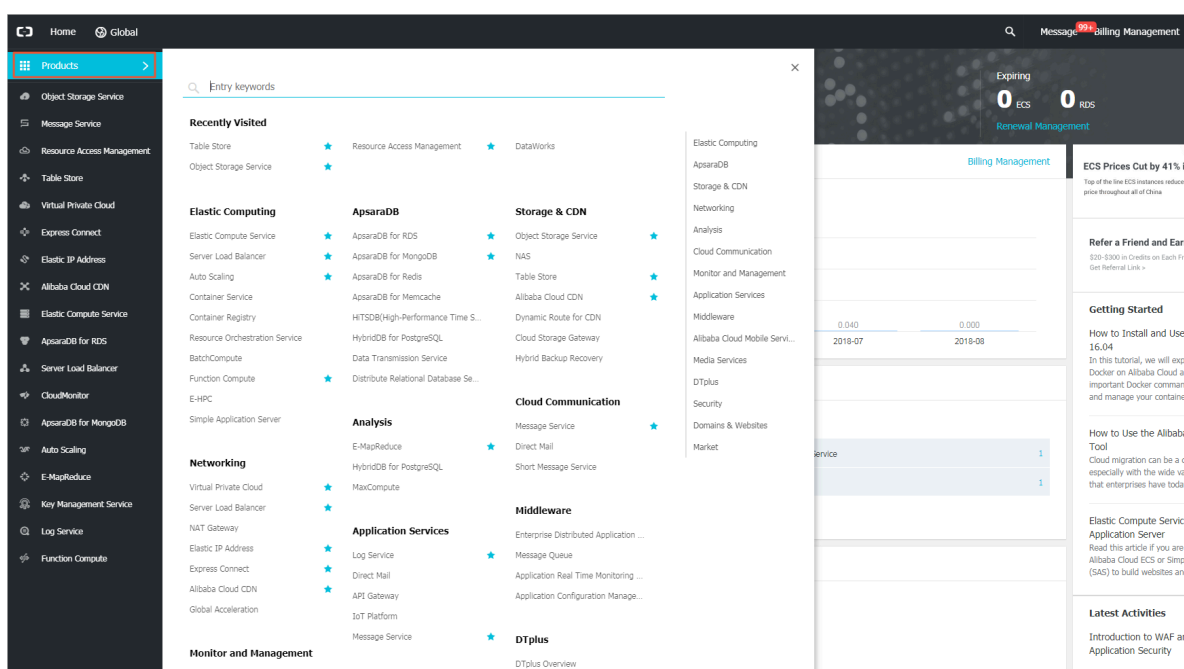
### Get started with products and services

You can access products and services through the console.

1. View frequently used products and services on the left-side navigation pane of the Alibaba Cloud console.



2. Click Products on the left-side navigation pane of the Alibaba Cloud console to open the complete list of products and services.



