

ALIBABA CLOUD

# Alibaba Cloud

共享带宽  
User Guide

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 Alibaba Cloud

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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> .
Courier font	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. Overview of EIP bandwidth plans

EIP bandwidth plans support bandwidth sharing and transferring on a regional scale. After you create an EIP bandwidth plan, you can associate elastic IP addresses (EIPs) with the EIP bandwidth plan. You can manage Internet data transfer in a uniform way and enable cloud resources to use bandwidth resources at the Gbit/s level.

## Line types

EIP bandwidth plans support two line types: BGP (Multi-ISP) and BGP (Multi-ISP) Pro. The following table describes the differences.

Item	BGP (Multi-ISP)	BGP (Multi-ISP) Pro
Supported EIPs	EIPs of BGP (Multi-ISP)	EIPs of BGP (Multi-ISP) Pro
Supported regions	All regions	China (Hong Kong) only

## Anti-DDoS editions

By default, EIP bandwidth plans support Anti-DDoS Origin Basic. If your business requires more advanced security protection, you can purchase EIP bandwidth plans that support Anti-DDoS Pro/Premium.

- Anti-DDoS Origin Basic
  - Mitigates DDoS attacks at up to 5 Gbit/s, which is suitable for users that require only basic security protection.
- Anti-DDoS Pro/Premium
  - Mitigates DDoS attacks at Tbit/s, which is suitable for users that have a high requirement of security protection and network latency. Limits on using Anti-DDoS Pro/Premium:
    - You can associate only EIPs that support Anti-DDoS Pro/Premium with EIP bandwidth plans that use Anti-DDoS Pro/Premium.
    - You can set the Anti-DDoS edition of an EIP bandwidth plan to Anti-DDoS Pro/Premium only when you purchase the EIP bandwidth plan. After you purchase an EIP bandwidth plan that supports Anti-DDoS Origin Basic, you cannot upgrade the Anti-DDoS edition to Anti-DDoS Pro/Premium.
    - After you purchase an EIP bandwidth plan that supports Anti-DDoS Pro/Premium, you cannot disable the security protection.

 **Note** To apply for an EIP bandwidth plan that supports Anti-DDoS Pro/Premium, you must first [submit a ticket](#).

## Purchase an EIP bandwidth plan

To purchase an EIP bandwidth plan, go to the [buy page](#).

## 2. Create an EIP bandwidth plan

After you create an EIP bandwidth plan, you can associate elastic IP addresses (EIPs) with the EIP bandwidth plan. This allows you to manage Internet data transfer in a centralized way and ensures maximum bandwidth at the Gbit/s level.

### Procedure

- 1.
2. On the **Internet Shared Bandwidth** page, click **Buy Internet Shared Bandwidth**.
3. On the buy page, set the following parameters, click **Buy Now**, and then complete the payment.

Parameter	Description
<b>Region</b>	<p>Select the region where you want to create the EIP bandwidth plan.</p> <p>Make sure that the EIP bandwidth plan is created in the same region as the EIP that you want to associate with the EIP bandwidth plan.</p>
<b>Line Type</b>	<p>Select the line type of the EIP bandwidth plan.</p> <ul style="list-style-type: none"> <li>◦ <b>BGP (Multi-ISP)</b>: If you select this option, you can associate only EIPs of BGP (Multi-ISP) with the EIP bandwidth plan.</li> <li>◦ <b>BGP(Multi-ISP)_PRO</b>: If you select this option, you can associate only EIPs of BGP (Multi-ISP) Pro with the EIP bandwidth plan.</li> </ul> <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 5px; margin-top: 10px;"> <p> <b>Note</b> Only the China (Hong Kong) region supports BGP (Multi-ISP) Pro.</p> </div>
<b>Billing Method</b>	<p>Select the billing method of the EIP bandwidth plan.</p> <p>Only pay-by-data-transfer is supported. For more information, see <a href="#">Pay-by-data-transfer</a>.</p>
<b>Security Protection</b>	<p>Select the Anti-DDoS edition.</p> <ul style="list-style-type: none"> <li>◦ <b>Default</b>: specifies Anti-DDoS Origin, which mitigates attacks at 5 Gbit/s or lower. For more information, see <a href="#">What is Anti-DDoS Origin?</a>.</li> <li>◦ <b>Anti-DDoS (Enhanced)</b>: specifies Anti-DDoS Pro/Premium, which mitigates attacks at Tbit/s.</li> </ul> <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 5px; margin-top: 10px;"> <p> <b>Note</b></p> <p>Anti-DDoS Pro/Premium is available only for users included in the whitelist. To purchase an EIP bandwidth plan that supports Anti-DDoS Pro/Premium, you must first <a href="#">submit a ticket</a>.</p> </div>
<b>Bandwidth</b>	Specify the maximum bandwidth of the EIP bandwidth plan.

