

Alibaba Cloud

NAT Gateway Pricing

Document Version: 20201125

Legal disclaimer

Alibaba Cloud reminds you to carefully read and fully understand the terms and conditions of this legal disclaimer before you read or use this document. If you have read or used this document, it shall be deemed as your total acceptance of this legal disclaimer.

1. You shall download and obtain this document from the Alibaba Cloud website or other Alibaba Cloud-authorized channels, and use this document for your own legal business activities only. The content of this document is considered confidential information of Alibaba Cloud. You shall strictly abide by the confidentiality obligations. No part of this document shall be disclosed or provided to any third party for use without the prior written consent of Alibaba Cloud.
2. No part of this document shall be excerpted, translated, reproduced, transmitted, or disseminated by any organization, company or individual in any form or by any means without the prior written consent of Alibaba Cloud.
3. The content of this document may be changed because of product version upgrade, adjustment, or other reasons. Alibaba Cloud reserves the right to modify the content of this document without notice and an updated version of this document will be released through Alibaba Cloud-authorized channels from time to time. You should pay attention to the version changes of this document as they occur and download and obtain the most up-to-date version of this document from Alibaba Cloud-authorized channels.
4. This document serves only as a reference guide for your use of Alibaba Cloud products and services. Alibaba Cloud provides this document based on the "status quo", "being defective", and "existing functions" of its products and services. Alibaba Cloud makes every effort to provide relevant operational guidance based on existing technologies. However, Alibaba Cloud hereby makes a clear statement that it in no way guarantees the accuracy, integrity, applicability, and reliability of the content of this document, either explicitly or implicitly. Alibaba Cloud shall not take legal responsibility for any errors or lost profits incurred by any organization, company, or individual arising from download, use, or trust in this document. Alibaba Cloud shall not, under any circumstances, take responsibility for any indirect, consequential, punitive, contingent, special, or punitive damages, including lost profits arising from the use or trust in this document (even if Alibaba Cloud has been notified of the possibility of such a loss).
5. By law, all the contents in Alibaba Cloud documents, including but not limited to pictures, architecture design, page layout, and text description, are intellectual property of Alibaba Cloud and/or its affiliates. This intellectual property includes, but is not limited to, trademark rights, patent rights, copyrights, and trade secrets. No part of this document shall be used, modified, reproduced, publicly transmitted, changed, disseminated, distributed, or published without the prior written consent of Alibaba Cloud and/or its affiliates. The names owned by Alibaba Cloud shall not be used, published, or reproduced for marketing, advertising, promotion, or other purposes without the prior written consent of Alibaba Cloud. The names owned by Alibaba Cloud include, but are not limited to, "Alibaba Cloud", "Aliyun", "HiChina", and other brands of Alibaba Cloud and/or its affiliates, which appear separately or in combination, as well as the auxiliary signs and patterns of the preceding brands, or anything similar to the company names, trade names, trademarks, product or service names, domain names, patterns, logos, marks, signs, or special descriptions that third parties identify as Alibaba Cloud and/or its affiliates.
6. Please directly contact Alibaba Cloud for any errors of this document.

Document conventions








Style	Description	Example
 Danger	A danger notice 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.
 Warning	A warning notice 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 restart an instance.
 Notice	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	 Notice: If the weight is set to 0, the server no longer receives new requests.
 Note	A note indicates supplemental instructions, best practices, tips, and other content.	 Note: You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click Settings > Network > Set network type .
Bold	Bold formatting is used for buttons, menus, page names, and other UI elements.	Click OK .
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>

Table of Contents


1. Billing overview	05
2. Pay-as-you-go	06
3. FAQ about NAT Gateway billing	10

1. Billing overview

NAT gateways are enterprise-class gateways that provide Source Network Address Translation (SNAT) and Destination Network Address Translation (DNAT) services for Internet access. You are charged for using NAT gateways. This topic describes the billing of NAT gateways.

Overview

Before a NAT gateway can access the Internet, you must associate an elastic IP address (EIP) with the NAT gateway. You are charged for NAT gateways and EIPs that are associated with the NAT gateways.

 **Note** If you have purchased NAT service plans before January 26, 2018, you can associate static public IP addresses in the NAT service plan with the NAT gateway to provide Internet access services. You are charged for NAT gateways and NAT service plans that are associated with the NAT gateways. For more information, see [Billing of NAT service plans](#).

Billing methods

NAT gateways support the subscription and pay-as-you-go billing methods.

