Cloud Container Engine

Billing

 Issue
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HUAWEI CLOUD COMPUTING TECHNOLOGIES CO., LTD.

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Billing Overview

In this document, you will learn about how CCE resources are billed, how you can renew subscriptions and manage costs, and what happens if your account goes into arrears.

• Billing Modes

There are yearly/monthly and pay-per-use billing modes to meet your requirements. For details, see **Overview**.

- Yearly/Monthly: You pay upfront for the amount of time you expect to use the resources for. You will need to make sure you have a top-up account with a sufficient balance or have a valid payment method configured first.
- Pay-per-use: You can start using CCE resources first and then pay as you go.

You can also change the billing mode later if it no longer meets your needs. For details, see **Overview**.

• Billed Items

You will be billed for clusters, nodes, and other cloud service resources. For details about the billing factors and formulas for each billed item, see **Billed Items**.

For more information about the billing examples and the billing for each item, see **Billing Examples**.

• Renewing Subscriptions

If a yearly/monthly cluster is about to expire, but you want to continue using it, you need to renew the subscription within the specified period. Otherwise, the cluster will be automatically released and data may be lost. You can renew your subscription manually or automatically. For details, see **Overview**.

• Viewing Bills

In **Billing Center**, choose **Billing** and check the CCE transactions and bills. For details, see **Bills**.

• Arrears

If there is not a sufficient account balance to pay for your bill and there is no other payment method configured, your account will go into arrears. If you want to continue using your cloud services, you will need to top up your account in a timely manner. For details, see **Arrears**.

• Stopping Billing

If you no longer need to use your cloud service resources, you can unsubscribe from or delete them to stop the billing. For details, see **Billing Termination**.

2 Billed Items

When using the CCE service, you will be billed for clusters and other cloud service resources.

Figure 2-1 Billed CCE items



D NOTE

The billed items marked with asterisks (*) are mandatory.

Billed Item	Description	Billing Mode	Formula
*Cluster	Cluster management. The price varies depending on the region where each cluster is located, the number of master nodes (HA or not), and the maximum number of worker nodes. You do not need to pay for the	Yearly/ Monthly or pay-per-use	Unit price of the cluster flavor x Required duration For details, see CCE Pricing Details.
	management of a hibernated cluster, but the cloud service resources used in the cluster, such as EVS disks, EIPs, and bandwidths will be charged in their own billing modes.		
Other cloud service resources	Cloud service resources that are used in a cluster and created either manually or automatically, such as ECSs, EVS disks, OBS storage, EIPs, and load balancers.	Respective billing modes	None
	Although cloud service resources can be created on the CCE console, their billed items and bills are independent of those of CCE clusters. For details, see Table 2-2 .		

Table 2-1 Billed items

The following table lists the cloud service resources that may be used in a CCE cluster. These resources are billed separately.

Billed Item	Description	Billing Mode	Formula
ECS	ECS flavor: When purchasing a node, ensure that the number of vCPUs is greater than or equal to 2 and the memory is greater than or equal to 4 GiB. Billed by ECS flavor, including vCPUs and memory. Computing and storage capabilities vary by the number of vCPUs and memory size. Most nodes are no longer billed after they are stopped. An ECS with a local disk attached (such as a disk-intensive or ultra- high I/O ECS) will continue to be billed after the ECS is stopped. For details, see ECS Billing.	Yearly/ Monthly or pay-per-use	Unit price of the ECS flavor x Required duration For details, see ECS Pricing Details.

Table 2-2 Billed items	of other cloud service r	ocourcos
Table 2-2 Billed Items	of other cloud service r	esources

Billed Item	Description	Billing Mode	Formula
	EVS disks (including system disks and data disks): When	Yearly/ Monthly or pay-per-use	Unit price of an EVS disk x EVS disk capacity x Required duration
	purchasing a node, you must purchase system disks and data disks.		For details, see EVS Pricing Details .
	 System disk: The default capacity is 50 GiB. You can adjust the capacity as required. 		
	 Data disk: The default capacity is 100 GiB. You can adjust the capacity (no less than 20 GiB). You can also add more data disks as needed. 		
	Billed by EVS disk type and capacity.		
	Regardless of whether you use the disk after purchasing it, you will be charged right away. For details, see EVS Billing .		

Billed Item	Description	Billing Mode	Formula
	 (Optional) EIP: To access the Internet from a node, you need to purchase an EIP. Billed by the EIP and bandwidth or traffic. EIP for a yearly/ monthly node: billed by bandwidth EIP for a pay-peruse node: billed by bandwidth or traffic. You are charged for the EIP no matter if it is not bound to any instance. When you purchase a node on the CCE console, a pay-peruse EIP cannot be added to a shared bandwidth. Go to the EIP console to add it to a shared bandwidth. For details, see EIP Billing. 	Yearly/ Monthly or pay-per-use	 Tiered pricing based on fixed bandwidth. 0 Mbit/s to 5 Mbit/s (included): Bandwidth x Price per Mbit/s of bandwidth less than 5 Mbit/s Greater than 5 Mbit/s: 5 x Price per Mbit/s of bandwidth less than 5 Mbit/s + (Bandwidth = 5) x Price per Mbit/s of bandwidth more than 5 Mbit/s By traffic: EIP traffic x Unit price For details, see EIP Pricing Details.

Billed Item	Description	Billing Mode	Formula
ELB	Used by the Services and Ingresses created in a cluster. A load balancer automatically created on the CCE console is billed on the pay-per- use basis only.	Yearly/ Monthly or pay-per-use	 Shared load balancer: Unit price x Required duration + EIP Dedicated load balancer: Number of AZs x Unit price x Required duration + EIP
	 Billed by: Shared load balancer: load balancer, and EIP (billed by bandwidth or traffic) Dedicated load balancer: the number of AZs, load balancer, and EIP (billed by bandwidth or traffic) For details, see ELB Billing. 		For details, see ELB Pricing Details.
NAT Gateway	NAT gateways cannot be automatically created on the CCE console. Buy them on the NAT Gateway console. Billed by instance. For details, see NAT Gateway Billing.	Yearly/ Monthly or pay-per-use	Unit price x Required duration For details, see NAT Gateway Pricing Details.

Billed Item	Description	Billing Mode	Formula
EVS	Mounted to the workloads in a cluster. An EVS disk automatically created on the CCE console is billed on the pay-per- use basis only. Billed by EVS disk type and capacity. Regardless of whether you use the disk after purchasing it, you will be charged right away. For details, see EVS Billing.	Yearly/ Monthly or pay-per-use	Unit price x Purchase duration For details, see EVS Pricing Details.
OBS	Mounted to the workloads in a cluster. A parallel file system is recommended. OBS storage automatically created on the CCE console is billed on the pay-per-use basis only. Billed by storage space, requests, traffic (free for intranet traffic), and data retrievals (only for Archive storage). For details, see OBS Billing.	Yearly/ Monthly (resource packages) and pay-per- use	Storage unit price x Storage space x Required duration + Traffic request unit price x Number of requests + Unit price of outbound Internet traffic (by time) x Outbound Internet traffic volume+ Data retrieval unit price (by retrieval speed) x Data retrieved For details, see OBS Pricing Details.
Scalable File Service (SFS)	Mounted to the workloads in a cluster. An SFS system automatically created on the CCE console is billed on the pay-per- use basis only. Billed by storage space. For details, see SFS Billing.	Yearly/ Monthly or pay-per-use	Storage unit price x Storage space x Required duration For details, see SFS Pricing Details.

