

Alibaba Cloud Elastic IP Address

Product Introduction

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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.	 Danger: 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.	 Warning: 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.	 Notice: 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.	 Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	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>
{ } or {a b}	It indicates that it is a required value, and only one item can be selected.	<code>swich {stand slave}</code>

Contents

Legal disclaimer.....	I
Generic conventions.....	I
1 What is Elastic IP Address?.....	1
2 Limits.....	2

1 What is Elastic IP Address?

An Elastic IP Address (EIP) is a public IP address resource that you can purchase and possess independently. You can bind an EIP to an ECS or SLB instance of the VPC network, or a NAT Gateway.

An EIP is a type of NAT IP address. It is located in the public network gateway of Alibaba Cloud, and is mapped to the private network interface card (NIC) of the bound ECS instance using the NAT method. Therefore, an ECS instance bound with an EIP can communicate with the Internet without disclosing the EIP on the NIC.

Differences between an EIP and an ECS public IP

The following table lists the differences between an EIP and an ECS public IP.

Item	EIP	ECS public IP
Supported networks	VPC	VPC and classic network
Independently possessed	Yes	No
Elastically bound to and from an ECS instance	Yes	No
Disclosed on the NIC of the ECS instance	No	Classic Network: Yes VPC: No

Benefits

- Independently purchased and possessed

You can purchase an EIP as an independent resource instead of purchasing it together with other computing or storage resources.

- Flexible binding

You can bind an EIP to an instance as needed to make the instance accessible to the Internet. You can release the EIP whenever Internet communication is not needed for the instance.

- Configurable network capabilities

You can adjust the bandwidth of an EIP as needed. The bandwidth change takes effect immediately.

2 Limits

Get yourself familiarize with the following limits before using Elastic IP Address (EIP).

General limits

- Up to 20 Elastic IP Addresses can be created per account. Open a ticket to apply for more.
- You can bind an EIP to a resource only when the status of the EIP is available.
- The binding of an EIP takes effect immediately.
- An EIP can be bound to only one resource at a time.
- An EIP address that is locked because of security reasons cannot be bound or unbound.

Limits on binding ECS instances

- The ECS instance must be in a VPC network.
- The ECS instance and the EIP must be in the same region.
- The ECS instance must be in the running or stopped status.
- The ECS instance does not have a public IP, nor is it bound to any EIP.
- Each ECS instance can have only one EIP bound to it at a time.

Limits on binding NAT Gateway

- No bandwidth package was purchased under the account that the NAT Gateway belongs to before January 26, 2018.
- The NAT Gateway and the EIP must be in the same region.
- Up to 10 EIPs can be bound to a NAT Gateway.

Limits on binding SLB

- The SLB instance must be in a VPC network.
- The SLB instance and the EIP must be in the same region.
- Each SLB instance can have only one EIP bound to it at a time.