

Bandwidth Package

Operation Guide

Product Documentation



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Operation Guide

Managing IP Bandwidth Packages

Creating an IP Bandwidth Package

Last updated : 2024-12-24 19:03:27

This document describes how to create an IP bandwidth package under your bill-by-IP account.

Restrictions

A bill-by-IP account only supports creating an IP bandwidth package. If you have a bill-by-CVM account and need to use IP bandwidth packages, you can submit a [ticket](#) to upgrade to a bill-by-IP account. To confirm your account type, see [Checking Account Type](#).

IP bandwidth packages can be divided into the following types according to the bandwidth type:

Bandwidth Type	Line Description	Billing Mode	Creation Description
General BGP bandwidth package	A bandwidth package for the line type of general BGP IP.	Pay-as-you-go mode (Bandwidth-based Billing , Monthly Top 5th Billing , Enhanced 95th Percentile Billing , and Main Traffic Billing)	It can be manually created in the console.
Dedicated BGP bandwidth package	A bandwidth package for the line type of dedicated BGP IP.	Pay-as-you-go mode (Monthly Top 5th Billing and Enhanced 95th Percentile Billing)	
AIA BGP bandwidth package	A bandwidth package for the line type of AIA BGP IP.	Pay-as-you-go mode (Monthly 95th Percentile Billing)	It is automatically created. Manual creation is not supported.
CMCC/CUCC/CTCC bandwidth package	A bandwidth package for the line type of static single-line IP to access the public network through a single ISP.	Pay-as-you-go mode (Daily Settlement and Enhanced 95th Percentile Billing)	It can be manually created in the console.

Directions

1. Log in to the [VPC console](#) and click **Bandwidth Package** on the left sidebar.
2. On the **Bandwidth Package** page, select a region and click **Create** in the upper-left corner.
3. In the **Create Bandwidth Package** dialog box, enter a name, select a line type and billing mode, and set the bandwidth cap.
4. After confirming the use limits and amount, click **Confirm**.

Parameter	Description
Name	Supported characters: a-z, 0-9, ., -. Length: 1-60 characters.
Line Type	General BGP: A bandwidth package for the line type of general BGP IP. Dedicated BGP: A bandwidth package for the line type of dedicated BGP IP. Currently, only bill-by-IP accounts support dedicated BGP bandwidth packages. Bill-by-CVM accounts need to be upgraded before using these packages. For upgrading details, see Checking Account Type . These packages are supported only in Hong Kong (China). For pricing details, see Dedicated BGP Bandwidth Package . Static single-line: A bandwidth package for the line type of CMCC/CUCC/CTCC.
Billing Mode/Billing Description	Pay-as-you-go - top 5 billing : Fees are settled on a monthly basis and billing is based on the actual usage minus the top 5 daily peak bandwidth values. Pay-as-you-go - monthly 95th percentile billing : Fees are settled on a monthly basis and billing is based on the actual usage minus the top 5 monthly peak bandwidth values. It is applicable only to AIA BGP bandwidth packages. Pay-as-you-go - bandwidth billing : For a general BGP bandwidth package, fees are settled on a daily basis and billing is based on the bandwidth cap selected for the day. Pay-as-you-go - daily settlement : For a static single-line bandwidth package, fees are settled on a daily basis and billing is based on the daily peak bandwidth of the bandwidth package. Pay-as-you-go - enhanced 95th percentile billing : Fees are settled on a monthly basis and billing is based on the higher value between the actual usage minus the top 5 daily peak bandwidth values and the monthly base bandwidth. Pay-as-you-go - main traffic billing : Fees are settled on an hourly basis and billing is based on the main traffic, which is the larger one between the inbound and outbound traffic of the bandwidth package.
Bandwidth Cap	When selecting the prepaid, pay-as-you-go - bandwidth billing, pay-as-you-go - daily settlement, pay-as-you-go - enhanced 95th percentile billing, or pay-as-you-go - main traffic billing mode, you need to set the bandwidth cap for the bandwidth package.
Base Ratio	Only applicable to the pay-as-you-go - enhanced 95th percentile billing mode. The base fees are calculated daily and charged based on the package duration. For details, see Pay-as-You-Go - Enhanced 95th Percentile Billing .

Duration	Only required for the prepaid mode.
Auto-Renewal	If renewal is not needed upon expiration, you can uncheck it.
Advanced Options	Supports adding tags such as key-value pairs for classified management of bandwidth package resources.
Unit Price	For billing details, see Billing Overview .