Billed Item	Description	Billing Mode	Formula
SFS Turbo	Mounted to the workloads in a cluster. SFS Turbo systems cannot be automatically created on the CCE console. Manually create them on the SFS Turbo console.	Yearly/ Monthly or pay-per-use	Storage unit price x Storage space x Required duration + Bandwidth (only for HPC-cached SFS Turbo systems) x Required duration For details, see SFS Pricing Details.
	Billed by storage space and bandwidth (only for HPC-cached SFS Turbo systems). For details, see SFS		

3 Billing Modes

3.1 Overview

There are yearly/monthly and pay-per-use billing modes to meet your requirements.

- Yearly/Monthly is a prepaid billing. You pay in advance for a subscription term, and in exchange, you get a discounted rate. The longer the subscription term, the bigger the discount. Yearly/Monthly billing is a good option for long-term, stable services.
- Pay-per-use is a postpaid billing. You pay as you go and just pay for what you use. The usage is calculated by the second but billed every hour. This mode allows you to flexibly adjust resource usage. You neither need to prepare for resources in advance, nor end up with excessive or insufficient preset resources. Pay-per-use billing is a good option for scenarios where there are sudden traffic bursts, such as e-commerce promotions.

You can select different billing modes for your clusters or nodes on the CCE console. You can, for example, select pay-per-use for your nodes running in a cluster which is billed on the yearly/monthly basis.

However, on the CCE console, the related **cloud service resources** cannot be billed on the yearly/monthly mode. These resources are billed on the pay-per-use mode by default when they are automatically created in the CCE cluster. To purchase yearly/monthly cloud service resources, go to their respective consoles. For details, see their billing descriptions.

Billing Mode	Yearly/Monthly	Pay-per-use
Payment	Prepaid Billed by the subscription term you purchase	Postpaid Calculated by the second but billed every hour
Billed Usage Period	Billed by the subscription term you purchase	Calculated by the second but billed every hour

Table 3-1	Cluster	billing	mode
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Billing for a Hibernated Cluster	A cluster billed in yearly/ monthly mode cannot be hibernated.	You do not need to pay for the management of a hibernated cluster, but the cloud services used in the cluster, such as EVS disks, EIPs, and bandwidths will be charged in their own billing modes like yearly/monthly or pay-per-use. NOTE In a hibernated cluster, the worker nodes (ECSs) will not be stopped. To stop all nodes, select Shut down all nodes in the cluster . You can also stop a node on the ECS console after hibernating a cluster. For details, see Stopping a Node . Most nodes are no longer billed after they are stopped, excluding certain types of ECSs with a local disk attached (such as a disk- intensive or ultra-high I/O ECS). For details, see ECS Billing .
Changing the Billing Mode	Yearly/Monthly can be changed to pay-per-use only after the yearly/monthly subscription expires.	Pay-per-use can be changed to yearly/monthly.
Modifying Specification s	Supported	Supported
Application Scenarios	A cost-effective option for scenarios where the resource usage duration is predictable. Recommended for resources expected to be used for a long-term.	Recommended when the resource demands are likely to fluctuate and you want more flexibility.

3.2 Yearly/Monthly Billing

If you expect to use resources for a longer period, you can save money by selecting yearly/monthly billing. You can pre-purchase cloud service resources at discounted prices. This section describes the billing rules for purchasing yearly/ monthly resources on the CCE console.

Application Scenarios

If you want to ensure resource stability over a certain period of time, yearly/ monthly billing is a good choice for the following types of workloads:

- Long-term workloads with stable resource requirements, such as official websites, online malls, and blogs.
- Long-term projects, such as scientific research projects and large-scale events.
- Workloads with high data security requirements

Billed Items

When using CCE service, you can select a billing mode (the yearly/monthly mode or the pay-per-use mode) for items listed in **Table 3-2**. On the CCE console, the related **cloud service resources** cannot be purchased on the yearly/monthly basis. To purchase yearly/monthly cloud service resources, go to their respective consoles. For details, see their billing descriptions.

Billed Item	Resource Type	Description
Cluster	N/A	A cluster is billed on a yearly/monthly basis based on the cluster scale and HA mode.
ECS	ECS flavor	vCPUs and memory are billed on a yearly/ monthly basis.
	EVS disk	If an EVS disk (a system disk or a data disk) is created along with a yearly/monthly ECS, the EVS disk is also billed on a yearly/monthly basis.
	EIP	Only EIPs billed by bandwidth can be bound to yearly/monthly ECSs created on the CCE console. If you want an EIP billed by traffic or added to a shared bandwidth, purchase one on the EIP console and bind it to an ECS.
		If an EIP billed by bandwidth is purchased along with a yearly/monthly ECS, the bandwidth is also billed on a yearly/monthly basis.

Table 3-2 Items billed on a yearly/monthly basis

Billed Usage Period

A yearly/monthly CCE resource is billed for the purchased duration (GMT+08:00). The billing starts from when you activated or renewed the subscription, and ends at 23:59:59 of the expiry date.

For example, if you purchase a one-month CCE cluster on March 08, 2023, 15:50:04, the billed usage period is from March 08, 2023, 15:50:04 to April 08, 2023, 23:59:59.

Impact of Expiration

Figure 3-1 shows the statuses a yearly/monthly resource can go through throughout its lifecycle. After a CCE resource is purchased, it enters the valid

period and runs normally during this period. If it is not renewed after it expires, before being deleted, it first enters a grace period and then a retention period.





Expiration Reminder

The system will send you a reminder (by email, SMS, or in-app message) 7 days before a yearly/monthly resource expires to remind you to renew the subscription.

Impact of Expiration

If the yearly/monthly resource is not renewed after it expires, it changes to the **Expired** state and enters a grace period. During the grace period, you can still access the resource.

If it is not renewed after the grace period ends, its status turns to **Frozen** and it enters a retention period. You cannot perform any operations on the resource while it is in the retention period.

If it is not renewed after the retention period expires, other resources (such as EVS disks and EIPs) contained in the resource will be released and data cannot be restored.

NOTE

- Once a yearly/monthly subscription has expired or a pay-per-use resource becomes in arrears, Huawei Cloud provides a period of time during which you can renew or top up your accounts. For details, see What Is a Grace Period of Huawei Cloud? How Long Is It? What Is a Retention Period of Huawei Cloud? How Long Is It?
- For details about renewal, see **Overview**.

3.3 Pay-per-Use Billing

Pay-per-use is a postpaid billing mode. If you expect to use resources flexibly, this billing mode is suitable for you. This section describes the billing rules for pay-per-use CCE resources.

Application Scenarios

Pay-per-use billing is good for short-term, bursty, or unpredictable workloads, such as applications for e-commerce flash sales, temporary testing, and scientific computing.

Billed Items

When using the CCE service, you can select a billing mode for items listed in **Table 3-3** on the CCE console. The **related cloud service resources** automatically

created on the CCE console are billed on a pay-per-use basis by default. For details, see their respective billing descriptions.

Billed Item	Resource Type	Description
Cluster	N/A	A cluster is billed on a pay-per-use basis based on the cluster scale and HA mode.
ECS	ECS flavor	vCPUs and memory are billed on a pay-per-use basis.
	EVS disk	If an EVS disk (a system disk or a data disk) is created along with a pay-per-use ECS, the EVS disk is also billed on a pay-per-use basis.
	EIP	An EIP billed by bandwidth or traffic can be bound to a pay-per-use ECS created on the CCE console, but cannot be added to a shared bandwidth on the CCE console. If you want to add an EIP to a shared bandwidth, purchase one on the EIP console and then bind it to the ECS. If an EIP billed by bandwidth is purchased along with a pay-per-use ECS, the bandwidth is also billed on a pay-per-use basis.

Table 3-3 Items b	oilled on a	pay-per-use	basis
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Billed Usage Period

A pay-per-use CCE resource is calculated by the second and billed every hour (GMT+08:00). Once settlement is complete, it enters a new billed usage period. The billing starts when a cluster or node is launched and ends when the cluster or node is deleted.