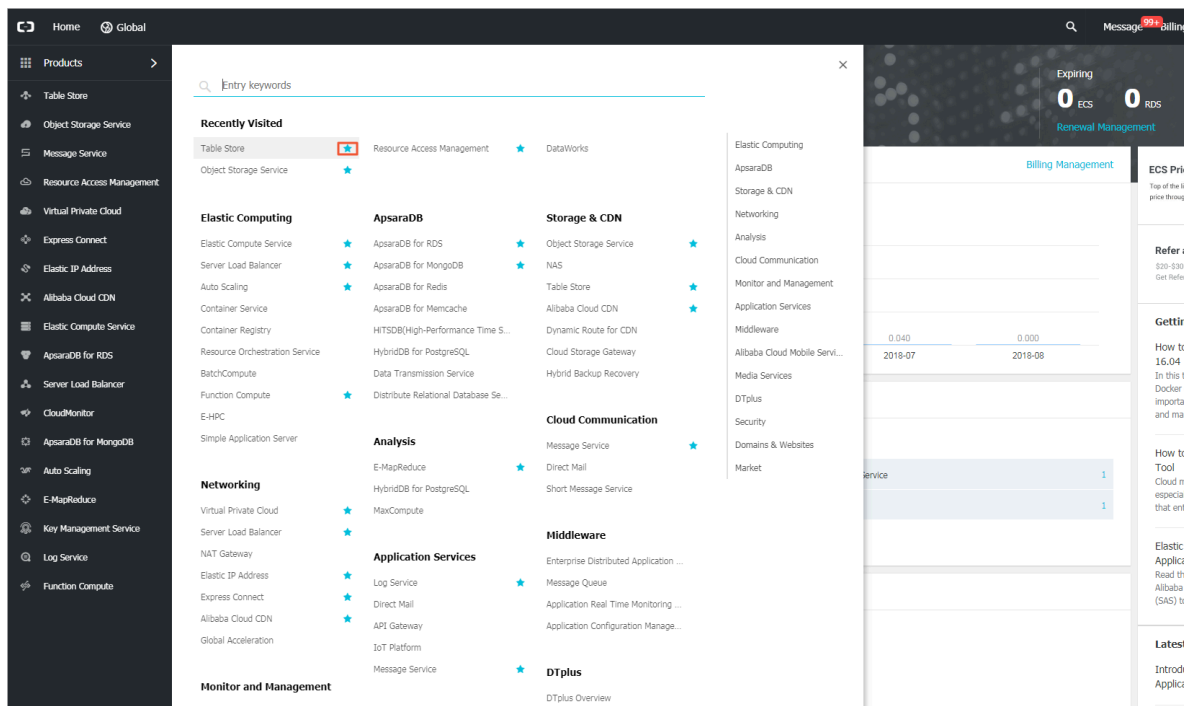
3. Click the name of a product or service to open the console of the product or service

.

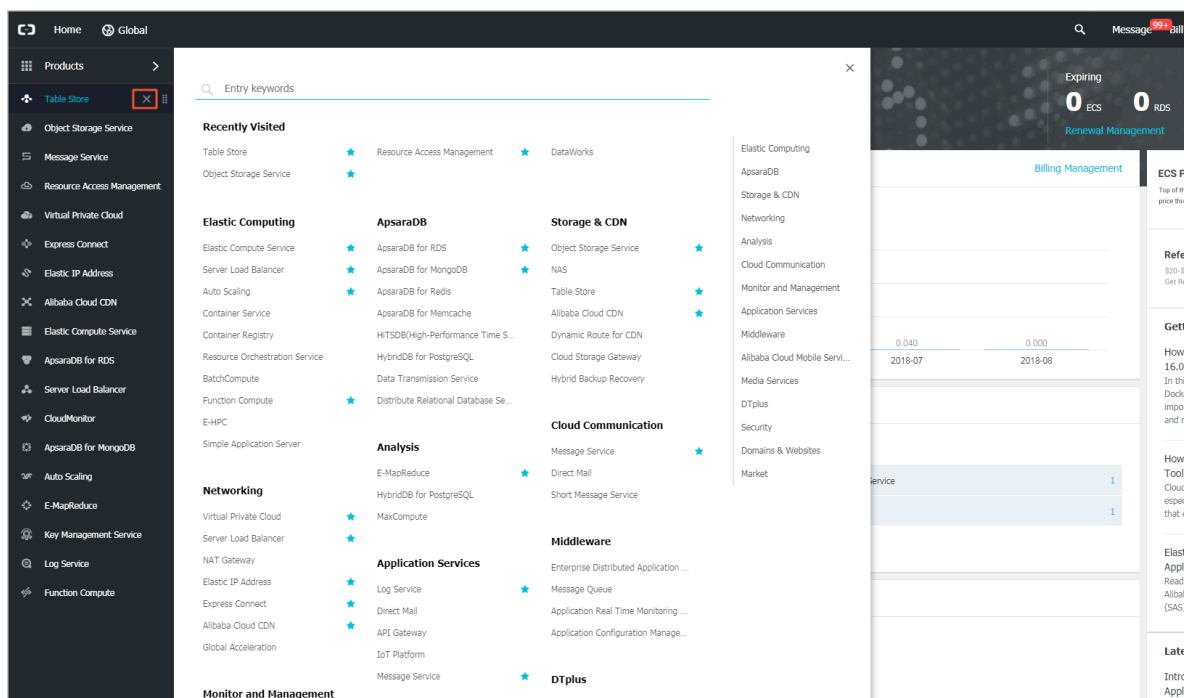
Add or delete shortcuts

You can add shortcuts of frequently used products or services to the console or delete existing shortcuts.