Subsequent Operations

[Adding Resources](#)

Deleting an IP Bandwidth Package

Last updated : 2024-12-24 19:03:27





This document describes how to delete an IP bandwidth package under your bill-by-IP account.

Prerequisites

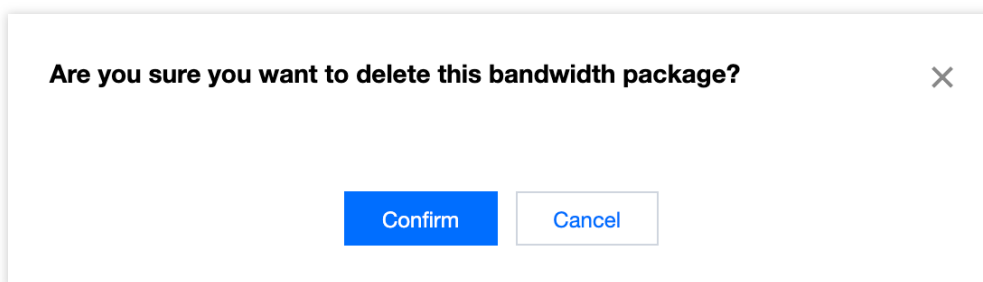
Before deleting an IP bandwidth package, ensure that all resources contained have been removed. For detailed directions, see [Removing Resources](#).

Directions

1. Log in to the [VPC console](#).
2. Click **Bandwidth Package** on the left sidebar.
3. Select the region, locate the bandwidth package you want to delete, and click **Delete** under its **Operation** column.

ID/Name	Monitoring	Line Type	Status	Billing Mode ^Y	Bandwidth Cap	Expiry Time	Operation
		General BGP	Running	Pay as you go - Top 5 Billing	-	-	Delete More
		General BGP	Running	Pay as you go - Top 5 Billing	-	-	Delete More

4. Click **Confirm** in the pop-up dialog box to confirm the deletion.



Adding Resources

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After creating a bandwidth package instance, you need to add cloud resources to the instance to use the bandwidth package.

Prerequisites

You have [created an IP bandwidth package](#).

Restrictions

Type	Description
Resource restrictions	<p>Pay-as-you-go bandwidth packages</p> <p>Pay-as-you-go bandwidth packages only support adding cloud resources billed by traffic or by hourly bandwidth. Monthly subscription cloud resources are not supported.</p> <p>General BGP bandwidth packages support adding EIPs, public IP addresses, EIPv6 addresses, and public network CLB instances with the same line type.</p> <p>Dedicated BGP bandwidth packages support adding EIPs with the same line type.</p> <p>Pay-as-you-go bandwidth packages in the isolation period do not support adding resources.</p>
Billing restrictions	<p>After a cloud resource is added to a bandwidth package, it will be billed by bandwidth package. No additional fees will be charged for the traffic and bandwidth, but cloud resource instance fees will still apply.</p> <p>IP resource fees of an EIP are independent of whether it is added to a bandwidth package. If the EIP is bound to other cloud resources, the IP resource fees are not charged.</p>
Quota restrictions	<p>Monthly pay-as-you-go: Up to 100 resources (including EIPs, public IP addresses, EIPv6 addresses, and CLBs in the same region) can be added to a bandwidth package.</p> <p>Daily pay-as-you-go: The number of resources that can be added to a bandwidth package depends on the bandwidth cap of the package. You can view details in the BWP console.</p>

Directions

1. Log in to the [VPC console](#) and click **Bandwidth Package** on the left sidebar.
2. Select a region in the upper-left corner of the **Bandwidth Package** page, find the target instance in the instance list, and click the **instance ID**.

3. In the **Bandwidth Package Resources** section on the details page, click **Add Resources**.
4. In the **Tagging Resources** dialog box, select the resource type and instance. Then click **OK**. The figure below uses a pay-as-you-go BGP bandwidth package as an example.
5. (Optional) To avoid incurring high costs, it is recommended to set a bandwidth cap for resources in the bandwidth package.

For settings of a bandwidth cap for public IP addresses, see [Adjusting Network Configuration](#).

For settings of a bandwidth cap for CLBs, see [Adjusting Instance Public Network Configurations](#).

Removing Resources

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When your cloud resource no longer needs to use a bandwidth package, you can remove it from the bandwidth package.

