

Edge Computing Machine

Purchase Guide

Product Documentation



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Billing Overview

Last updated : 2022-09-22 14:30:27

ECM has two billable items: [computing storage](#) and [network bandwidth](#).

Computing Storage

The computing storage service is billed and settled daily by the daily peak usage.

Calculation cycle

Daily billing: fees for a day are billed and charged in the morning the next day.

Calculation formula

Daily fees = daily peak resource usage * resource unit prices

- **Daily peak resource usage:** maximum usage of resources such as CPU, memory, and storage from 00:00 to 24:00 on a day. Resources you add before midnight every day will be included in the calculation of the daily peak resource usage and increase the total daily fees.

For example, if you create a resource or create and immediately terminate a resource at 23:59:58, both operations will increase the daily fees.

You should pay attention to the time point when you create a resource to avoid losses caused by creating resources too late on a day or maloperations.

- **Resource unit prices:** unit prices of resources such as CPU, memory, and storage of instances on the edge node.

Pricing

Resource Type	Price
CPU (cores)	2 CNY/core/day
Memory (GB)	0.633333 CNY/GB/day
Storage (GB)	0.01167 CNY/GB/day

Pricing examples

At 10:00 on August 1, 2020, a user created two Standard S4 instances with the same configuration on an edge node in Beijing Zone 1 (China Mobile). The instance configuration was as follows:

- Number of CPU cores: 8
- Memory: 16 GB
- System disk storage: 50 GB
- Data disk storage: 300 GB

At 14:00 on August 1, 2020, the user created three Standard SN3ne instances with the same configuration on an edge node in Shanghai Zone 2 (China Unicom). The instance configuration was as follows:

- Number of CPU cores: 4
- Memory: 8 GB
- System disk storage: 50 GB
- Data disk storage: 200 GB

At 22:00 on August 1, 2020, the user terminated an instance in Shanghai Zone 2 (China Unicom).

Therefore, the computing resource usage of the user reached the daily maximum value at 14:00 on that day as detailed below:

- CPU: $8 * 2 + 4 * 3 = 28$ cores
- Memory: $16 * 2 + 8 * 3 = 56$ GB
- Storage: $350 * 2 + 250 * 3 = 1450$ GB

Resource unit prices: 2 CNY/core/day (CPU), 0.63333 CNY/GB/day (memory), and 0.01167 CNY/GB/day (storage).

The daily fees were calculated by the peak usage value of each resource.

The fees incurred by the user on August 1, 2020 were $28 * 2 + 56 * 0.63333 + 1450 * 0.01167 = 108.39$ CNY/day and were charged in the morning the next day.

Network Bandwidth

The network bandwidth service is billed monthly by the 95th percentile of the monthly peak bandwidth counted by the ISP on each edge node.

Calculation cycle

Monthly billing: the fees are charged in the morning the first day of the calendar month immediately after the current billing cycle. For example, the network bandwidth bill in May (between 2020-05-01 00:00:00 and 2020-05-31

23:59:59) is generated on June 1.

Calculation formula

Monthly fees = 95th percentile of monthly peak bandwidth * proportion of valid days * bandwidth unit price of node ISP

- 95th percentile of monthly peak bandwidth:** the average 10-second outbound bandwidth value and inbound bandwidth value of a node are calculated once every 5 minutes, the peak inbound bandwidth value and peak outbound bandwidth value in 5 minutes are taken, and the greater of the two is used as a sample point. During monthly settlement, all sample points collected once every 5 minutes in that month are sorted in descending order, the top 5% of the sample points are removed, and the highest one among the remaining sample points is used as the 95th percentile of monthly peak bandwidth of the node.

For example, you use the network bandwidth service on an edge node for 14 valid days in June. As one sample point is generated every 5 minutes, 288 (60 min * 24 / 5 min) sample points are generated every day, and 4,032 (14 days * 288 sample points/day) sample points are generated in 14 days. The bandwidth values of the 4,032 sample points are sorted in descending order, the top 5% of the sample points (4032 * 0.05 = 201.6 sample points) are removed, and the bandwidth value of the 202nd sample point is taken as the 95th percentile of monthly peak bandwidth.

- Proportion of valid days:** a valid day is a day on which the bandwidth value of at least one sample point is higher than 1 Kbps.

Proportion of valid days: number of valid days / number of days in the billed month.

- Node ISP bandwidth unit price:** it is the bandwidth unit price of the ISP in the node region. The following ISPs are supported: China Telecom, China Unicom, and China Mobile.