- Click the corresponding icon ★ of any products or services to add them into the frequently used Products list.



- Click the corresponding icon ✕ of any products or services to remove them from the frequently used products and services list.



## Change the password

You can use the console to change the password of your Alibaba Cloud account.



1. On the top navigation bar of the Alibaba Cloud console, click your account.



2. On the Security Settings page, click Change on the right of Login Password.
3. On the Identity Verification page, choose a verification method.
  - If you want to Verify your account by phone, ensure that your phone can receive the verification code, and click Verify now. Then, go to step 4.
  - If you want to Verify your account by email, click Verify now, and then go to step 5.
4. Verify the account by phone.
  - a. In the Verification code box, click Click here to receive verification code, and then enter the 6-digit verification code that you received. Click Submit.
  - b. Enter your current login password and new login password, and then enter the new password again for confirmation. Then, click OK.
5. Verify the account by Email.
  - a. Click Try a different verification method.
  - b. In the By Email Verification area, click Verify now. In the Verification code box, click Click here to receive verification code, and then enter the 6-digit verification code that you received. Then, click Submit.
  - c. Enter your current login password and new login password, and then enter the new password again for confirmation. Then, click OK.

### Get billing information

You can use the console to get billing information of your Alibaba Cloud account.

1. On the top navigation bar of the Alibaba Cloud console, click Billing Management.
2. On the Billing Management page, you can view your cost summary, bills, usage records, orders, and coupons.

### Set message recipients

You can use the console to set message recipients and their receipt methods.

1. On the top navigation bar of the Alibaba Cloud console, click Message.

2. On the Message Center page, Click Message Settings on the left-side menu bar.  
All message types and their corresponding recipients and receiving methods are listed.
3. Modify the receiving methods, including by email and SMS, for each type of messages. The default message recipient is the account contact. You can click Modify to add or delete other message recipients.

### ICP filing

ICP filing is the action of submitting a document to the competent authority for storage and further query. According to the Regulation on Internet Information Service of the People's Republic of China, applicants must apply for an ICP Filing for their Internet information services within Mainland China.

You can apply for an ICP Filing service number through Alibaba Cloud console. Click More > ICP on the top navigation bar of the Alibaba Cloud console. For more information about ICP Filing, see [ICP Filing documentation](#).

### Documentation

The console provides portals for various help resources, including the product documentation and Alibaba Cloud developer forum.

Click More > Documentation on the top navigation bar of the Alibaba Cloud console.

### Open a ticket

On the console, you can use the ticket system to open a ticket about consultation and technical issues. After receiving the ticket, Alibaba Cloud technical representatives will answer your questions on immediate basis.

1. From the top navigation bar of the Alibaba Cloud console, select Support > Open a new ticket.
2. On the Open Ticket page, you can select either a consulting or technical issue. Then click Ask.
3. Select an issue type. The system lists the issues that frequently occur for the selected issue type.
  - If your issue is already listed, please click the issue for solutions. If the listed solutions do not resolve your issue, click Open Ticket.
  - If your issue is not on the list, click My Issue is Not Included Above. In the pop-up search box, enter your issue and click Search This Product or Search All. The

system lists all content related to your issue. If you still cannot find a satisfactory answer, please click Open Ticket.

4. On the Open Ticket page, select the severity of your issue, enter your server IP address, and leave your contact information. You can also give a simple description of your issue and upload an attachment. Click Submit.

**Note:**

Alibaba Cloud reviews the tickets based on their severity. Alibaba Cloud responds critical tickets within two hours.