Note:

After a cloud resource is removed from a bandwidth package, it will be billed by traffic.

Restrictions

Pay-as-you-go bandwidth packages:

Pay-as-you-go bandwidth packages in the isolation period do not support adding, removing, or migrating resources.

Directions

1. Log in to the [VPC console](#).
2. Click **Bandwidth Package** on the left sidebar.
3. Take a monthly pay-as-you-go BGP bandwidth package as an example. On the **Bandwidth Package** page, select a region, find the target bandwidth package instance, and click the **instance ID**.
4. In the **Bandwidth Package Resources** section, select the resource type and the resource instance to be removed from the bandwidth package. Then click **Removing Resources**.
5. In the pop-up dialog box, click **Confirm Removal**.

Managing Device Bandwidth Packages

Creating a Device Bandwidth Package

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This document describes how to create a device bandwidth package under your bill-by-CVM account.

Note:

Bandwidth Package (BWP) for bill-by-CVM accounts is currently in beta test. If you need to use it, contact your business manager.

Bill-by-IP accounts currently support various [bandwidth package billing modes](#). You can refer to [Checking Account Type](#) for upgrading.

Restrictions

Only a bill-by-CVM account can create a device bandwidth package. To confirm your account type, see [Checking Account Type](#).

Only one device bandwidth package can be activated in a region.

After a device bandwidth package is created in a region, all CVMs and CLBs in the region will be automatically billed by bandwidth package and cannot use another billing mode at the same time. The original monthly subscription fees of bandwidth will be refunded after conversion based on the number of hours actually used.

Directions

1. Log in to the [VPC console](#) and click **Bandwidth Package** on the left sidebar.
2. On the **Bandwidth Package** page, select a region and click **Create** in the upper-left corner.
3. In the **Create Bandwidth Package** dialog box, enter a name, select a billing mode, and click **Create**.
4. (Optional) After the bandwidth package is created, it is recommended to set a bandwidth cap for resources in the bandwidth package. The references are as follows:

For settings of a bandwidth cap for CVMs, see [Adjusting Network Configuration](#).

For settings of a bandwidth cap for CLBs, see [Adjusting Instance Public Network Configurations](#).

Deleting a Device Bandwidth Package

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This document describes how to delete a device bandwidth package under your bill-by-CVM account.

Restrictions

After the device bandwidth package is deleted, all CVMs in this region will switch to bill-by-traffic. The bandwidth caps of these CVMs will be lowered to the [bandwidth cap of bill-by-traffic mode](#), if they're higher.

Directions

1. Log in to the [VPC console](#).
2. Click **Bandwidth Package** on the left sidebar.
3. Select the region, locate the bandwidth package you want to delete, and click **Delete** under its **Operation** column.
4. Click **Confirm** in the pop-up dialog box to confirm the deletion.

Migrating a Bandwidth Package

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This document introduces how to migrate resources across bandwidth packages.

Restrictions

Only bill-by-IP accounts support this feature. Bill-by-CVM accounts need to be upgraded before using this feature. For upgrading details, see [Checking Account Type](#).

AIA BGP bandwidth packages do not support the migration feature. For details about different types of bandwidth packages, see [Bandwidth Package Types](#).

General BGP IP addresses and anti-DDoS EIPs can be migrated only across general BGP bandwidth packages. Dedicated BGP IP addresses can be migrated only across dedicated BGP bandwidth packages. Static single-line EIPs can be migrated only across bandwidth packages with the same ISP, availability zone, and egress.

Directions

1. Log in to the [VPC console](#) and click **Bandwidth Package** on the left sidebar.
2. Select a region in the upper-left corner of the **Bandwidth Package** page and click the target instance ID in the instance list.
3. On the instance details page, select the public IP or CLB resource to be migrated and click **Migrating a Bandwidth Package**.
4. In the pop-up **Migrating a Bandwidth Package** dialog box, select the destination bandwidth package and click **OK**.

Changing Billing Mode

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For monthly pay-as-you-go BGP bandwidth packages, the top 5 billing mode and the existing monthly 95th percentile billing mode can be changed to the pay-as-you-go - enhanced 95th percentile billing mode. This document describes how to change the billing mode.

Note:

Bandwidth packages do not support switching between the monthly pay-as-you-go, daily pay-as-you-go, and prepaid billing modes. If you need to change the billing mode, you can migrate the IP address to a target bandwidth package.