NOTE

It takes a certain time to launch a CCE cluster or node. The billing starts from the time when the cluster or node is successfully created. You can view the time in **Operation Records** on the CCE console.

For example, if you purchased a pay-per-use CCE cluster at 08:45:30 and deleted it at 08:55:30, you are billed for the 600 seconds from 08:45:30 to 08:55:30.

Impact of Arrears

Figure 3-2 shows the statuses a pay-per-use resource can have throughout its lifecycle. After a resource is purchased, it enters the valid period and runs normally during this period. If your account goes into arrears, it enters a grace period and then a retention period.



Figure 3-2 Lifecycle of a pay-per-use CCE resource

Arrears Reminder

You will be billed for pay-per-use resource after each billed usage period ends. If your account goes into arrears, we will notify you by email, SMS, or in-app message.

Impacts of Arrears

If there is no top-up account with sufficient balance and no other payment method configured to pay for the resource used, your account goes into arrears, and the resource enters the grace period. You are still responsible for expenditures generated during the grace period. You can view the charges on the **Billing Center** > **Overview** page and pay any past due balance as needed.

If you do not bring your account balance current before the grace period expires, the resource turns to **Frozen** and enters a retention period. You cannot perform any operations on a pay-per-use resource in the **Frozen** status.

After the retention period ends, CCE clusters and resources like nodes, EVS disks, and EIPs will be released and cannot be restored.

NOTE

- Once a yearly/monthly subscription has expired or a pay-per-use resource becomes in arrears, Huawei Cloud provides a period of time during which you can renew or top up your accounts. For details, see What Is a Grace Period of Huawei Cloud? How Long Is It? What Is a Retention Period of Huawei Cloud? How Long Is It?
- For details about top-up, see **Topping Up an Account**.

Billing for a Hibernated Cluster

Generally, after a pay-per-use CCE cluster is hibernated:

- You will not be billed for the management of the cluster, but other cloud service resources like EVS disks and bandwidth in the cluster will still be billed in their own billing modes.
- ECSs in the cluster will not stop automatically. To stop all the nodes, select Shut down all nodes in the cluster. You can also stop a node on the ECS console. For details, see Stopping a Node. For details about the billing policies after the nodes are stopped, see Billing Policies for a Stopped Node.
- Resources on the master nodes will be released. If computing resources are insufficient, the subsequent cluster wakeup may fail.

For example, if you purchased a pay-per-use cluster with 50 worker nodes at 09:00:00 and hibernated it at 09:30:00, you are billed for the 30 minutes from 09:00:00 to 09:30:00 within the billed usage period from 09:00:00 to 10:00:00.

Billing Policies for a Stopped Node

Generally, after a pay-per-use node is stopped:

- Basic resources (vCPUs and memory) will not be billed.
- Other resources (EVS disks and bandwidth) used by the node are still charged.
- Basic resources (vCPUs and memory) will be released, so ECS startup may fail. Wait a moment and try again.
- Basic resources (vCPUs and memory) of ECSs created on a DeH or in an edge AZ will be retained.

If a local disk is attached to an ECS (such as a disk-intensive ECS or an ultra-high I/O ECS), basic resources (vCPUs, memory, and images) and other resources (EVS disks and bandwidth) are still billed after the ECS is stopped. To avoid any additional expenditures, delete the ECS and all its resources.

4Billing Examples

Billing Scenario

A user purchased a pay-per-use CCE cluster for migrating data to the cloud. The following table lists the resources and configuration of the cluster.

Resou rce Type	Billing Start Time	Original Billing Mode	Original Configuration	Quantit y
Cluster	March 18, 2023, 15:30:00	Pay-per-use	 Region: CN-Hong Kong Cluster scale: 50 worker nodes HA mode 	1
ECS	March 18, 2023, 15:40:00	Pay-per-use	 Region: CN-Hong Kong Specifications: c7.large.2 2 vCPUs 4 GiB System disk: General Purpose SSD 50 GiB Data disk: General Purpose SSD 100 GiB EIP bandwidth: 6 Mbit/s, billed by bandwidth 	1
Load balanc er	March 19, 2023, 09:20:00	Pay-per-use	 Region: CN-Hong Kong Type: Dedicated load balancer AZ: single AZ Specifications: network load balancing (TCP/UDP), small I (10 LCUs) EIP bandwidth: 5 Mbit/s, billed by traffic 	1

Table 4-1 Original resources and configuration

After a period of time, the user found that the current specifications no longer met service requirements and updated the specifications.

Figure 4-1 Example



- 1. The user hibernated the cluster and stopped the node in the cluster at 17:30:00 on March 18, 2023.
- 2. At 08:30:00 on March 19, 2023, the user woke up the cluster and started the node.
- 3. When deploying services in the cluster, the user used a load balancer automatically created at 09:20:00 on March 19, 2023.
- 4. At 09:40:00 on March 19, 2023, the user expanded the existing node flavor to c7.xlarge.2 (4 vCPUs, 8 GiB) due to insufficient resources.
- 5. After the test, the automatically created load balancer was deleted at 10:20:00 on March 20, 2023 because it was no longer used. During the deletion, 5 GB public network traffic was generated.
- 6. After the verification, the user planned to migrate services to CCE and predicted that the cluster scale would be 50 to 200 worker nodes. Therefore, the user changed the cluster scale to 200 worker nodes at 10:30:00 on March 20, 2023.
- 7. The user changed the billing mode of the cluster to yearly/monthly at 11:00:00 on March 20, 2023 for a long-term use of this cluster. The validity period was one month, and the cluster expired at 23:59:59 on April 20, 2023.
- 8. The billing mode of the node in the cluster also changed to yearly/monthly at 11:10:00 on March 20, 2023. The subscription duration was one month, and the node expired at 23:59:59 on April 20, 2023.

The price can be analyzed based on resource types as follows:

- Billing Analysis of a Cluster
- Billing Analysis of a Node
- Billing Analysis of a Load Balancer

Billing Analysis of a Cluster

Rased on the	usade nhase	of the cluster	the hilling	for each	nhase is as	follows
based on the	usaye phase	of the cluster,	the bitting	IUI Each	phase is as	10110105.

Usage Period	Billing Mode	Required Duration	Configurat ion	Unit price	Price*
March 18, 2023, 15:30:00 to March 18, 2023, 17:30:00	Pay-per-use	2 hours	 Region: CN- Hong Kong Cluster scale: 50 worker nodes HA mode 	\$0.54 USD/ hour	2 x 0.54 = \$1.08 USD
March 18, 2023, 17:30:00 to March 19, 2023, 8:30:00	Pay-per-use	0 hours (Bills will not be generated for the managem ent of a hibernated cluster.)	 Region: CN- Hong Kong Cluster scale: 50 worker nodes HA mode 	\$0.54 USD/ hour	\$0 USD
March 19, 2023, 08:30:00 to March 20, 2023, 10:30:00	Pay-per-use	26 hours	 Region: CN- Hong Kong Cluster scale: 50 worker nodes HA mode 	\$0.54 USD/ hour	26 x 0.54 = \$14.04 USD
March 20, 2023, 10:30:00 to March 20, 2023, 11:00:00	Pay-per-use	0.5 hour	 Region: CN- Hong Kong Cluster scale: 200 worker nodes HA mode 	\$1.05 USD/ hour	0.5 x 1.05 = \$0.52 USD

Usage Period	Billing Mode	Required Duration	Configurat ion	Unit price	Price*
March 20, 2023, 11:00:00 to April 20, 2023, 23:59:59	Yearly/ Monthly	One month	 Region: CN- Hong Kong Cluster scale: 200 worker nodes HA mode 	\$551.46 USD/ month	\$551.46 USD

NOTE

*In pay-per-use billing mode, the amount due is truncated to the 2nd decimal place. This amount may vary depending on the actual bill.