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Parameter	Description
<b>Name</b>	Enter a name for the EIP bandwidth plan. The name must be 2 to 128 characters in length, and can contain letters, digits, underscores (_), and hyphens (-). It must start with a letter.
<b>Purchase Quantity</b>	Specify the number of EIP bandwidth plans that you want to purchase.

## What's next

[Associate EIPs with an EIP bandwidth plan](#)

## Related information

- [CreateCommonBandwidthPackage](#)

## 3. Associate EIPs with an EIP bandwidth plan

This topic describes how to associate elastic IP addresses (EIPs) with an EIP bandwidth plan. After the EIPs are associated with the EIP bandwidth plan, the EIPs share the bandwidth of the EIP bandwidth plan. This reduces public bandwidth costs.

### Prerequisites

EIPs are created and the following requirements are met:

- The EIPs are billed on a pay-as-you-go basis.
- The EIPs are created in the same region as the EIP bandwidth plan.
- The line types of the EIPs are the same as the line type of the EIP bandwidth plan.

For more information, see [Apply for an EIP](#).

### Background information

After you associate EIPs with an EIP bandwidth plan:

- Elastic Compute Service (ECS) instances, Server Load Balancer (SLB) instances, and NAT gateways that are associated with the EIPs share the bandwidth of the EIP bandwidth plan.
- The previous bandwidth limits of the EIPs become invalid. The bandwidth limits of the EIPs equal the bandwidth limit of the associated EIP bandwidth plan.
- The previous billing methods of the EIPs become invalid. You are no longer charged data transfer fees for the EIPs.
- You are charged configuration fees for the EIPs, regardless of whether the EIPs are associated with an EIP bandwidth plan. For more information, see [Billing overview](#).

#### Note

### Procedure

- 1.
2. In the top navigation bar, select the region where the EIP bandwidth plan is created.
3. On the **Internet Shared Bandwidth** page, find the EIP bandwidth plan that you want to manage and click **Add IP** in the **Actions** column.
4. In the **Add IP** dialog box, associate EIPs based on the following information, and then click **OK**.
  - If no EIP is available in the selected region, click **Buy EIP and add to Bandwidth Package** and enter the number of EIPs that you want to purchase.

The system automatically creates the specified number of EIPs that use the pay-as-go billing method and the pay-by-data-transfer metering method. Then, the system associates the EIPs with the EIP bandwidth plan. You can purchase up to 50 EIPs at a time.

- If EIPs are available in the selected region, click **Select from EIP List** and then select the EIPs that you want to associate.

### References

- [AddCommonBandwidthPackageIp](#): associates an EIP with an EIP bandwidth plan.
- [How do I replace the EIP bandwidth plan that is associated with an EIP?](#)
- [What are the impacts if I replace the EIP bandwidth plan that is associated with an EIP?](#)

## 4. Modify the name of an EIP bandwidth plan

This topic describes how to modify the name of an EIP bandwidth plan.

### Procedure

- 1.
2. Select the region of the EIP bandwidth plan on the top menu bar.
3. On the **Internet Shared Bandwidth** page, find the target EIP bandwidth plan, click the icon  in the **Instance ID/Name** column. In the dialog box that appears, enter a new name and then click **OK**.

The name must be 2 to 128 characters in length and can contain digits, underscores (\_), and hyphens (-). It must start with a letter or Chinese character.