For details, see [Migrating a Bandwidth Package](#).

Only bill-by-IP accounts support the enhanced 95th percentile billing mode.

Prerequisites

Your account has a bandwidth package in the pay-as-you-go - monthly 95th percentile or top 5 billing mode, which can be changed to the pay-as-you-go - enhanced 95th percentile billing mode.

Changing the Billing Mode

1. Log in to the [VPC console](#).
2. On the **BWP** instance list page, locate the target bandwidth package instance. In the right **Operations** column, select **More > Modify Billing Mode**.
3. In the pop-up **Modify Billing Mode** dialog box, select the **Pay-as-you-go - Enhanced 95th Percentile** mode, set the bandwidth cap, and confirm the billing details. Then click **Confirm**.

Note:

By default, the existing monthly 95th percentile billing mode and the top 5 billing mode can be changed only to the enhanced 95th percentile billing mode.

Viewing the Monitoring Data

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The monitoring feature of Bandwidth Package (BWP) can help you observe bandwidth fluctuations in real time through related metrics (such as outbound/inbound bandwidth), to promptly detect exceptions.

Monitoring Metrics

Parameter	Metric	Description	Unit
InPkg	Inbound packets	Inbound packets of a bandwidth package	Packets/sec
InTraffic	Inbound bandwidth	Inbound bandwidth of a bandwidth package	Mbps
OutPkg	Outbound packets	Outbound packets of a bandwidth package	Packets/sec
OutTraffic	Outbound bandwidth	Outbound bandwidth of a bandwidth package	Mbps

For the namespace of a bandwidth package, see [Bandwidth Package Monitoring Metrics](#).

Viewing the Monitoring Data

BWP Console

1. Log in to the [BWP console](#).
2. Select a region at the top of the **BWP** page and click the



icon in the Monitoring column for the target bandwidth package.

3. On the right side of the page, you can view the monitoring data.

Tencent Cloud Observability Platform (TCOP) Console

Log in to the [TCOP console > VPC - BWP](#) to view the monitoring data such as inbound packets and inbound bandwidth of a bandwidth package instance.

Viewing the Billable Bandwidth

Last updated : 2024-12-24 19:03:27

Bandwidth Package - Monthly Pay-as-You-Go

Pay-as-you-go - enhanced 95th percentile billing

On the settlement day, the daily peak bandwidth values are sorted in descending order and the average of the top 5 daily peak values is taken as the monthly peak value. The billable bandwidth is calculated by multiplying the monthly peak value by the number of valid days of the bandwidth package and then dividing the product by the number of days of the billable month. (Note: In the enhanced 95th percentile billing mode, the higher value between the **billable bandwidth** and the **monthly base bandwidth** is used for billing.) It is updated at 00:00:00 every day. For example, if you viewed the monthly billable bandwidth on January 20, 2021, it was calculated based on the daily peak values from January 1, 2021 to January 19, 2021. You can view the current monthly peak value after peak shaving for any bandwidth package in the Bandwidth Package (BWP) console.

Pay-as-you-go - monthly top 5 billing

On the settlement day, the daily peak bandwidth values are sorted in descending order and the average of the top 5 daily peak values is taken as the monthly peak value. The billable bandwidth is calculated by multiplying the monthly peak value by the number of valid days of the bandwidth package and then dividing the product by the number of days of the billable month. It is updated at 00:00:00 every day. For example, if you viewed the monthly billable bandwidth on January 20, 2021, it was calculated based on the daily peak values from January 1, 2021 to January 19, 2021. You can view the current monthly peak value after peak shaving for any bandwidth package in the BWP console.

Bandwidth Package - Daily Pay-as-You-Go

Pay-as-you-go - daily settlement

The actual fees depend on the daily peak. You can view the billable bandwidth of any bandwidth package for the current day in the BWP console.

Pay-as-you-go - bandwidth billing

The actual fees are calculated based on the bandwidth cap set for the day. You can view the billable bandwidth of any bandwidth package for the current day in the BWP console.

Directions

1. Log in to the [VPC console](#) and click **Bandwidth Package** on the left sidebar.
2. Select a region in the upper-left corner of the **Bandwidth Package** page.
3. Click the target **instance ID** in the bandwidth package instance list.
4. View the current billable bandwidth (monthly peak value after peak shaving) on the instance details page.