The total price of the cluster is 1.08 + 14.04 + 0.52 + 551.46 = \$567.10 USD.

Billing Analysis of a Node

Based on the usage phase of the nodes, the billing for each phase is as follows:

Usage Period	Billing Mode	Require d Duratio n	Configuration	Unit price	Price*
March 18, 2023, 15:40:00 to March 18, 2023, 17:30:00	Pay-per- use	1 hour and 50 minutes	 Region: CN-Hong Kong Specifications: c7.large.2 2 vCPUs 4 GiB System disk: General Purpose SSD 50 GiB Data disk: General Purpose SSD 100 GiB EIP bandwidth: 6 Mbit/s, billed by bandwidth 	 Specifica tions: \$0.0976 USD/ hour EVS disk: \$0.0375 USD/ hour EIP bandwid th: \$0.084 USD/ hour 	 Specific ations: 1.83 x 0.0976 = \$0.17 USD EVS disk: 1.83 x 0.0375 = \$0.06 USD EIP bandwid th: 1.83 x 0.084 = \$0.15 USD Total: \$0.38 USD
March 18, 2023, 17:30:00 to March 19, 2023, 08:30:00	Pay-per- use	16 hours (The node is stopped.)	 Region: CN- Hong Kong Specifications: c7.large.2 2 vCPUs 4 GiB System disk: General Purpose SSD 50 GiB Data disk: General Purpose SSD 100 GiB EIP bandwidth: 6 Mbit/s, billed by bandwidth 	 Specifica tions: \$0 USD/ hour (Bills will not be generate d for the stopped nodes.) EVS disk: \$0.0375 USD/ hour EIP bandwid th: \$0.084 USD/ hour 	 Specific ations: \$0 USD EVS disk: 16 x 0.0375 = \$0.60 USD EIP bandwid th: 16 x 0.084 = \$1.34 USD Total: \$1.94 USD

Usage Period	Billing Mode	Require d Duratio n	Configuration	Unit price	Price*
March 19, 2023, 08:30:00 to March 19, 2023, 09:40:00	Pay-per- use	1 hour and 10 minutes	 Region: CN-Hong Kong Specifications: c7.large.2 2 vCPUs 4 GiB System disk: General Purpose SSD 50 GiB Data disk: General Purpose SSD 100 GiB EIP bandwidth: 6 Mbit/s, billed by bandwidth 	 Specifica tions: \$0.0976 USD/ hour EVS disk: \$0.0375 USD/ hour EIP bandwid th: \$0.084 USD/ hour 	 Specific ations: 1.17 x 0.0976 = \$0.11 USD EVS disk: 1.17 x 0.0375 = \$0.04 USD EIP bandwid th: 1.17 x 0.084 = \$0.09 USD Total: \$0.24 USD
March 19, 2023, 09:40:00 to March 20, 2023, 11:10:00	Pay-per- use	25 hours and 30 minutes	 Region: CN- Hong Kong Specifications: c7.xlarge.2 4 vCPUs 8 GiB System disk: General Purpose SSD 50 GiB Data disk: General Purpose SSD 100 GiB EIP bandwidth: 6 Mbit/s, billed by bandwidth 	 Specifica tions: \$0.1952 USD/ hour EVS disk: \$0.0375 USD/ hour EIP bandwid th: \$0.084 USD/ hour 	 Specific ations: 25.5 x 0.1952 = \$4.97 USD EVS disk: 25.5 x 0.0375 = \$0.95 USD EIP bandwid th: 25.5 x 0.084 = \$2.14 USD Total: \$8.06 USD

Usage Period	Billing Mode	Require d Duratio n	Configuration	Unit price	Price*
March 20, 2023, 11:10:00 to April 20, 2023, 23:59:59	Yearly/ Monthly	One month	 Region: CN- Hong Kong Specifications: c7.xlarge.2 4 vCPUs 8 GiB System disk: General Purpose SSD 50 GiB Data disk: General Purpose SSD 100 GiB EIP bandwidth: 6 Mbit/s, billed by bandwidth 	 Specifica tions: \$102.60 USD/ month EVS disk: \$19.80 USD/ month EIP bandwid th: \$40.50 USD/ month 	Total: \$162.90 USD

D NOTE

*In pay-per-use billing mode, the amount due is truncated to the 2nd decimal place. This amount may vary depending on the actual bill.

The total price of the node is 0.38 + 1.94 + 0.24 + 8.06 + 162.90 = \$173.52 USD.

Billing Analysis of a Load Balancer

Based on the use phase of the load balancer, the billing is as follows.

Usage Period	Billing Mode	Billing Factor	Configuration	Unit price	Price*
March 19, 2023, 09:20:00 to March 20, 2023, 10:20:00	Pay-per- use	25 hours, 5 GB public network traffic	 Region: CN- Hong Kong Type: Dedicated load balancer AZ: single AZ Specifications: network load balancing (TCP/ UDP), small I (10 LCUs) EIP bandwidth: 5 Mbit/s, billed by traffic 	 Insta nce price: \$0.69 USD/ hour Public netw ork traffic price: \$0.15 3 USD/ GB 	 Instance price: 25 x 0.0695 = \$1.73 USD Public network traffic price: 5 x 0.153 = \$0.76 USD Total: \$2.49 USD

NOTE

*In pay-per-use billing mode, the amount due is truncated to the 2nd decimal place. This amount may vary depending on the actual bill.

The total price for the load balancer is \$2.49 USD.

5 Modifying Resource Specifications

If a yearly/monthly resource no longer meets your needs, you can modify the specifications.

- **Modifying cluster specifications**: You can modify the cluster specifications on the CCE console. During the modification, the price is calculated based on the following rules:
 - If you upgrade the cluster specifications, you need to pay the difference in price.
 - Downgrading cluster specifications is not supported.
- **Modifying node specifications**: The specifications can only be modified on the ECS console. After the modification, go to the CCE console and **synchronize data with cloud servers**. The system will recalculate the price and either bill or refund you the difference.
 - If you upgrade your node specifications, you need to pay the difference in price.
 - If you downgrade your node specifications, Huawei Cloud will refund you the difference.

You are not advised to downgrade your ECS to a lower specification because ECS performance may be affected.

Modifying the Specifications of a Yearly/Monthly Resource

When you modify the specifications, the price is calculated as follows:

Specifications modification price = (Price of the new specifications - Price of the original specifications) x Remaining period

The remaining period is the remaining days of each calendar month divided by the maximum number of days in each calendar month.

Suppose you purchased a yearly/monthly cluster with 50 worker nodes and three master nodes on April 8, 2023 without any discount and upgraded the cluster scale to 200 worker nodes on April 18, 2023. The price of the original specifications is \$285.66 USD/month, and the price of the new specifications is \$551.46 USD/month.

In this example, the number of remaining days in the original order totals 20. The number of remaining days in April are 12 and those in May are 8. The remaining period is calculated as follows:

Remaining period = 12 (Remaining days in April)/30 (Maximum number of days in April) + 8 (Remaining days in May)/31 (Maximum number of days in May) = 0.6581

Specifications modification price = (551.46 - 285.66) x 0.6581 = \$174.92 USD

If other yearly/monthly cloud service resources are used in your clusters, modify the specifications on their respective consoles. For more details, see **Pricing of a Changed Specification**.

Modifying the Specifications of a Pay-per-Use Resource

If you purchased a pay-per-use cluster and then modified its specifications, a new order will be generated. The old order automatically becomes invalid.

