

**Elastic IP**

# Getting Started

**Issue**            01  
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For vulnerability information, enterprise customers can visit the following web page:

<https://securitybulletin.huawei.com/enterprise/en/security-advisory>

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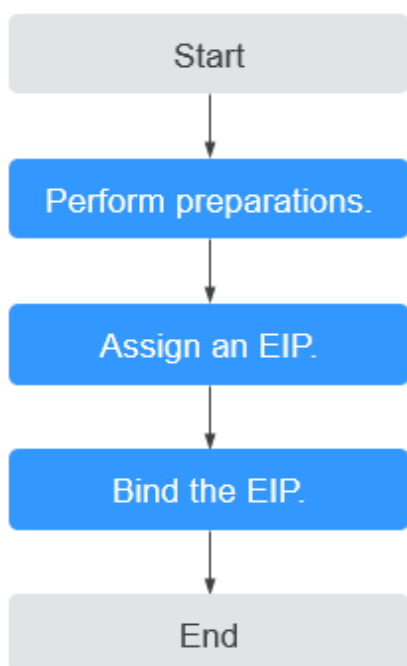
# 1 Quick Start

This document describes how to assign an EIP and bind it to an ECS to allow the ECS to access the Internet.

**Figure 1-1** shows the configuration procedure.

If you want to assign or bind an EIP, see [Buying an EIP and Binding It to an ECS](#).

**Figure 1-1** Configuration procedure



# 2 Buying an EIP and Binding It to an ECS

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## Step 1: Preparations

### Register with Huawei Cloud and Complete Real-Name Authentication

If you already have a HUAWEI ID, skip this step. To create a HUAWEI ID, do as follows:

1. Log in at <https://www.huaweicloud.com/intl/en-us/> and click **Register**.
2. On the displayed page, register an account as prompted.  
After you have successfully registered, the system automatically redirects you to the account information page.
3. Complete real-name authentication by following the instructions in [Real-Name Authentication](#).

### Top Up Your Account

Ensure that your account balance is sufficient.



- For details about the price of EIPs, see [Pricing Details](#).
- For details about how to top up an account, see [Topping Up an Account](#).

#### NOTE

Real-name authentication is required when your account purchases or uses resources in Chinese Mainland regions.

Real-name authentication is not required when your account purchases or uses resources in regions outside of Chinese Mainland.

## Step 2: Buy an EIP

1. Log in to the management console.
2. Click  in the upper left corner and select the desired region and project.
3. Click  in the upper left corner and choose **Networking** > **Elastic IP**.
4. On the displayed page, click **Buy EIP**.
5. Set the parameters as prompted.

**Table 2-1** Parameter descriptions

Parameter	Description	Example Value
Billing Mode	The following billing modes are available: <ul style="list-style-type: none"><li>• Yearly/Monthly</li><li>• Pay-per-use</li></ul>	Pay-per-use
Region	Regions are geographic areas that are physically isolated from each other. The networks inside different regions are not connected to each other, so resources cannot be shared across different regions. For lower network latency and faster access to your resources, select the region nearest you. The region selected for the EIP is its geographical location. <b>NOTE</b> The geographical location of an EIP purchased in CN North-Ulanqab1 is Beijing.	CN-Hong Kong

Parameter	Description	Example Value
EIP Type	<ul style="list-style-type: none"> <li>● <b>Dynamic BGP:</b> Dynamic BGP provides automatic failover and chooses the optimal path when a network connection fails.</li> <li>● <b>Static BGP:</b> Static BGP offers more routing control and protects against route flapping, but an optimal path cannot be selected in real time when a network connection fails.</li> <li>● <b>Premium BGP:</b> Premium BGP chooses the optimal path and ensures low-latency and high-quality networks. BGP is used to interconnect with lines of multiple mainstream carriers. Public network connections that feature low latency and high quality are directly established between Chinese mainland and Hong Kong (China). (This parameter is available only in <b>CN-Hong Kong</b>.)</li> </ul> <p>For details, see <a href="#">What Are the Differences Between Static BGP and Dynamic BGP?</a></p>	Dynamic BGP