Reference

[Billing Modes](#)

Downloading Usage Details

Last updated : 2024-12-24 19:03:27

Bandwidth Package provides usage details by project, region, and instance, helping you accurately measure the bandwidth consumption of each project, region, and instance and easily check project costs.

Note:

Only bandwidth packages in the monthly pay-as-you-go billing mode (including monthly top 5 billing, monthly 95th percentile billing, and enhanced 95th percentile billing) support downloading usage details.

Usage Details

Bandwidth package details by project: including the usage, proportions, and total fees of a bandwidth package allocated to different projects in each region.

Note:

Cost allocation by project: refers to the allocation of monthly fees for each bandwidth package based on the proportion of usage by each project in the current month, which is used only for statistics and cost allocation. For usage details of each bandwidth package, see the [5-Minute Details for Each Region](#).

The billable usage of each bandwidth package does not equal the total usage by all projects contained in the package. It cannot be used for reconciliation with the bandwidth package usage in the resource bill.

5-minute details for the bandwidth package of each region

Including the details about the region, bandwidth type, billing mode, billable bandwidth value, bandwidth package ID, and daily 5-minute peak bandwidth.

Bandwidth package details by instance

Including the details about the bandwidth package ID, instance ID, instance name, project, region, and daily peak bandwidth of the instance.

Downloading Usage Details

1. Log in to the [Billing Center](#) and select **Billing Details > Usage Details Download** on the left sidebar.
2. Select the billing month at the top of the **Usage Details Download** page.
3. In the **Select the product report to download (multiple selections are allowed)** list on the left side of the page, select **public network** and click **Downloading Usage Details**.
4. On the **Export Records** page, find the generated file. Then click **Download** in the **Actions** column on the right.

Checking Account Type

Last updated : 2024-12-19 10:00:04

Tencent Cloud accounts include bill-by-IP and bill-by-CVM accounts in the public network attribute. We recommend that you upgrade your bill-by-CVM account to a bill-by-IP account as the former cannot support new features later.

Note :

The upgrade operation is irreversible, meaning it does not support downgrading from bill-by-IP accounts to bill-by-CVM accounts.

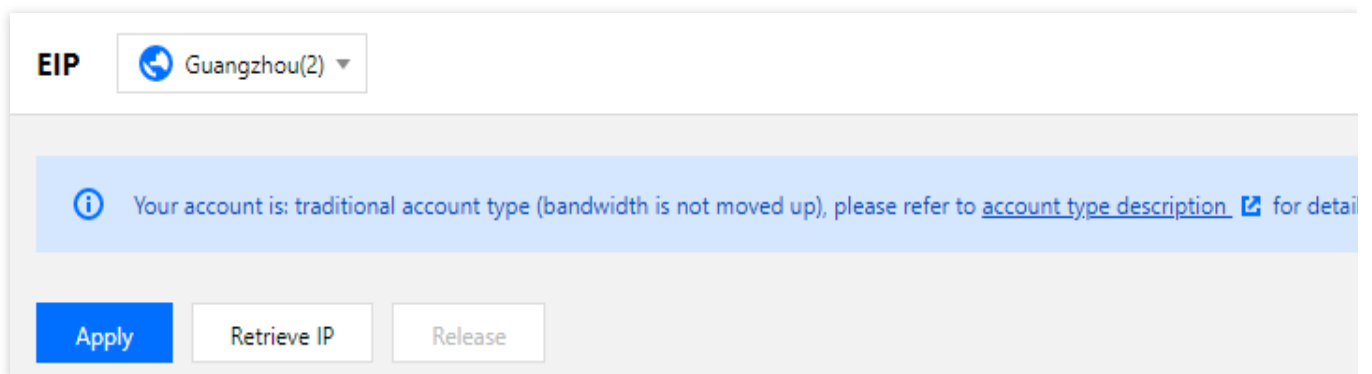
Checking Account Types

All accounts registered after 00:00 on June 17, 2020 are bill-by-IP accounts. However, some newly added account registration channels (such as mini programs, enterprise accounts under an organization account, and international site channel merchant accounts) may have overlooked the registration of bill-by-IP accounts. This issue has been fixed. You may check your account type using the following methods:

Log in to the [Public IP console](#). Check if there is a prompt message at the top of the **Public IP** page.

If no, you have a bill-by-IP account.