If you modified the specifications within a given hour, multiple records will be generated. Different bills record the billing for different specifications.

For example, if you purchased a pay-per-use cluster with 50 worker nodes at 09:00:00 and upgraded the scale to 200 worker nodes at 09:30:00, two records will be generated from 09:00:00 to 10:00:00.

- 09:00:00 to 09:30:00. You are billed for 50 worker nodes.
- 09:30:00 to 10:00:00. You are billed for 200 worker nodes.

6 Billing Mode Changes

6.1 Overview

You can change the billing mode later if it no longer meets your needs.

- Pay-per-use: On the CCE console, you can change the billing mode of clusters and nodes from pay-per-use to yearly/monthly, as shown in Table 6-1.
- Yearly/Monthly: Yearly/monthly clusters and nodes can be changed to payper-use ones only after they expire. For details, see Yearly/Monthly to Payper-Use. Yearly/Monthly resources cannot be deleted after being created. To stop using them, go to Billing Center and unsubscribe from them.

You can change the billing modes of other cloud service resources on their respective consoles. For details, see their billing descriptions.

NOTICE

The billing modes of nodes cannot be changed on the ECS console.

Billed Item	Change Description
Cluster	When changing the billing mode of a cluster, pay-per-use nodes in the cluster can be changed to yearly/monthly nodes.
ECS	ECS flavor
	When changing the billing mode of a node, the billing mode of resources like computing resources (vCPUs and memory) and system disk will also be changed. You can change the billing mode from pay-per-use to yearly/ monthly to get a price discount.

Table 6-1 Changeable CCE billed items

Billed Item	Change Description
	EVS disks (including system disks and data disks)
	The billing mode of the system disks and data disks attached to a node cannot be changed on the EVS console. You need to change their billing modes together with the node on the CCE console.
	EIP
	When you change the billing mode of a node to yearly/ monthly on the CCE console, the EIP's billing mode will also be changed to yearly/monthly. If the billing mode of the EIP bound to a node cannot be changed to yearly/ monthly, changing the billing mode of the node will not change that of the EIP. You need to change the billing mode of the EIP on the EIP console.
	The rules for changing the EIP billing mode are as follows:
	• A yearly/monthly EIP can be changed to a pay-per-use EIP billed by bandwidth after the yearly/monthly subscription ends.
	• A pay-per-use EIP billed by bandwidth can be changed to a yearly/monthly EIP.
	• Pay-per-use EIPs billed by bandwidth can be changed to pay-per-use EIPs billed by traffic, and pay-per-use EIPs billed by traffic can be changed to pay-per-use EIPs billed by bandwidth.

Figure 6-1 EIP billing mode change



1: The change takes effect immediately.

2: The change takes effect only after the yearly/monthly subscription period expires.

x: The billing mode cannot be changed.

6.2 Pay-per-Use to Yearly/Monthly

If you have a pay-per-use CCE cluster or node that you expect to use for a long time, you can change it to yearly/monthly billing to reduce costs. Doing so will create an order. After you pay for the order, yearly/monthly billing will be applied immediately.

Suppose you purchased a pay-per-use cluster at 15:29:16 on April 18, 2023 and changed it to yearly/monthly billing at 16:30:30 on the same day. An order was

created. After you paid for the order, yearly/monthly billing was applied immediately. In **Billing Center**, on the **Billing** page, three line items were generated as follows:

- Pay-per-use expenditures for 15:29:16 to 16:00:00 on April 18, 2023
- Pay-per-use expenditures for 16:00:00 to 16:30:30 on April 18, 2023
- A single, yearly/monthly expenditure generated on April 18, 2023, 16:30:30

Constraints

- A pay-per-use node cannot be changed to a yearly/monthly one on the ECS console.
- Only nodes in the default node pool can be changed to the yearly/monthly billing mode.
- Nodes whose billing mode is changed to yearly/monthly do not support auto scaling.

Changing the Billing Mode of a Cluster

To change the billing mode of a cluster from pay-per-use to yearly/monthly, perform the following steps:

- **Step 1** Log in to the CCE console. In the navigation pane, choose **Clusters**.
- **Step 2** Locate the target cluster, and click **Change Billing Mode** in the upper right corner.
- **Step 3** On the **Change Billing Mode** page, select the target cluster. You can also select the nodes whose billing mode you want to change.

Figure 6-2 Changing the billing mode of a cluster to yearly/monthly

\checkmark	ange entire cluster to yearly/monthly billing mode Applies to the master node and all resources (such as EVS disks and elastic IP addresses) in the selected cluster.								
	Cluster Name	Cluster Specifications	Status	V	ersion				
	cce-373896-2	50 nodes	S Available	v	1.19.10-r0				
	Node change to period Applies to the user nodes and a	l auxiliary resources (such as	EVS disks and elastic IP addresses) in	the selected cluster. Support up to	• 40 user node change to period at	a time			
	Chosen 2 / 2 nodes			Node Name 🔻	Q	c			
	Node Name	Node Status	Specifications	Private IP Address	AZ				
	✓ cce-373896-2-80263	Available	8vCPUs 16GB c6s.2xlarge.2	192.168.0.181	AZ1				
	✓ cce-373896-2-05684	Available	8vCPUs 16GB c6s.2xlarge.2	192.168.0.242	AZ1				

Step 4 Click **OK**. Wait until the order is processed and the payment is complete.

----End

Changing the Billing Mode of a Node

NOTICE

The billing modes of resources like EVS disks and EIPs used by pay-per-use nodes cannot be changed simultaneously. For details, see **Changing the Billing Mode of an ECS from Pay-per-Use to Yearly/Monthly**.

To change the billing mode of a pay-per-use node to yearly/monthly, perform the following steps:

- **Step 1** Log in to the CCE console and click the cluster name to access the cluster console.
- Step 2 In the navigation pane, choose Nodes. Locate the target node and choose More > Change Billing Mode in the Operation column.
- **Step 3** On the **Change Billing Mode** page, select the target node. The billing mode of a maximum of 40 nodes can be changed at a time.

Figure 6-3 Changing the billing mode of a node to yearly/monthly

v c	Change entire cluster to yearly/monthly billing mode Applies to the master node and all resources (such as EVS disks and elastic IP addresses) in the selected cluster.								
	Cluster Name	Cluster Specifications	Status		Version				
	cce-373896-2	50 nodes	Available		v1.19.10-r0				
Node change to period Applies to the user nodes and all auxiliary resources (such as EVS disks and elastic IP addresses) in the selected cluster. Support up to 40 user node change to period at									
	O Chosen 2 / 2 nodes			Node Name 🔻	QC				
	Node Name	Node Status	Specifications	Private IP Address	AZ				
	Cce-373896-2-80263	Available	8vCPUs 16GB c6s.2xlarge.2	192.168.0.181	AZ1				
	✓ cce-373896-2-05684	Available	8vCPUs 16GB c6s.2xlarge.2	192.168.0.242	AZ1				

Step 4 Click **OK**. Wait until the order is processed and the payment is complete.

----End

6.3 Yearly/Monthly to Pay-per-Use

After creating a yearly/monthly cluster or node, you can change it to a pay-peruse cluster or node for more flexibility.

NOTE

The pay-per-use billing takes effect only after the yearly/monthly subscription expires.

Prerequisites

The billing mode can only be changed from yearly/monthly to pay-per-use for a CCE cluster or node whose order status is **Provisioned**. You can view the order status on the **Billing & Costs** > **Renewal** page.

Procedure

- **Step 1** Log in to the CCE console.
- **Step 2** Hover over **Billing & Costs** in the upper part of the console and choose **Renewal** from the drop-down list.

The **Renewals** page is displayed.