### Related information

- [ModifyCommonBandwidthPackageAttribute](#)

## 5.Add tags

You can classify EIP bandwidth plans by adding tags to EIP bandwidth plans. This allows you to search and filter EIP bandwidth plans in a more efficient way.

### Context

It is difficult to manage a large number of EIP bandwidth plans. You can use tags to group EIP bandwidth plans. This way, you can search and filter EIP bandwidth plans in a more efficient way.

A tag is a label that you can add to an instance. Each tag consists of a key and a value. Before you add tags, take note of the following limits:

- The keys of tags that are added to the same EIP bandwidth plan must be unique.
- You cannot create tags without adding them to EIP bandwidth plans. All tags must be added to EIP bandwidth plans.
- Tag information is not shared across regions.

For example, in the China (Shanghai) region, you cannot view tags of instances that are created in the China (Hangzhou) region.

- You can modify the key and value of a tag, or remove a tag from an EIP bandwidth plan at any time. If you delete an EIP bandwidth plan, the tags that are added to the EIP bandwidth plan are removed.
- You can add up to 20 tags to each EIP bandwidth plan. You cannot increase the quota.

### Procedure

- 1.
2. In the top menu bar, select the region of the EIP bandwidth plan.
3. On the **Internet Shared Bandwidth** page, find the EIP bandwidth plan to which you want to add tags, move the pointer over the  icon in the **Tags** column, and then click **Add**.
4. In the **Configure Tags** dialog box, set the following parameters and click **OK**.

Parameter	Description
Tag Key	The key of a tag. You can select or enter a tag key. The tag key must be 1 to 64 characters in length, and cannot start with <code>aliyun</code> or <code>acs:</code> . It cannot contain <code>http://</code> or <code>https://</code> .
Tag Value	The value of a tag. You can select or enter a tag value. The tag value must be 1 to 128 characters in length, and cannot start with <code>aliyun</code> or <code>acs:</code> . It cannot contain <code>http://</code> or <code>https://</code> .

### Related information

- [TagResources](#)

# 6. Manage EIPs

## 6.1. Associate an EIP with a cloud resource

This topic describes how to associate an elastic IP address (EIP) with a cloud resource after you associate the EIP with an EIP bandwidth plan. You can manage the Internet traffic in a uniform way and enable your cloud resources to use bandwidth resources at the Gbit/s level.

### Prerequisites

An EIP is created and associated with an EIP bandwidth plan. For more information, see [Associate EIPs with an EIP bandwidth plan](#).

### Procedure

- 1.
2. On the top menu bar, select the region of the EIP bandwidth plan.
3. On the **Internet Shared Bandwidth** page, find the target EIP bandwidth plan, and click **Manage** in the **Actions** column.
4. On the **Shared Bandwidth IPs** tab, find the target elastic IP address and click **Bind** in the **Actions** column.
5. In the **Bind Elastic IP Address** dialog box, select the type and ID of the instance to be associated with, and then click **OK**.

For more information, see [Associate an EIP with an ECS instance](#).

### Related information

- [AssociateEipAddress](#)

## 6.2. Disassociate an EIP from a cloud resource

This topic describes how to disassociate an elastic IP address (EIP) from a cloud resource when the cloud resource no longer requires Internet access.

### Procedure

- 1.
2. On the top menu bar, select the region of the EIP bandwidth plan.
3. On the **Internet Shared Bandwidth** page, find the target EIP bandwidth plan, and click **Manage** in the **Actions** column.
4. On the **Shared Bandwidth IPs** tab, find the target EIP, and choose **More > Unbind** in the **Actions** column.
5. In the **Unbind Elastic IP Address** message, click **OK**.

### Related information

- [UnassociateEipAddress](#)

## 6.3. Disassociate an EIP from an EIP bandwidth plan

This topic describes how to disassociate an elastic IP address (EIP) from an EIP bandwidth plan. After an EIP is disassociated from an EIP bandwidth plan, the original bandwidth and billing method of the EIP are restored.