Pricing

Region	China Telecom Bandwidth Price	China Unicom Bandwidth Price	China Mobile Bandwidth Price
<ul style="list-style-type: none"> Beijing Shanghai Guangzhou 	40 CNY/Mbps/month	35 CNY/Mbps/month	20 CNY/Mbps/month
Hangzhou	40 CNY/Mbps/month	19 CNY/Mbps/month	14 CNY/Mbps/month
Other regions	21 CNY/Mbps/month	19 CNY/Mbps/month	14 CNY/Mbps/month

Pricing examples

In June 2020 (30 days), a user generated network bandwidth above 1 Kbps for 14 days on a China Telecom node in Beijing, and the 95th percentile of monthly peak bandwidth was 60 Mbps, then in that month:

- Proportion of valid days: $14 / 30 = 0.4667$

- Node ISP bandwidth unit price: 40 CNY/Mbps/month
- China Telecom bandwidth fees in June: $60 * (14/30) * 40 = 1120$ CNY

The system charged the user in the morning on July 1, 2020.

Other Services

When creating an ECM instance, you can choose to activate CWPP and CM free of charge.

- CWPP: you can install the agent to activate CWPP Basic.
- CM: CM supports monitoring, analysis, and alarming for Tencent Cloud services. You can install the agent to get server monitoring metrics.

EIP Billing Description

Last updated : 2022-03-11 18:35:16

An EIP is a public IP address used in an ECM instance. If it is idle, IP resource fees will be charged.

Note

An EIP that is not bound to an edge resource and thus idle will incur IP resource fees. If it is bound to an edge resource and takes effect, it will incur public network fees but not IP resource fees. For more information, see [Billing Overview](#).

Billing

IP resource fees are postpaid hourly, that is, the fees for an hour will be billed and charged in the next hour.

- Billing of the IP resource fees starts when the EIP is applied for, pauses when it is bound to an edge resource, resumes when it is unbound and becomes idle, and stops when it is released.
- Billing won't pause if the EIP is bound to an edge resource in the following status:
 - The EIP is bound to an ENI that is not bound to an instance.
 - The EIP is bound to a high-availability VIP that is not bound to an instance.

Billing Formula

IP resource fees = EIP hourly unit price * billing period

Pricing

Region	Price (CNY/Hour)
Chinese mainland	0.20

Note

To avoid incurring unnecessary IP resource fees, bind your EIP to an edge resource immediately after applying for it and release it immediately after unbinding it from the resource.



Purchase Methods

Last updated : 2022-03-11 18:35:16

This document describes the two purchase methods of ECM: console and API.

Purchasing in Console

After logging in to the ECM console, you can create an ECM module and deploy ECM instances on an edge node to purchase the ECM service.

ECM has two billable items: computing storage and network bandwidth. For more information, see [Billing Overview](#).

You can purchase ECM in the console in the following steps:

1. Log in to the [ECM console](#).
2. Create an ECM module and select parameters such as instance configuration and network bandwidth based on your business needs.
3. Set the password, image, and bandwidth in the ECM module and select an edge node and the number of ECM instances to be deployed.
4. After confirming that the edge node region and number of ECM instances are correct, submit the instance creation order.
5. After you make the payment, the system will deploy ECM instances in the corresponding edge node region according to the order.

Note :

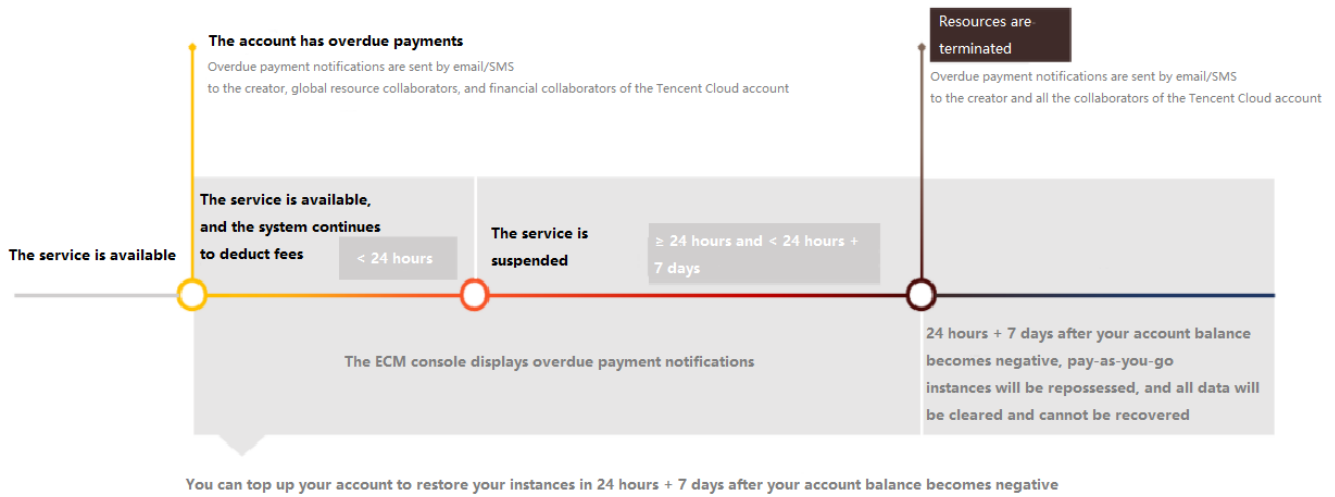
- After ECM instances are created, they will be billed by the resource usage; therefore, ensure that your account balance is sufficient. Insufficient balance may cause overdue payment and instance repossession. For more information, see [Payment Overdue](#).
- You can purchase ECM instances based on your actual needs by referring to [Billing Overview](#).