5. After opening a ticket, you can view the handling progress of the ticket in My tickets.

**Browser compatibility**

For better experience, we recommend that you use the following browsers to access the Web-based Alibaba Cloud console:

- Apple Safari (latest version)
- Google Chrome (latest version)
- Microsoft Edge
- Mozilla Firefox (latest version)

**Notice:**

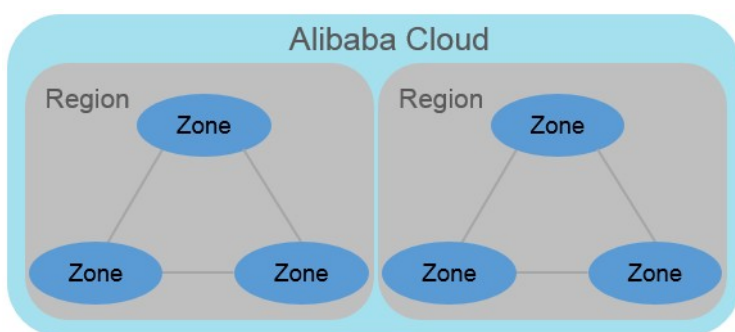
The Alibaba Cloud console does not support Internet Explorer by default.

Accessing the Alibaba Cloud console by using other browsers may result in the inability to view or manage resources, impaired layouts or interactions, or significantly slower performance. If you have problems when accessing the Alibaba Cloud console by using a browser other than those listed above, we recommend that you change or upgrade your browser.

## 3 Regions and zones

This topic provides a complete list of Alibaba Cloud regions and zones.

Regions in Alibaba Cloud are independent. Zones in Alibaba Cloud are completely isolated. However, zones in the same region are connected through links with low latency. The following figure shows the relationship between regions and zones in Alibaba Cloud.



### Regions

Alibaba Cloud regions are physical locations (data centers) that spread all over the world to reduce the network latency. The region cannot be changed once a resource is created in it. The following table lists all Alibaba Cloud regions, corresponding cities, and Region IDs.



#### Note:

The available regions vary according to the product. To view the list of regions available for each product, see [Alibaba Cloud Global Infrastructure](#).

#### • Regions in Mainland China

| Region name   | City        | Region ID      | Number of zones |
|---------------|-------------|----------------|-----------------|
| China North 1 | Qingdao     | cn-qingdao     | 2               |
| China North 2 | Beijing     | cn-beijing     | 8               |
| China North 3 | Zhangjiakou | cn-zhangjiakou | 2               |
| China North 5 | Hohhot      | cn-huhehaote   | 2               |
| China East 1  | Hangzhou    | cn-hangzhou    | 8               |
| China East 2  | Shanghai    | cn-shanghai    | 6               |
| China South 1 | Shenzhen    | cn-shenzhen    | 5               |

| Region name | City    | Region ID  | Number of zones |
|-------------|---------|------------|-----------------|
| China SW 1  | Chengdu | cn-chengdu | 1               |

• International regions

| Region name        | City           | Region ID      | Number of zones |
|--------------------|----------------|----------------|-----------------|
| Hong Kong          | Hong Kong      | cn-hongkong    | 2               |
| Asia Pacific SE 1  | Singapore      | ap-southeast-1 | 3               |
| Asia Pacific SE 2  | Sydney         | ap-southeast-2 | 2               |
| Asia Pacific SE 3  | Kuala Lumpur   | ap-southeast-3 | 2               |
| Asia Pacific SE 5  | Jakarta        | ap-southeast-5 | 2               |
| Asia Pacific SOU 1 | Mumbai         | ap-south-1     | 2               |
| Asia Pacific NE 1  | Tokyo          | ap-northeast-1 | 2               |
| US West 1          | Silicon Valley | us-west-1      | 2               |
| US East 1          | Virginia       | us-east-1      | 2               |
| EU Central 1       | Frankfurt      | eu-central-1   | 2               |
| UK (London)        | London         | eu-west-1      | 2               |
| Middle East 1      | Dubai          | me-east-1      | 1               |

When choosing a region, consider the following factors:

• Geographic location

Choose a region based on the geographic locations of you and your target users.

- Regions in mainland China

In general, we recommend that you choose the data center closest to your target users so that they have fast access. Alibaba Cloud's data centers of the regions in mainland China are similar to each other in terms of infrastructure, BGP network quality, service quality, ECS operation and configuration. The regions offer BGP backbone network lines covering all provinces, autonomous regions, and municipalities to guarantee fast, stable access within mainland China.

- International regions

Alibaba Cloud's international regions are data centers outside mainland China. They offer access at international bandwidth, targeting areas outside mainland China. Users in mainland China that access services deployed in these regions

may experience high latency. Therefore, we do not recommend deploying services in international regions if users from mainland China require access.