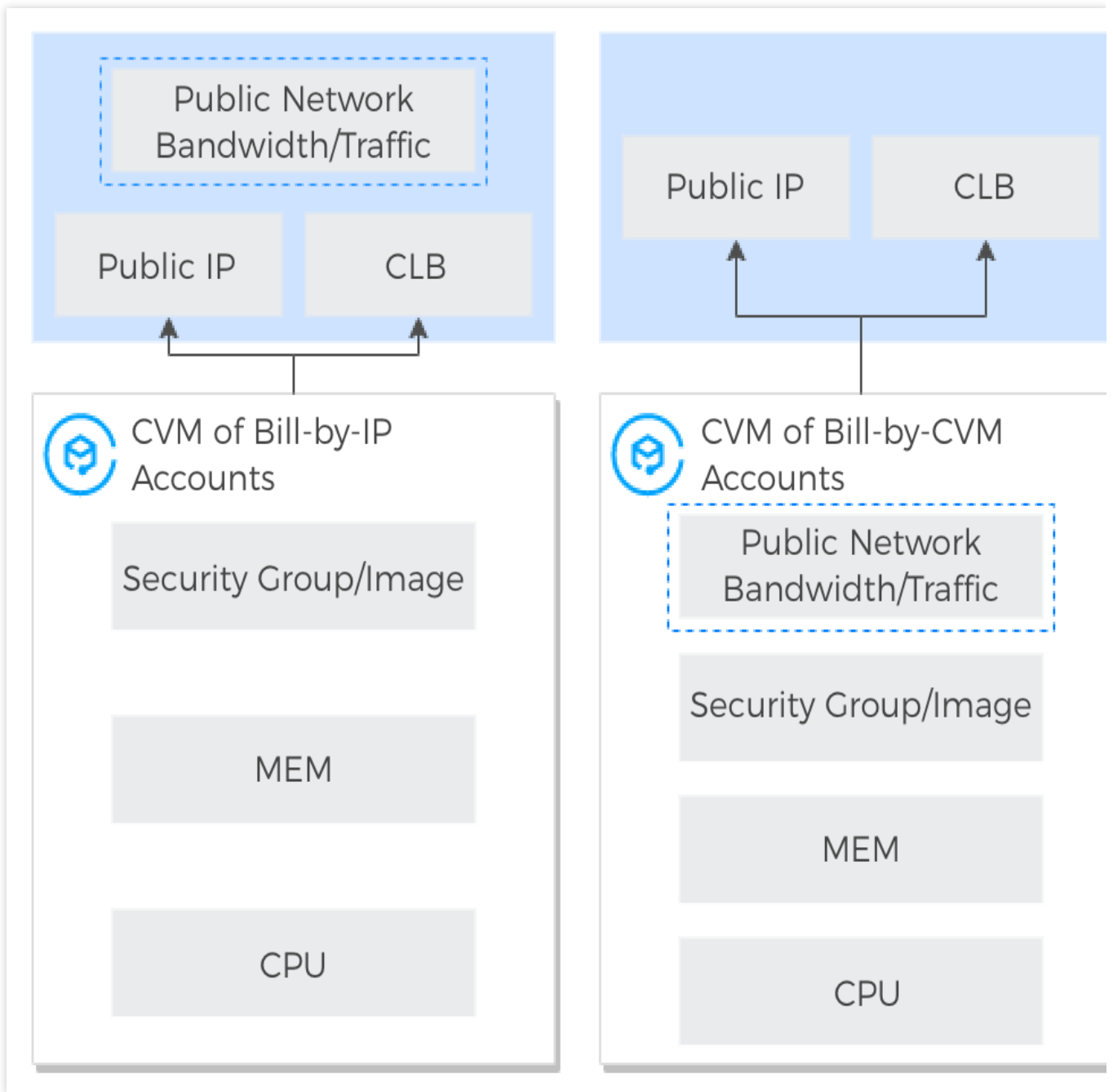
If yes, you have a bill-by-CVM account.



Account Type Difference

Bill-by-IP account: Bandwidth and traffic are managed on IP addresses or Cloud Load Balancers (CLBs). For this type of account, public IP addresses or CLBs have the public network bandwidth and traffic resources, while Cloud Virtual Machine (CVM) does not.

Bill-by-CVM account: Bandwidth and traffic are managed on CVM. For this type of account, public IP addresses and CLBs do not have network bandwidth and traffic attributes, so they need to be purchased and managed on CVM.