Billing method of NAT gateways	Description	Reference
Subscription	Subscription is a billing method that requires you to pay a subscription fee before you can use the service. Subscription NAT gateways are cost-effective. Discounts are offered on subscription NAT gateways.	Subscription
Pay-as-you-go	The pay-as-you-go billing method requires you to pay for resources based on the actual usage. If you want to create or delete NAT gateways based on your needs, you can purchase pay-as-you-go NAT gateways instead of subscription NAT gateways.	Pay-as-you-go

Billing methods of EIPs

After you create a NAT gateway, you must associate an EIP with the NAT gateway. This enables the NAT gateway to access the Internet. You are charged for the EIPs that are associated with NAT gateways. For more information, see [Subscription](#) and [Pay-as-you-go](#).

If an EIP is associated with an EIP bandwidth plan, the predefined billing method of the EIP becomes invalid. The NAT gateway with which the EIP is associated is charged an Internet data transfer fee based on the billing method of the EIP bandwidth plan. For more information, see [Billing](#).

2. Pay-as-you-go

NAT gateways can be billed on a pay-as-you-go basis. If you want to create or delete NAT gateways based on your needs, you can purchase pay-as-you-go NAT gateways instead of subscription NAT gateways. This topic describes the billing rules of pay-as-you-go NAT gateways.

Overview

The pay-as-you-go billing method requires you to pay for resources based on the actual usage.

Pay-as-you-go NAT gateways provide the following features:

- Pay-as-you-go NAT gateways are billed based on the billing cycle. Bills are generated and fees are deducted from your account after each billing cycle.
- You can delete NAT gateways at any time. After you delete a NAT gateway, the NAT gateway is no longer billed. For more information, see [Delete NAT gateways](#).
- The pay-as-you-go billing method supports the pay-by-specification metering method. The pay-by-specification metering method is used to meter and bill the usage of a NAT gateway based on the size of the gateway. You are charged a fixed fee for the NAT gateway after each billing cycle. For more information, see [Pay-by-specification](#).

Pay-by-specification

Overview

Fee of a pay-by-specification NAT gateway = Instance fee + Specification fee

- Instance fee = Instance unit price × Usage duration
- Specification fee = Specification unit price × Usage duration


The usage duration of a NAT gateway is calculated from the time when the gateway is created to the time when the NAT gateway is released. Standard NAT gateways and enhanced NAT gateways that use the pay-by-specification metering method have different billing cycles.

- Standard NAT gateways that use the pay-by-specification metering method are charged daily. Bills are generated on a daily basis. If you use a standard NAT gateway for less than one day, the usage duration is rounded up to one day.
- Enhanced NAT gateways that use the pay-by-specification metering method are charged hourly. Bills are generated on an hourly basis. If you use an enhanced NAT gateway for less than one hour, the usage duration is rounded up to one hour.

Unit price

NAT gateways are available in the following sizes: Small, Middle, Large, and Super Large-1. The size of a NAT gateway determines the SNAT performance, including the maximum number of concurrent connections and the number of new connections per second. However, the size of the NAT gateway does not affect the DNAT performance. For more information, see [Sizes of NAT gateways](#).

The instance unit price and specification unit price vary based on the size of the NAT gateway. The following table describes the unit price of each size.

 **Note** If the prices in this table are different from those on the buy page, the prices on the [buy page](#) shall prevail.

Region	Small (unit price)		Middle (unit price)		Large (unit price)		Super Large-1 (unit price)	
	(USD/hour)	(USD/day)	(USD/hour)	(USD/day)	(USD/hour)	(USD/day)	(USD/hour)	(USD/day)
China (Qingdao)	0.076	1.829	0.146	3.505	0.287	6.888	0.507	12.192
China (Beijing)								
China (Zhangjiakou)								
China (Hohhot)								
China (Ulanqab)								
China (Hangzhou)								
China (Shanghai)								
China (Shenzhen)								
China (Heyuan)								
China (Chengdu)								
US (Virginia)	0.102	2.448	0.190	4.572	0.375	8.991	0.660	15.849
China (Hong Kong)								
Japan (Tokyo)	0.122	2.926	0.233	5.608	0.457	10.972	0.811	19.507

Region	Small (unit price)		Middle (unit price)		Large (unit price)		Super Large-1 (unit price)	
	(USD/hour)	(USD/day)	(USD/hour)	(USD/day)	(USD/hour)	(USD/day)	(USD/hour)	(USD/day)
Singapore (Singapore)	0.114	2.743	0.222	5.334	0.433	10.363	0.762	18.287
Indonesia (Jakarta)								
Australia (Sydney)	0.152	3.657	0.293	5.334	0.573	13.716	1.015	24.383
Malaysia (Kuala Lumpur)	0.109	2.606	0.211	5.068	0.410	9.845	0.724	17.374
India (Mumbai)								
US (Silicon Valley)	0.108	2.591	0.210	5.029	0.401	9.601	0.712	17.068
UAE (Dubai)	0.229	5.486	0.439	10.515	0.860	20.64	1.522	36.575
Germany (Frankfurt)	0.137	3.292	0.262	6.309	0.515	12.344	0.913	21.945
UK (London)	0.132	3.168	0.253	6.072	0.494	11.856	0.878	21.072