- If you have business operations in Hong Kong or Southeast Asia, choose the region Hong Kong, Asia Pacific SE 1, Asia Pacific SE 3, or Asia Pacific SE 5.
- If you have business operations in Japan and Korea, choose the Asia Pacific NE 1.
- If you have business operations in India, choose the region Asia Pacific SOU 1.
- If you have business operations in Australia, choose the region Asia Pacific SE 2.
- If you have business operations in America, choose the region US East 1 or US West 1.
- If you have business operations in Continental Europe, choose the region EU Central 1.
- If you have business operations in the Middle East, choose the Eastern Middle East 1 region.

· Intranet communication between Alibaba Cloud products across regions

Intranet communication between Alibaba Cloud products that are not in the same region is not supported, which means:

- ECS instances and other products, such as ApsaraDB for RDS and OSS instances , cannot communicate with one another over the intranet if they are in different regions.
  - Server Load Balancer cannot be deployed for ECS instances in different regions.
- Resource pricing

The price of resources may vary according to the region. For details, see the [product pricing page](#).

- Business license filing

When you choose a region, consider the special requirements of some areas. If you have purchased an ECS instance in mainland China and used it for a web server, complete business license filing first.

To complete business license filing, pay attention to the following points:

- If your company is located in Beijing, choose the China North 2 region for the ECS instance you have purchased.
- If your company is located in Guangdong, choose the China South 1 region for the ECS instance you have purchased.



**Note:**

The communications administrations in different provinces, autonomous regions, and municipalities have different approval requirements for business license filing. In case of any change, the information published on the business license filing website of your local administration prevails.

## Zones

Zones are physical areas with independent power grids and networks within one region. The network latency for instances within the same zone is lower.

Intranet communication can take place between instances in different zones of the same region, and fault isolation can be achieved between zones. Whether or not instances can be deployed in the same zone depends on the requirements for disaster recovery and network latency.

- If your applications require high disaster recovery capabilities, we recommend that you deploy your instances in different zones of the same region.
- If your applications require low network latency between instances, we recommend that you create your instances in the same zone.

For more information about regions and zones, see the [Alibaba Cloud Global Infrastructure](#).

## 4 Service limits

Before purchasing and using Alibaba Cloud products, read the related service limits, such as instance specifications, functional restrictions, bandwidth, and disk capacity.

The following table provides links to the service limits of Alibaba Cloud products.

### Elastic Computing

| Products                      | Limits   |
|-------------------------------|--|
| Elastic Compute Service (ECS) | <ul style="list-style-type: none"><li>• <a href="#">ECS operation instructions</a></li><li>• <a href="#">Limits</a></li></ul>                        |
| Auto Scaling                  | <a href="#">Limits</a>   |
| Container Service             | <ul style="list-style-type: none"><li>• <a href="#">Limits for Swarm clusters</a></li><li>• <a href="#">Limits for Kubernetes clusters</a></li></ul> |
| Batch Compute                 | <a href="#">Limits</a>   |
| Function Compute              | <a href="#">Limits</a>   |
| Dedicated Host                | <a href="#">Limits</a>   |

### Database Services

| Products                | Limits   |
|-------------------------|--|
| ApsaraDB for RDS        | <ul style="list-style-type: none"><li>• <a href="#">MySQL limits</a></li><li>• <a href="#">SQL Server limits</a></li><li>• <a href="#">PostgreSQL limits</a></li><li>• <a href="#">PPAS limits</a></li></ul> |
| ApsaraDB for MongoDB    | <a href="#">Limits</a>   |
| HybridDB for MySQL      | <a href="#">Limits</a>   |
| HybridDB for PostgreSQL | <a href="#">Limits</a>   |
| ApsaraDB for Redis      | <a href="#">Limits</a>   |
| ApsaraDB for Memcache   | <a href="#">Limits</a>   |



## Networking

| Products                    | Limits                 |
|-----------------------------|------------------------|
| Server Load Balancer        | <a href="#">Limits</a> |
| Express Connect             | <a href="#">Limits</a> |
| Virtual Private Cloud (VPC) | <a href="#">Limits</a> |
| NAT Gateway                 | <a href="#">Limits</a> |