Purchasing via API

You can purchase ECM through an API as instructed in the API document for instance creation.

Payment Overdue

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Notes

- After you stop using an ECM instance, **terminate it as soon as possible** to avoid incurring fees.
- After an ECM instance is terminated or repossessed, the data will be cleared and cannot be recovered.
- Since your actual resource consumption changes constantly, some slight discrepancies may exist for your stated balance.

Alerts

Alert Type	Description
Overdue payment reminder	Fees for a day will be deducted in the morning the next day. When your account balance becomes negative, your Tencent Cloud account creator, global resource collaborators, and financial collaborators will be notified by email and SMS.
Overdue payment alert	This feature is disabled by default.

Overdue Payment Policy

From the time when your account balance becomes negative, ECM can still be used normally and fees will still be deducted for **24 hours**. After 24 hours, the instance will be automatically shut down, but fees will still be incurred until the instance is terminated.

After automatic shutdown, the system will process ECM as follows:

Time Since Shutdown	Description
≥ 24 hours and < 7 days	<ul style="list-style-type: none"> If your account is topped up to a positive balance, you can start the instance. If your account balance remains negative, the instance cannot be started.
≥ 7 days	If your account is not topped up to a positive balance, your pay-as-you-go resources will be repossessed and released. All data will be deleted and cannot be recovered. When your resources are repossessed, your Tencent Cloud account creator and all collaborators will be notified by email and SMS.

Network Billing by Peak Bandwidth

Alert Type	Description
Balance alert	Network bandwidth consumption tends to fluctuate significantly and is difficult to predict. Therefore, the system does not offer balance alerts.
Overdue payment alert	When your account balance becomes negative, you can still continue using the network service in 24 hours , and fees will still be incurred. After 24 hours, the network service will stop.

Note :

For more information on billing by peak bandwidth, see [Billing Overview](#).

Notes

Last updated : 2022-03-11 18:35:16

Read the following use instructions before purchasing and using ECM.

Edge Node Network

- The average packet loss rate measured by ping between a single edge node and a monitoring node in the same or neighboring province with the same ISP is less than or equal to 1%.
- ISP networks have the risks of interruption or jitter due to exceptions, which is monitored and reported to CM in real time by ECM 24/7. By configuring CM, you can sync the alarm information and stay up to date with the real-time node network status.

Edge Node Resource

- Edge nodes use local disks for storage, which may vary by node.
- A local disk is on a single host, and its data reliability is subject to the reliability of the host, so risks of single points of failures and data loss may exist. If you have high requirements for data reliability, we recommend you implement data redundancy at the application layer for guarantee.

Edge Node SLA

- The service availability (SLA) of ECM is no less than 99.9%.
The duration of service unavailability resulting from any of the following shall not be included in the calculation of service unavailability or indemnity:
Exceptions of networks and devices that don't belong to Tencent Cloud, exceptions caused by system maintenance and upgrade that Tencent Cloud informs the customer of in advance, exceptions caused by the customer, and unavailability caused by force majeure events.
- The local disk and instance reliability is subject to the reliability of the host. If a single point of failure occurs or a single edge node cannot be connected, ECM will help the instance reconnect as soon as possible but will not guarantee data reliability.

Notes on Billing

ECM has two billable items: computing storage and network bandwidth.

- The computing storage service is billed and settled daily by the daily peak usage.

Note :

The daily peak usage is the maximum usage of resources such as CPU, memory, and storage from 00:00 to 24:00 on a day. Resources you add before midnight every day will be included in the calculation of the daily peak resource usage and increase the total daily fees.

For example, if you create a resource or create and immediately terminate a resource at 23:59:58, both operations will increase the daily fees.

You should pay attention to the time point when you create a resource to avoid losses caused by creating resources too late on a day or maloperations.

- The network bandwidth service is billed monthly by the 95th percentile of the monthly peak bandwidth counted by the ISP on each edge node.

For more information on billing, see [Billing Overview](#).