- **Step 3** Customize the search criteria.
 - On the **Pay-per-Use After Expiration** tab, you can search for the resources with the billing mode changed to pay-per-use.

 On the Manual Renewals, Auto Renewals, and Renewals Canceled tabs, you can also change the billing mode of the resources to pay-per-use billing upon expiration.

Figure 6-4 Renewals

				More English	Ϋ́
enewals	Feedback IP Quick Links	Renew Domain	Billing & Costs	 Unpaid Orders 	Date for Auto-Renew
				Renewal	1
 I. If you want to continue using any resources about to expire, refer to How Do I Renew Resources? a 2. Renewals or chances to pay-per-use will be applied after the current subscription term ends. 	nd How Do I Change the Billing Mode from Yearly/Month	nly to Pay-per-Use?		My Packages	
 If you want to learn what happens after a resource expires, refer to What Are a Grace Period and a	Retention Period?				
 пуска тили то толукт уска заказащиота поло мажну, тола то тологишескиу телечтину и техновско ин 					
Instances expiring soon: 4 ; Instances to be frozen: 1 ; Instances to be released: 0. Please renew in til Instances expiring soon: 4 ; Instances to be frozen: 1 ; Instances to be released: 0.	ne. View instances.				
Service Type Cloud Container En Selected 1 * Region Al *	Enterprise Project All	Do not si	how resources that have ord	iers pending payment	
Manual Renewals (0) Auto Renewals (1) Pay-per-Use After Expiration (0)	Renewals Canceled (0)				
Batch Renew Modify Auto-Renew Change to Pay-per-Use After Expiration Ca	ncel Renewal Restore Renewal Batch	Export			Export Renewal Prices
Instance Name/ID Product Type/Specificat Region E	interprise Pr Provisioned/Expires	Status	Validity Period	Renews/Expires	Operation
Cool Container Engine Vht Cluster(High Availabil CN East-Shanghai1 c	efault Jan 29, 2023 14:35:38 GMT+08:00 Jul 31, 2023 23:59:59 GMT+08:00	Provisioned	11 days until expira Auto-Renew	Renewal Period: 1 month Remaining Renewals: Un.	Renew More +

Step 4 Change a yearly/monthly cluster or node to pay-per-use billing upon expiration.

• Single cluster or node: Select the cluster or node whose billing mode you want to change and choose **More** > **Change to Pay-per-Use After Expiration** in the **Operation** column.

Figure 6-5 Changing to pay-per-use billing upon expiration for a cluster or node

Renewals	Feedback E	Guick Links Renew Domain	Set Renewal Date	Modify Message Recipient	Set Deduction Date for Auto-Renewal
1 If you want to continue using any resources about to expire, refer to How Do I Renew Resources? and 1-2. Renewals or changes to pay-point-use will be applied after the current subscription term ends. 3. If you want to learn with Represent the area experient effective and the a Cance Petrol and a failer 4. If you want to renew your subscriptions more easily, refer to Automatically Renewing a Resource and Social 4. If you want to renew your subscriptions more easily, refer to Automatically Renewing a Resource and Social 4. If you want to renew your subscriptions more easily, refer to Automatically Renewing a Resource and Social 4. If you want to renew your subscriptions more easily.	low Do I Change the Billing Mod ntion Period? tting a Renewal Date	le from Yearly/Monthly to Pay-per-Use	0		
() Instances expiring score 4 ; Instances to be frozen: 1 ; Instances to be released: 0 . Please renew in time.	View instances.				
Expires Expire in 30 days Expire in 15 days Expire in 7 days Expired Frozen Custom	Name/ID/Order Number	☑ Enter a resource name, res	source ID, or orde Q		
Service type Cibild Consider Ell Selected I * Hegion Au *	Enterprise Project. All		Do not show resources that have	orders pending payment	
Manual Renewals (0) Auto Renewals (1) Pay-per-Use After Expiration (0) Renewals (1)	newals Canceled (0)				
Batch Renew Modify Auto-Renew Change to Pay-per-Use After Expiration Cancel	Renewal Restore Rene	swal Batch Export			Export Renewal Prices C
Instance Name/ID Product Type/Specificat Region Enter	prise Pr Provisioned/Ex	pires Status	Validity Period	Renews/Expires	Operation
Coolest Cloud Container Engine CN East-Shanghar1 defau	It Jan 29, 2023 14 Jul 31, 2023 23:	:35:38 GMT+08:00 59:59 GMT+08:00 → Provisio	and 11 days until expiration Auto-Renew	Renewal Period: 1 month Remaining Renewals: Un Modify Auto-Renew	Renew More .
				Restore Renewal	e After Evolution
				Cancel Renewal	
				Release ()	

• Multiple clusters or nodes: Select the cluster or node whose billing mode you want to change and click **Change to Pay-per-Use After Expiration** above the list.

Figure 6-6 Changing to pay-per-use billing upon expiration for multiple clusters or nodes

Renewals	G Feedback 🕼 Quick Links	Renew Domain	Set Renewal Date	Iodify Message Recipient	Set Deduction Date for Auto-Renewal			
1 If you want to continue using any resources about to applies, while to How Do I Ramen Resources? and How Do I Change The Billing Mode from Yaway/Monthly to Pay-per-Use? 2. Research or changes to pay-per-use will be applied after the current subscription term exist. 3. Prove with to hom that papers after a resource equity, which a Values? A Canada Priorit and a Relation Prioro? 4. Prove with to home your boots does not easily, relative Academic Remover A Revenue Date 4. Prove with to home your does does not easily, relative Academic Remover A Revenue Date 4. Prove with to home your does does not easily, relative Academic Remover A Revenue Date								
Instances expiring soon: 4 ; Instances to be frozen: 1 ; Instances to be released: 0 . Please renew in time. View instance	35.							
Express Express 13 days Express 13 days Express 15 days Express 7 days 7								
Manual Renewals (0) Auto Renewals (1) Pay-per-Use After Expiration (0) Renewals Canc	celed (0)							
Balch Renew Modify Auto-Renew Change to Payper-Use After Expiration Cancel Renewal	Restore Renewal Batch E	aport			Export Renewal Prices C			
✓ Instance Name/ID Product Type/Specificat Region Enterprise Pr	Provisioned/Expires	Status	Validity Period	Renews/Expires	Operation			
V Cloud Container Engine CN East-Shanghai1 default VM Cluster(High Averlabit	Jan 29, 2023 14:35:38 GMT+08:00 Jul 31, 2023 23:59:59 GMT+08:00	Provisioned	11 days until expira Auto-Renew	Renewal Period: 1 month Remaining Renewals: Un	Renew More -			
Cloud Container Engine CN East-Shanghart default VM Cluster(High Availabil	Jan 29, 2023 14:39:59 GMT+08:00 Jul 31, 2023 23:59:59 GMT+08:00	Provisioned	11 days until expira Auto-Renew	Renewal Period: 1 month Remaining Renewals: Un	Renew More +			

Step 5 Confirm the change details, and click **Change to Pay-per-Use**.

Figure 6-7 Changing to pay-per-use billing upon expiration

1.The billing mode change to pay-per-u 2. After pay-per-use is enabled, the act 3. Auto-renewal will not be applied anyn	se will be applied after the resource's current subscription term ends all cost incurred while changing the resources will be billed to your a nore after the resource' billing mode is changed to pay-per-use.	s. account.		
Instance Name/ID	Product Information	Auto-Renew	Pay-per-Use Starts	Price
$\sim \frac{10.44}{100000000000000000000000000000000000$	Service Type Cloud Container Engine Current Configuration:VM Cluster(High Availability) 1-50 node Region:CN East-Shanghai1	Renewal Period: 1 Remaining Renew	Jul 31, 2023 23:59:59 GMT+08:00	¥2.9100 / Hour
				Total ¥2.9100 / Hour
				Change to Pay-per-Use

----End

7 Renewing Subscriptions

7.1 Overview

When to Renew Subscriptions

If a yearly/monthly cluster or node is about to expire, but you want to continue using it, you need to renew the subscription within a specified period. Otherwise, the resources will be automatically released, and data will be lost and cannot be restored.