Account Upgrade

Advantages

Comparison of advantages between the bill-by-IP account and bill-by-CVM account is shown in the table below:

Item	Bill-by-IP Account	Bill-by-CVM Account
Whether the network bandwidth under the account can be	Network billing is based on IP addresses and the network bandwidth can be migrated to other CVM instances.	Network billing is based on the bound cloud resource instance and the network bandwidth cannot be migrated to other cloud resources.

migrated to other CVM instances		
Elastic IPv6 (EIPv6) billing	IPv6 and IPv4 can be added into the same bandwidth package and billed together.	IPv6 can only be billed separately.
NAT Gateway public network billing	Multiple public network billing modes are supported, such as billing by traffic and billing by bandwidth package.	Only billing by traffic is supported.
Whether you need to purchase a public network for CLB's backend CVM instances	No. You only need to purchase bandwidth for the CLB, which facilitates management.	Yes. You need to purchase a public network for all backend CVM instances of the CLB, which complicates management.
New network-related features	All are supported, such as Premium EIP, Anti-DDoS EIP, CLB Cross-Domain 2.0, and more bandwidth billing modes.	Only the existing features are supported.

Upgrade Impact

Upgrade description

Before the upgrade, the carrier for bandwidth and network billing modes is CVM/NAT. After the upgrade, the carrier for bandwidth and network billing modes is EIP and CLB.

After the upgrade, the bandwidth of CVM refers to the bandwidth of the primary public IP address of the primary Elastic Network Interface (ENI). The network billing mode of CVM refers to the network billing mode of the primary public IP address of the primary ENI.

After the upgrade, bandwidth packages support cost allocation by tag by default. To use it, create a [cost allocation tag](#) and bind it to the EIP or CLB resources in the bandwidth packages.

Impact on network billing

After the upgrade, the public network price remains consistent with that of the bill-by-IP account.

When the network billing mode of the CVM/NAT is billing by traffic: After the upgrade, there will be no impact, and the network billing mode and price will remain unchanged. That is, the public IP addresses on the CVM/NAT will still be billed by traffic.

When the bandwidth billing mode of the CVM is bandwidth package (device bandwidth package) billing: After the upgrade, there will be no impact, and the bandwidth billing mode and price will remain unchanged. That is, the public IP addresses on the CVM or the public network CLB bound to the CVM will continue to use bandwidth package billing, and the associated bandwidth package will not change.

When the bandwidth billing mode of the CVM is not bandwidth package (device bandwidth package) billing: After the upgrade, the public network CLB bound to the CVM will have bandwidth billing capability, and the bandwidth billing

mode will be billing by traffic.

Impact on bandwidth cap

If the public IP address is bound to the CVM, its bandwidth cap after the upgrade is the same as that of the CVM before the upgrade.

If the public IP address is the IP address on the public network CLB, its bandwidth cap after the upgrade will be the maximum bandwidth value of the public IP address over the past month.

If the public IP address is not bound to any resources, the default network billing mode after the upgrade will be billing by traffic. The bandwidth cap will be set according to the following principles:

If only monthly subscription CVM instances exist under the bill-by-CVM account, the bandwidth cap of the public IP address after the upgrade will be 200 Mbps;

If only pay-as-you-go CVM instances exist under the bill-by-CVM account, the bandwidth cap of the public IP address after the upgrade will be 100 Mbps;

If both monthly subscription and pay-as-you-go CVM instances exist under the bill-by-CVM account, the bandwidth cap of the public IP address after the upgrade will be 200 Mbps.

Impact on IP addresses

The account upgrade has no impact on the public or private IP addresses.


Impact on network connection

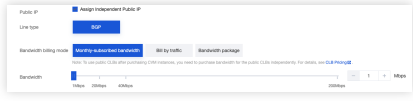
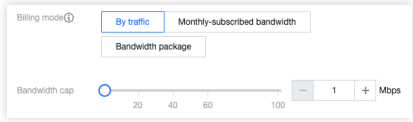
The network will not be interrupted during the upgrade.


Try not to operate resources (such as adjusting, binding and unbinding resources) in the console or using APIs to avoid unexpected operation or failure (failure does not affect account upgrade).

When there are no more than 500 CVM instances, the upgrade takes about 5 minutes. The more CVM instances, the longer the upgrade time will be.