Example

You created a small enhanced NAT gateway in UK (London) at 08:10:00 (UTC+8) on October 18, 2020, and then released the gateway at 11:50:00 (UTC+8) on October 18, 2020. This gateway uses the pay-by-specification metering method. You are charged for a usage duration of 4 hours. The total fee of the NAT gateway includes:

- The fee that was charged for the usage from 08:10:00 (UTC+8) on October 18, 2020 to 09:00:00 (UTC+8) on October 18, 2020.
- The fee that was charged for the usage from 09:00:00 (UTC+8) on October 18, 2020 to 10:00:00 (UTC+8) on October 18, 2020.

- The fee that was charged for the usage from 10:00:00 (UTC+8) on October 18, 2020 to 11:00:00 (UTC+8) on October 18, 2020.
- The fee that was charged for the usage from 11:00:00 (UTC+8) on October 18, 2020 to 12:00:00 (UTC+8) on October 18, 2020.

The total fee of the NAT gateway: $0.132 \times 4 = \text{USD } 0.528$.

Billing after configuration changes

You can change the size of an enhanced NAT gateway that uses the pay-by-specification metering method. If you change the size of an enhanced NAT gateway within a billing cycle, you are charged based on the largest size that you specified for the enhanced NAT gateway.

For example, you created a Small-sized enhanced NAT gateway at 15:00:00 (UTC+8) on October 10, 2020. You changed the size of the enhanced NAT gateway to Middle at 16:30:00 (UTC+8) on October 10, 2020, and then you released the enhanced NAT gateway at 17:50:00 (UTC+8) on October 10, 2020. The total fee of the enhanced NAT gateway includes:

- The fee that was charged for the usage of the Small-sized enhanced NAT gateway from 15:00:00 (UTC+8) on October 10, 2020 to 16:00:00 (UTC+8) on October 10, 2020.
- The fee that was charged for the usage of the Middle-sized enhanced NAT gateway from 16:00:00 (UTC+8) on October 10, 2020 to 17:00:00 (UTC+8) on October 10, 2020.
- The fee that was charged for the usage of the Middle-sized enhanced NAT gateway from 17:00:00 (UTC+8) on October 10, 2020 to 18:00:00 (UTC+8) on October 10, 2020.

Overdue payments

If a NAT gateway has an overdue payment, take note of the following rules:

- The NAT gateway continues to serve your workloads in the next 14 days from the time when the payment becomes overdue.
- On the 15th day from the time when the payment becomes overdue, the NAT gateway is suspended. In this case, you cannot perform any operations on the NAT gateway.
- If you do not complete the overdue payment within 15 days after the NAT gateway is suspended, the NAT gateway is automatically deleted. An email notification is sent to you one day before the NAT gateway is deleted. After the NAT gateway is deleted, the configurations and data of the NAT gateway are deleted and cannot be recovered.

Top up your account

Before you top up your account, take note of the following rules:

- If you top up the account within 15 days after the payment becomes overdue, your service is not disrupted.
- If you top up the account within 30 days after the payment becomes overdue, the system automatically completes the overdue payment. After the overdue payment is completed, the NAT gateway starts to provide services immediately.

3.FAQ about NAT Gateway billing

This topic provides answers to some commonly asked questions about NAT Gateway billing.

- [How am I charged for using NAT gateways?](#)
- [What is the metering method for pay-as-you-go NAT gateways?](#)
- [Why am I still charged for an EIP and a NAT gateway after I disassociated the EIP from the NAT gateway?](#)

How am I charged for using NAT gateways?


To enable Internet access for a NAT gateway, you must associate an elastic IP address (EIP) with the NAT gateway. You are charged for using NAT gateways and EIPs that are associated with the NAT gateways. For more information, see [Billing overview](#).

What is the metering method for pay-as-you-go NAT gateways?

For a pay-as-you-go NAT gateway, the pay-by-specification metering method is used to meter and bill the usage based on the size of the gateway. You are charged a fixed fee for the NAT gateway after each billing cycle. For more information, see [Pay-by-specification](#).

Why am I still charged for an EIP and a NAT gateway after I disassociated the EIP from the NAT gateway?

You are still charged for the EIP and NAT gateway because you did not release the EIP and delete the NAT gateway after you disassociated the EIP from the NAT gateway. To stop the billing, release the EIP and delete the NAT gateway. For more information, see [Release an EIP](#) and [Delete NAT gateways](#).

 **Note** Only EIPs and NAT gateways that are billed on a pay-as-you-go basis can be manually released or deleted. EIPs and NAT gateways that are charged on a subscription basis are automatically suspended after the subscription expires.