### Procedure

- 1.
2. On the top menu bar, select the region of the EIP bandwidth plan.
3. On the **Internet Shared Bandwidth** page, find the target EIP bandwidth plan, and click **Manage** in the **Actions** column.
4. On the **Shared Bandwidth IPs** tab, find the target EIP, and choose **More > Remove from Internet Shared Bandwidth** in the **Actions** column.
5. In the **Disassociate EIP from EIP Bandwidth Plan** dialog box, click **OK**.

### Related information

- [RemoveCommonBandwidthPackageIp](#)

# 7.Modify bandwidth

## 7.1. Modify an EIP bandwidth plan

This topic describes how to modify the maximum bandwidth of an EIP bandwidth plan.

### Procedure

- 1.
- 2.
3. On the **Internet Shared Bandwidth** page, find the target EIP bandwidth plan, and choose **More > Modify Configuration** in the **Actions** column.
4. In the **Modify configuration** section, set the following parameters, click **Activate**, and complete the payment.

Parameter	Description
<b>Metering method</b>	The metering method of the EIP bandwidth plan. Only <b>Pay-by-traffic</b> is supported.
<b>Bandwidth</b>	Specify the maximum bandwidth. You can increase or decrease the maximum bandwidth. For more information about the bandwidth range, log on to the console.

### Related information

- [ModifyCommonBandwidthPackageSpec](#)

## 7.2. Delete an EIP bandwidth plan

This topic describes how to delete an EIP bandwidth plan. You can delete only pay-as-you-go EIP bandwidth plans.

### Prerequisites

No elastic IP address (EIP) is associated with the EIP bandwidth plan that you want to delete. Before you can delete an EIP bandwidth plan, you must disassociate the EIPs from the EIP bandwidth plan. For more information, see [Disassociate an EIP from an EIP bandwidth plan](#).

### Procedure

- 1.
- 2.
3. On the **Internet Shared Bandwidth** page, find the EIP bandwidth plan that you want to delete and choose **More > Delete Shared Bandwidth Package** in the **Actions** column.
4. In the message that appears, click **OK**.

## Related information

- [DeleteCommonBandwidthPackage](#)

## 8. View monitoring data

This topic describes how to view the monitoring data of an EIP bandwidth plan collected by Cloud Monitor, such as inbound bandwidth and outbound bandwidth.

### Procedure

- 1.
- 2.
3. On the **Internet Shared Bandwidth** page, find the target EIP bandwidth plan, and click  in the **Monitor** column to view monitoring data.
  - **Inbound Bandwidth**: the bandwidth used when data is transferred from the Internet to Alibaba Cloud.
  - **Outbound Bandwidth**: the bandwidth used when data is transferred from Alibaba Cloud to the Internet.

# 9.View bills

This topic describes how to view billing details of an EIP bandwidth plan.

## Procedure

- 1.
- 2.
3. On the **Internet Shared Bandwidth** page, find the target EIP bandwidth plan, and choose **More > Bills** in the **Actions** column.
4. On the **Bills** page, you can check the billing details.

# 10. Manage quotas

This topic describes how to query the quota usage of an EIP bandwidth plan in the Virtual Private Cloud (VPC) console. If the quota of an EIP bandwidth plan cannot meet your business requirements, you can request a quota increase.

## Procedure

- 1.
2. In the left-side navigation pane, choose **O&M and Monitoring > Quota Management**.
3. On the **Quota Management** page, click the **Shared Bandwidth** tab to view the resource usage of EIP bandwidth plans that belong to the current Alibaba Cloud account.
4. To request a quota increase, click **Submit Application** in the **Actions**.
  - **Requested Value**: the maximum number of elastic IP addresses (EIPs) that can be associated with an EIP bandwidth plan. The requested value must be greater than the current quota.
  - **Reason**: the reason for the application, including business scenarios and necessity.
  - **Email**: the email address of the applicant.
5. Click **OK**.

The system automatically reviews your application. You can click **History** in the **Actions** column to view the application history and state. If your application is rejected, the state switches to **Denied**. If your application is approved, the state switches to **Approved**. The new quota immediately takes effect.