## Storage and CDN

| Products                       | Limits                 |
|--------------------------------|------------------------|
| Object Storage Service (OSS)   | <a href="#">Limits</a> |
| Table Store                    | <a href="#">Limits</a> |
| CDN                            | <a href="#">Limits</a> |
| Network Attached Storage (NAS) | <a href="#">Limits</a> |

## Security

| Products             | Limits                 |
|----------------------|------------------------|
| Certificates Service | <a href="#">Limits</a> |

## Media Services

| Products                         | Limits                 |
|----------------------------------|------------------------|
| ApsaraVideo for Media Processing | <a href="#">Limits</a> |
| ApsaraVideo Live                 | <a href="#">Limits</a> |

## Middleware

| Products           | Limits                 |
|--------------------|------------------------|
| Message Queue (MQ) | <a href="#">Limits</a> |

## 5 Maintain account security

---

An account is equivalent to a root account that controls all of your cloud resources. If the account password or API AccessKey (AK) is lost or disclosed, immeasurable loss may be caused to your enterprise.

To maintain account security, follow these account security practice principles:

### Principle 1: Enable MFA for your account

- Enable Multi-Factor Authorization (MFA) for your account and do not share your MFA device with others.
- Enable MFA for RAM users with special operation permissions. Special operation permissions include user management, authorization, instance stopping/release, instance configuration modification, and data deletion.

### Principle 2: Create different RAM accounts for routine O&M operations

- Create independent RAM user accounts for RAM administrators.
- Create RAM user accounts for employees for routine O&M.
- Create independent RAM user accounts for financial staffs.

### Principle 3: Do not create an AK for your account

AKs have the same permissions as logon passwords. However, AKs are used for program access while logon passwords are used to log on to the console. Because AKs are stored in cleartext in configuration files, there is a higher disclosure risk.

Configure RAM user identities for all application systems and follow the minimum authorization principle in the case of [attaching policies to a RAM user](#).

### Principle 4: Use policies with IP restrictions

All users that are granted special operation permissions must be [configured with IP restrictions \(acs:SourceIp\)](#).

Therefore, even if a RAM user's logon password or AK is disclosed, attackers will be unable to obtain account information as long as they have not penetrated your trusted network.

### Principle 5: Use policies with MFA restrictions

All users that are granted special operation permissions must be [configured with MFA restrictions \(acs:MFAPresent\)](#).

Therefore, even if a RAM user's logon password or AK is disclosed, attackers will be unable to obtain account information as long as the MFA device is not lost.

For more restrictions, see [Syntax](#).

There is no such thing as absolute security, but only best practices. In combination with these protection mechanisms, adherence to the best security practice principles will significantly secure your account assets.

## 6 Create an AccessKey

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An AccessKey is equivalent to a logon password, but they are used in different scenarios. AccessKeys are used to directly call APIs, while logon passwords are used to log on to the console. You must create an AccessKey only if you must call APIs.

You can use the AccessKey to construct an API request (or use the cloud service SDK) for operating resources. An AccessKey is composed of an AccessKeyID and an AccessKeySecret.

- The AccessKeyID is used to identify the user.
- The AccessKeySecret is used to verify the user's key, which is highly confidential.



### Warning:

Do not use the AccessKey of the primary account. If it is disclosed, all your resources may be unsafe. Use the AccessKey of an RAM user account to reduce the risk of AccessKey disclosure.

### Procedure

1. Log on to the [RAM console](#).
2. Click User on the left-side navigation pane.
3. Click a target user to go to the user details page.
4. Click Create AccessKey in the User AccessKey area.
5. In the Create User Access Key dialog box, expand AccessKey Details to view the AccessKeyID and AccessKeySecret. Click Save AccessKey Information to download the AccessKey.



### Notice:

**You must save your AccessKey as it is required in future and must keep it confidential.**

Create User Access Key

×

This is the only time a user's Access key can be downloaded. Save the Access key now.

✓

Access key successfully created.

Access Key Details

▼

Save Access Key Information

## 7 ICP Filing

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According to the Regulation on Internet Information Service of the People's Republic of China (Decree No. 292 of the State Council) by the Ministry of Industry and Information Technology (MIIT), you must get an ICP Filing number from the MIIT to direct your website to servers located in mainland China for public visit.

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