

# Alibaba Cloud

共享带宽

Best Practices

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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. Associate an ECS instance that is not assigned a public IP address with an EIP bandwidth plan

This topic describes how to associate an elastic IP address (EIP) with an EIP bandwidth plan when you create an EIP, and then bind the EIP with an Elastic Compute Service (ECS) instance that is not assigned a public IP address. This allows you to manage public IP addresses in a uniform way.

## Prerequisites

Before you perform this task, make sure the following requirements are met:

- An Alibaba Cloud account is created. If you do not have an Alibaba Cloud account, click [Create an Alibaba account](#).
- An EIP bandwidth plan is purchased. For more information, see [Create an EIP bandwidth plan](#).

## Step 1: Purchase an EIP and associate it with an EIP bandwidth plan

For more information about this step, see:

1. Log on to the [EIP bandwidth plan console](#).
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 **Add IP** in the **Actions** column.
4. In the **Add IP** dialog box, click the **Buy EIP and add to Bandwidth Package** tab, enter the number of the EIPs you want to purchase, and then click **OK**.  
The EIPs are billed on a pay-by-data-transfer basis. The system automatically creates the specified number of EIPs and associates them with the EIP bandwidth plan.

## Step 2: Associate the EIP with an ECS instance

For more information about this step, see:

1. On the **Internet Shared Bandwidth** page, find the target EIP bandwidth plan, and click **Manage** in the **Actions** column.
2. On the **Shared Bandwidth IPs** tab, find the newly associated EIP and click **Bind** in the **Actions** column.
3. In the **Bind Elastic IP Address** dialog box, set the following parameters to associate the EIP with an ECS instance:
  - **Instance Type**: Select **ECS Instance**.
  - **ECS Instance**: Select the ECS instance to be associated with the EIP.
4. Click **OK**.

## 2. Associate an ECS instance that is assigned an EIP with an EIP bandwidth plan

This topic describes how to associate an Elastic Compute Service (ECS) instance that is assigned an elastic IP address (EIP) with an EIP bandwidth plan. This allows you to manage public IP addresses in a uniform way.

### Prerequisites

Before you perform this task, make sure the following requirements are met:

- An Alibaba Cloud account is created. If you do not have an Alibaba Cloud account, click [Create an Alibaba Cloud account](#).
- An EIP bandwidth plan is purchased. For more information, see [Create an EIP bandwidth plan](#).

### Procedure

1. Log on to the [EIP bandwidth plan console](#).
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 **Add IP** in the **Actions** column.
4. In the **Add IP** dialog box, click the **Select from EIP List** tab.
5. Select the EIP that is associated with an ECS instance and click **OK**.

 **Note** After the EIP is associated with an EIP bandwidth plan, the maximum bandwidth of the EIP equals that of the EIP bandwidth plan. In addition, the billing of the EIP stops, regardless of whether it is billed by traffic or bandwidth.

## 3. Associate an ECS instance that uses a public IP address with an EIP bandwidth plan

This topic describes how to convert the public IP address of an ECS instance to an elastic IP address (EIP), and then associate the ECS instance with an EIP bandwidth plan. This allows you to manage public IP addresses in a uniform way.

### Prerequisites

Before you perform this task, make sure the following requirements are met:

- An Alibaba Cloud account is created. If you do not have an Alibaba Cloud account, click [Create an Alibaba Cloud account](#).
- An EIP bandwidth plan is purchased. For more information, see [Create an EIP bandwidth plan](#).

### Step 1: Convert the public IP address of an ECS instance to an EIP

For more information about this step, see:

 **Note** You must note the limits on converting an ECS public IP address to an EIP. For more information, see [Convert the static public IP address of an ECS instance in a VPC to an EIP](#).

1. Log on to the [ECS console](#).
2. In the left-side navigation pane, choose **Instances & Images > Instances**.
3. On the top navigation bar, select the region where the target ECS instance is deployed.
4. On the **Instances** page, find the target ECS instance, and choose **More > Network and Security Group > Convert to EIP** in the **Actions** column.
5. In the **Convert to EIP** dialog box, click **OK**.

### Step 2: Associate the ECS instance with an EIP bandwidth plan

For more information about this step, see:

1. Log on to the [EIP bandwidth plan console](#).
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 **Add IP** in the **Actions** column.
4. In the **Add IP** dialog box, click the **Select from EIP List** tab.
5. Select the EIP that is associated with an ECS instance and click **OK**.

 **Note** After the EIP is associated with an EIP bandwidth plan, the maximum bandwidth of the EIP equals that of the EIP bandwidth plan. In addition, the billing of the EIP stops, regardless of whether it is billed by traffic or bandwidth.

# 4. Associate an ECS instance deployed in a classic network with an EIP bandwidth plan

This topic describes how to migrate an Elastic Compute Service (ECS) instance from a classic network to a Virtual Private Cloud (VPC) network, and then associate the ECS instance with an EIP bandwidth plan. This allows you to manage the public IP addresses in a uniform way.

## Prerequisites

Before you perform this task, make sure the following requirements are met:

- An Alibaba Cloud account is created. If you do not have an Alibaba Cloud account, click [Create an Alibaba Cloud account](#).
- An EIP bandwidth plan is purchased. For more information, see [Create an EIP bandwidth plan](#).

## Step 1: Migrate an ECS instance from a classic network to a network

VPC networks are isolated networks, which ensure higher network security. You can migrate ECS instances from a classic network to a VPC network. For more information, see [Migrate ECS instances](#).

## Step 2: Associate the migrated ECS instance with an EIP bandwidth plan

After the ECS instance is migrated from a classic network to a VPC network, you can use one of the following methods to associate the ECS instance with an EIP bandwidth plan. For more information about this step, see:

- Associate the ECS instance with an EIP bandwidth plan when the ECS instance is not assigned a public IP address. For more information, see [Associate an ECS instance that is not assigned a public IP address with an EIP bandwidth plan](#).
- Associate the ECS instance with an EIP bandwidth plan when the ECS instance is assigned a public IP address. For more information, see [Associate an ECS instance that uses a public IP address with an EIP bandwidth plan](#).