Parameter	Description	Example Value
Billed By	<p>This parameter is available only when you set <b>Billing Mode</b> to <b>Pay-per-use</b>.</p> <ul style="list-style-type: none"> <li>• <b>Bandwidth:</b> You specify a maximum bandwidth and pay for the amount of time you use the bandwidth. This is suitable for scenarios with heavy or stable traffic.</li> <li>• <b>Traffic:</b> You specify a maximum bandwidth and pay for the total traffic you use. This is suitable for scenarios with light or sharply fluctuating traffic.</li> <li>• <b>Shared Bandwidth:</b> The bandwidth can be shared by multiple EIPs. This is suitable for scenarios with staggered traffic.</li> </ul>	Bandwidth
Bandwidth	The bandwidth size in Mbit/s.	100
DDoS Protection	<p>Cloud Native Anti-DDoS Basic</p> <p>Cloud Native Anti-DDoS Basic provides up to 5 Gbit/s of DDoS mitigation capacity. If the attack to an EIP exceeds 5 Gbit/s, the EIP will be blocked.</p>	-
EIP Name	The EIP name.	eip-test
Enterprise Project	<p>The enterprise project that the EIP belongs to.</p> <p>An enterprise project facilitates project-level management and grouping of cloud resources and users. The name of the default project is <b>default</b>.</p> <p>For details about creating and managing enterprise projects, see the <a href="#">Enterprise Management User Guide</a>.</p>	default
Advanced Settings	Click the drop-down arrow to configure parameters, including the bandwidth name and tag.	-
Bandwidth Name	The name of the bandwidth.	bandwidth

Parameter	Description	Example Value
Tag	<p>The EIP tags. Each tag contains a key and value pair.</p> <p>The tag key and value must meet the requirements listed in <a href="#">Table 2-2</a>.</p> <p><b>NOTE</b> If your organization has created a tag policy for EIP, you need to add tags for EIP based on the tag policy. If a tag does not comply with the tagging rules, the creation may fail. Contact the organization administrator to learn details about the tag policy.</p>	<ul style="list-style-type: none"> <li>• Key: ipv4_key1</li> <li>• Value: 3005eip</li> </ul>
Monitoring	<p>Used to monitor the EIP and enabled by default.</p> <p>You can use the management console or APIs provided by Cloud Eye to query the metrics and alarms generated for the EIP and bandwidth.</p>	-
Required Duration	<p>The duration for which the purchased EIP will use. The duration must be specified if the <b>Billing Mode</b> is set to <b>Yearly/Monthly</b>.</p>	1 month
Auto-renew	<p>Whether to select <b>Auto-renew</b>. You can select it if the <b>Billing Mode</b> is set to <b>Yearly/Monthly</b>. The auto-renewal period is determined by the required duration.</p> <ul style="list-style-type: none"> <li>• Monthly subscription: The subscription is renewed every month.</li> <li>• Yearly subscription: The subscription is renewed each year.</li> </ul>	-
Quantity	<p>The number of EIPs you want to purchase.</p> <p>The quantity must be specified if the <b>Billing Mode</b> is set to <b>Pay-per-use</b>.</p>	1

**Table 2-2** EIP tag requirements

Parameter	Requirement	Example Value
Key	<ul style="list-style-type: none"><li>• Cannot be left blank.</li><li>• Must be unique for each EIP.</li><li>• Can contain a maximum of 36 characters.</li><li>• Can contain letters, digits, underscores (_), and hyphens (-).</li></ul>	Ipv4_key1
Value	<ul style="list-style-type: none"><li>• Can contain a maximum of 43 characters.</li><li>• Can contain letters, digits, underscores (_), periods (.), and hyphens (-).</li></ul>	3005eip

 **NOTE**

- If you are buying an EIP billed on a pay-per-use basis and you want to use a shared bandwidth, you can only select an existing shared bandwidth from the **Bandwidth Name** drop-down list. If there are no shared bandwidths to select, purchase a shared bandwidth first.
  - A dedicated bandwidth cannot be changed to a shared bandwidth and vice versa. However, you can purchase a shared bandwidth for pay-per-use EIPs.
    - After an EIP is added to a shared bandwidth, the EIP will use the shared bandwidth.
    - After an EIP is removed from the shared bandwidth, the EIP will use the dedicated bandwidth.
6. Click **Next**.
  7. Click **Submit**.

### Step 3: Bind an EIP

1. In the EIP list, locate the row that contains the EIP, and click **Bind**.
2. Select the instance.
3. Click **OK**.

 **NOTE**

To bind an instance to an EIP:

- If the instance is an ECS:
  - The ECS must be in the running or stopped status.
  - The ECS must be in the same region as that of the EIP.
  - The ECS has no EIP bound to it.
- If the instance is a virtual IP address:
  - The virtual IP address must be in the same region as that of the EIP.
  - The virtual IP address must be in the available or assigned status.
- If the instance is a BMS:

The BMS must be in the same region as that of the EIP.