Impact on console and API calls

Business Scenario	Console	API	Difference Between Bill-by-CVM Account
Purchasing CVM (public network bandwidth not needed)	Do not select Assign Independent Public IP: 	When calling the RunInstances API to create a CVM, pay attention to the InternetAccessible parameter: do not input InternetChargeType, and either do not input InternetMaxBandwidthOut or set it to 0.	Before the upgrade, purchasing public network bandwidth for the CVM without the need to assign a public
Purchasing	Select Assign Independent Public IP and set	When calling the RunInstances API	a public

<p>CVM or Auto Scaling (AS) service (public network bandwidth needed)</p>	<p>the bandwidth billing mode and bandwidth value:</p> 	<p>to create a CVM or the CreateLaunchConfiguration API to create AS service, you need to set the InternetAccessible parameter:</p> <p>InternetChargeType: Set the bandwidth billing mode, and when the billing mode is set to <code>BANDWIDTH_PACKAGE</code>, specify the bandwidth package ID in <code>BandwidthPackageId</code>.</p> <p>InternetMaxBandwidthOut: Set the public network bandwidth cap.</p> <p>PublicIpAssigned: Set it to true to assign a public IP address.</p>	<p>address simultan After the upgrade you purch CVM, if network bandwid needed, public IP address be purch and assi at the sa time, and billing m and band cap of th public IP address be set.</p>
<p>Purchasing EIPs</p>	<p>You need to set the billing mode and bandwidth cap:</p> 	<p>When calling the AllocateAddresses API to create an EIP, you need to set bandwidth-related parameters:</p> <p>InternetChargeType: Set the bandwidth billing mode, defaulting to <code>TRAFFIC_POSTPAID_BY_HOUR</code>.</p> <p>InternetMaxBandwidthOut: Set the public network bandwidth cap. If not provided, the default value of 1 Mbps will be used.</p>	<p>Before th upgrade bandwid related paramet available you purch an EIP. After the upgrade need to bandwid billing m and band cap whe purchasi EIP. Note: If is bound NAT Gat ensure th total ban cap of al</p>

			<p>on the N not lowe the band of the N/ Gateway Otherwis may leac packet l due to E exceedir limits an inefficien usage of Gateway bandwid</p>
<p>Purchasing public network CLBs</p>	<p>You need to set the network billing mode and bandwidth cap:</p> 	<p>When calling the CreateLoadBalancer API to create a public network CLB, you need to set the InternetAccessible parameter:</p> <p>InternetChargeType: Set the bandwidth billing mode.</p> <p>InternetMaxBandwidthOut: Set the public network bandwidth cap. If not provided, the default value of 10 Mbps will be used.</p>	<p>Before th upgrade bandwid related paramet available you purc CLB. After the upgrade need to s bandwid billing m and bank cap whe purchasi public ne CLB.</p>
<p>Changing the billing mode of the EIP or CLB billed by traffic to bandwidth package billing after the upgrade</p>	<p>Create a bandwidth package and add the corresponding EIP or CLB resources to the bandwidth package. For detailed directions, see Adding Resources.</p>	<p>Call the AddBandwidthPackageResources API to add resources.</p>	<p>-</p>

Impact on metrics and alarms

After the upgrade, the CVM will no longer have bandwidth management capabilities.

Bandwidth monitoring: You can view bandwidth monitoring on the EIP or CLB. Bandwidth billing is also performed on the EIP or CLB. The bandwidth on the CVM includes the outbound/inbound bandwidth from the EIP on the CVM and the outbound/inbound bandwidth from the CLB bound to the CVM.

Bandwidth alarms: It is recommended to configure bandwidth alarms on the EIP/CLB.

Impact on bandwidth bills

Before the upgrade: You can view the public network bandwidth bills in Bandwidth - Charged by Bandwidth and Bandwidth - Charged by Traffic under the CVM.

After the upgrade, bandwidth is billed on the EIP or CLB. You can view the public network bandwidth bills under the public IP address or CLB, for example:

If the CVM is bound to the public IP address, view the bills in Public IP - Bill by Traffic under the public IP address.

If the CVM is bound to the CLB, view the bills in Public CLB - Traffic under the CLB.

Upgrade Mode

Tencent Cloud will send upgrade notifications in batches to bill-by-CVM accounts. You can also click [Submit a Ticket](#) to upgrade your account.

Note :

Because the CVM billing mode will be changed in some upgrade scenarios, if your CVM is purchased in promotional campaigns and its billing mode cannot be changed according to the campaign rules, your account upgrade is not supported.