Only yearly/monthly CCE clusters or nodes can be renewed. If you use pay-per-use CCE clusters or nodes, just ensure that you have a top-up account with a sufficient balance.

If you renew the cluster or node before it expires, resources will be retained and you can continue using them. For details about the statuses of yearly/monthly resources after they expire, see **Impact of Expiration**.

How to Renew Subscriptions

Only yearly/monthly CCE clusters and nodes can be renewed on the CCE console. This section describes how to renew such clusters and nodes, as shown in Table 7-1.

Method	Billed Item	Description
Manually Renewing a CCE	Cluster	You can renew a yearly/monthly cluster on the console at any time before it is automatically deleted.
Resource	ECS	You can renew a yearly/monthly node on the console at any time before it is automatically deleted.

Method	Billed Item	Description
Automaticall y Renewing a CCE Resource	Cluster	You can enable auto-renewal to automatically renew a cluster before it expires. This prevents resources from being deleted in case you forget to renew a subscription.
	ECS	You can enable auto-renewal to automatically renew a node before it expires. This prevents resources from being deleted in case you forget to renew a subscription.

You can select a method to renew a yearly/monthly cluster or node based on the phase it is currently in.

Figure 7-1 Selecting a renewal method based on the current phase of a cluster or node



A yearly/monthly cluster or node is in the **Running** state after it is provisioned.

- When the subscription expires, the status will change from **Running** to **Expired**.
- If an expired cluster or node is not renewed, it enters a grace period. If it is not renewed by the time the grace period expires, the cluster or node will be frozen and enter a retention period.
- If you do not renew the subscription before the retention period expires, your clusters or nodes will be automatically deleted.

D NOTE

Once a yearly/monthly subscription has expired or a pay-per-use resource becomes in arrears, Huawei Cloud provides a period of time during which you can renew or top up your accounts. For details, see **What Is a Grace Period of Huawei Cloud? How Long Is It? What Is a Retention Period of Huawei Cloud? How Long Is It?**

You can enable auto-renewal anytime before a cluster or a node expires. The system will make the first attempt to charge your account for the renewal at 03:00, seven days before the expiry date. If this attempt fails, it will make another attempt at 03:00 every day until the subscription is renewed or expires. You can change the auto-payment date for renewal as required.

7.2 Manually Renewing a CCE Resource

You can renew a yearly/monthly cluster or node anytime on the CCE console before it is automatically deleted.

Renewing a Cluster on the Console

Step 1 Log in to the CCE console.

Step 2 On the cluster list page, click (S) in the upper right corner of the target cluster.

Figure 7-2 Renewing a yearly/monthly cluster

Operation Recor	rds ⊽ Search ke	yword			Renew		
🔁 cce-tes	t 🕐 🔹 Running <u>11 days until e</u>	piration			□ = + + + = = = + + + € = =		
Туре	CCE cluster Network Model	VPC network		CPU Usage	Memory Usage		
Cluster Version	v1.23 Billing Mode	Yearly/Monthly	1 /1	3.00%	19.50%		
Add-ons	000		Available/Total Nodes	Total CPUs 4 Core	Total Memory 8 GiB		
	- End (1/1)						

Step 3 On the Renew Cluster page, confirm the information and click Yes.

Renew Cluster						
Are you sure you want to renew t	he following items?					
Cluster Name	Cluster Version	Created				
cce-test	v1.23	Jan 29, 2023 14:35:38 GMT+08:00				
Only the resources assoc	iated with the order ar	e renewed.				
	Yes	No				

Figure 7-3 Renewing the cluster

Step 4 Select a renewal duration and optionally select Renew on the standard renewal date. For details, see Setting the Same Renewal Day for Yearly/Monthly **Resources**. Confirm the price and click **Pay**.

Figure 7-4 Confirming renewal

Instan	ce Name/ID	Product Information		Auto-Renew	Renewal Duration	Renewal Date	Fee
 ✓ cce-tes 	e Jacob andra a	Service Type:Cloud Container Engine Current Configuration:VM Cluster(Higi Region:CN East-Shanghai1	n Availability) 1-50 node	Renewal Period: 1 Remaining Renew	1 month	Current: Jul 31, 2023 23:5 Renewed: Aug 31, 2023 2	¥1,262.40
Renewal Duratio	n (III)						

Step 5 Select a payment method and make your payment. Once the order is paid, the renewal is complete.

----End

Renewing a Node on the Console

- **Step 1** Log in to the CCE console and click the cluster name to access the cluster console.
- **Step 2** In the navigation pane, choose **Nodes**. Click the name of the node to be renewed, and click **OK** to go to the cloud server details page on the cloud server console.
- Step 3 On the page displayed, choose More > Renew in the upper right corner.

D NOTE

You can renew multiple yearly/monthly ECSs at a time. The procedure is as follows:

- 1. Log in to the ECS console.
- 2. On the **Elastic Cloud Server** page, select the yearly/monthly ECS to be renewed.
- 3. On the top of the list, choose **More** > **Renew**.
- **Step 4** In the displayed **Renew** dialog box, confirm the information and click **Yes**.

Figure 7-5 Renewing the ECS

Renew			×
Are you sure you want to renew the following 1 E	CS?		
Name	Status	Remarks	
concerning other without	Running		
	Yes No		

Step 5 Select a renewal duration and optionally select Renew on the standard renewal date. For details, see Setting the Same Renewal Day for Yearly/Monthly Resources. Confirm the price and click Pay.

Figure 7-6 Confirming renewal

Instance Name/ID	Product	Information			Auto-Renew	Renewal Duration	Renewal Date		Fe
✓ 891c2076-a664-4520-b	Service Current 0 Region:0	Type:Elastic Cloud Si Configuration:Genera CN-Hong Kong	arver Il Computing s3.smal	II.1 1vCP	② Disabled	1 month	Current: Oct 01, 3 Renewed: Nov 0	2023 23: 1, 2023 2	\$11.38 USI

Step 6 Select a payment method and make your payment. Once the order is paid, the renewal is complete.

----End

Renewing a Subscription in Billing Center

This method is suitable for all resources, including clusters, nodes, EVS disks, and EIPs.

- **Step 1** Log in to the management console.
- **Step 2** Hover over **Billing & Costs** in the upper part of the console and choose **Renewal** from the drop-down list.

The **Renewals** page is displayed.

Step 3 Customize the search criteria.

On the **Manual Renewals**, **Auto Renewals**, **Pay-per-Use After Expiration**, and **Renewals Canceled** tabs, you can view the resources to be renewed.

Figure 7-7 Renewal management

			•	More [®] E	inglish	E	Э С
Renewals	🕃 Feedback 🕼 Quick Links	Renew Domain	Billing & Costs	•	Unpaid Orders	Date for Auto-	Renewal
					Renewal	0	
 I. If you want to continue using any resources about to expire, refer to How Do I Renew Resources? and How Do I Char 2. Renewals or chances to pay-per-use will be applied after the current subscription term ends. 	nge the Billing Mode from Yearly/Mont	ly to Pay-per-Use?			My Packages		
 If you want to learn what happens after a resource expires, refer to What Are a Grace Period and a Retention Period? If you want to recommend a subscriptions more pacify refer to Automatically Recommendation a Recent and Setting a Recommendation of the subscriptions and Setting a Recommendation of the subscriptions and Setting a Recommendation of the subscription of the subscriptions and Setting a Recommendation of the subscription of the subscription of the subscription of the subscriptions and Setting a Recommendation of the subscription of the subscrine of the subscription of the subscription of the subscripti							
H, in you waik to reliew your subscriptions more easily, reter to Automatically reterming a resource and detailing a renew	401 0000						
Instances expiring soon: 4; Instances to be frozen: 1; Instances to be released: 0. Please renew in time. View instances.							
Sonico Totats >							
Expires Expire in 30 days Expire in 15 days Expire in 7 days Expired Frozen Custom Name1	ID/Order Number V Enter a re	ource name, resource ID,	or orde Q				
Service Type All Region All Enterprise	Project All	• Do not sh	ow resources that have order	rs pendin	g payment		
Manual Renewals (5) Auto Renewals (1) Pay-per-Use After Expiration (0) Renewals Can	celed (0)						
Batch Renew Enable Auto-Renew Change to Pay-per-Use After Expiration Cancel Renewal	Batch Export				1	Export Renewal Prices	C
Instance Name/ID Product Type/Specifications Region Enter	rprise Project Provisioned/Expl	res	Status	Validit	y Period Ope	ration	
VItual Private Cloud Public IP address CN North-Beijing4 defa	ult Jun 14, 2023 15:3 Jul 14, 2023 23:59	0:45 GMT+08:00 :59 GMT+08:00	Expired	9 days Delete	after retention p	aw More •	

You can move all resources that need to be manually renewed to the **Manual Renewals** tab. For details, see **Restoring to Manual Renewal**.

- Step 4 Manually renew resources.
 - Individual renewal: Click **Renew** in the **Operation** column for the desired resource.

Figure 7-8 Individual renewal

Expires	ires in 30 days Expires in 15 d	ays Expires in 7 days Custom	Status	ovisioned Expired	Frozen				
Do not show r	sources that have orders pending	payment Do not show resource	e packages 👻						
V Instance ID	Image: Statese Unitercurre Unitercurr								
Manual Renewa	Is (1) Auto Renewals () Pay-per-Use After Expira	tion (0) Renewals Ca	inceled (0)					
Batch Renew	Enable Auto-Renew	Change to Pay-per-Use After Expire	ation Cancel Renewal	Batch Export				Export Renewal Prices	С
_ In	tance Name/ID	Product Type/Specifications	Region	Enterprise Project	Provisioned/Expires	Status	Validity Period	Operation	
~ 🗆 🐻	1c2076-a664-4520-b81c-f1ef	Elastic Cloud Server General Computing(s3.small.1)1	CN-Hong Kong	default	Sep 01, 2023 14:41:51 GMT+08:00 Oct 01, 2023 23:59:59 GMT+08:00	Provisioned	30 days until expiration Delete after retention pe	Renew More *	

• Batch renewal: Check the boxes for the desired resources, and click **Batch Renew** in the upper left corner.

Figure 7-9 Batch renewal

Expires in 30 days Expires in 15 days	rs Expires in 7 days Custom Statu	Provisioned Expired	Frozen				
🗌 Do not show resources that have orders pending payment 📄 Do not show resource packages 🕶							
▼ Instance ID/Resource ID is used to search by default.							
Manual Renewals (1) Auto Renewals (0)	Pay-per-Use After Expiration (0) Rene	wals Canceled (0)					
Batch Renew Enable Auto-Renew	Change to Pay-per-Use After Expiration Cancel R	enewal Batch Export				Export Renewal Prices	
Instance Name/ID	Product Type/Specifications Region	Enterprise Project	Provisioned/Expires	Status	Validity Period	Operation	
✓ ☑ 891c2076-a664-4520-b81c-f1ef	Elastic Cloud Server General Computing(s3.small.1 1 CN-Hong Kong	default	Sep 01, 2023 14:41:51 GMT+08:00 Oct 01, 2023 23:59:59 GMT+08:00	Provisioned	30 days until expiration Delete after retention pe	Renew More 👻	

Step 5 Select a renewal duration and optionally select Renew on the standard renewal date. For details, see Setting the Same Renewal Day for Yearly/Monthly Resources. Confirm the price and click Pay.

Figure 7-10 Confirming renewal

ew					
1.11 you change the resource specification 2. The renewal period in effect is not elig	ons before its renewal period takes effect, the renewal period car jible for a 5-day unconditional unsubscription.	not be unsubscribed from	n.		
Instance Name/ID	Product Information	Auto-Renew	Renewal Duration	Renewal Date	Fee
✓ cce-test	Service Type:Cloud Container Engine Current Configuration:VM Cluster(High Availability)[1-50 node Region:CN East-Shanghai1	Renewal Period: 1 Remaining Renew	1 month	Current: Jul 31, 2023 23:5 Renewed: Aug 31, 2023 2	¥1,262.40
Renewal Duration III 1 month 2 month	s 3 months 4 months 5 months 6 mor	ths 7 months	8 months 9 mo	onths 1 year 🖭 2 years 🖬	3 years 🖸
Renewal Date Renew on the star If you change the	ndard renewal date, the 1st of every month at 23:59:59 GMT+08: expiration date to Renewal Date, the expenditures will be added.	00 🖉 You can check the rener	wal days in the Renewal	Duration column.	

Step 6 Select a payment method and make your payment. Once the order is paid, the renewal is complete.

----End

Setting the Same Renewal Day for Yearly/Monthly Resources

If the resources have different expiry dates or the ECSs and attached EVS disks have different expiry dates, you can set the same renewal day, for example, the first day of each month, to make it easier to manage renewals.

In **Figure 7-11**, a user sets the same renewal day for two resources that will expire at different dates.

J	J	· · · · · · · · · · · · · · · · · · ·	
Procedure	1. Configure a renewal date.	2. Select resources for operations.	3. Renew on the renewal date.
Rules	For example, the renewal date is the Resource A Expiration: April 17 Resource B Renewal for 1 Expiration: May 08	month Additional renewal for 14 days month Additional renewal for 2000 and 20000 and 2000 and 20000 and 2000 and 2000 and 2000 an	Expiration: June 01 r 24 Expiration: July 01

Figure 7-11 Setting the same renewal day for resources with different expiry dates

For more details, see Setting a Renewal Date.

7.3 Automatically Renewing a CCE Resource

Auto-renewal can prevent CCE clusters or nodes from being automatically deleted if you forget to manually renew them. The auto-renewal rules are as follows:

- The first auto-renewal date is based on when the cluster or node expires and the billed usage period.
- The auto-renewal period of a cluster or a node depends on the subscription term. For example, if you select 3-month renewal duration, your cluster or node is automatically renewed for three months before each expiration.
- You can enable auto-renewal anytime before a cluster or a node expires. The system will make the first attempt to charge your account for the renewal at 03:00, seven days before the expiry date. If this attempt fails, it will make another attempt at 03:00 every day until the subscription is renewed or expires.
- After auto-renewal is enabled, you can still renew the cluster or node manually if you want to. After a manual renewal is complete, auto-renewal is still valid, and the renewal fee will be deducted from your account seven days before the new expiry date.
- By default, the renewal fee is deducted from your account seven days before the new expiry date. You can change this auto-renewal payment date as required.

For more information about auto-renewal rules, see Auto-Renewal Rules.

Prerequisites

The yearly/monthly cluster or node is not expired.

Enabling Auto-Renewal During Purchase

You can enable auto-renewal on the **Buy CCE Cluster** or **Create Node** page, as shown in **Figure 7-12**.

Figure 7-12 Enabling auto-renewal

Basic Settings	Specify the basic cluster	r settings.		
Billing Mode	Yearly/Monthly	Pay-per-use	?	
Required Duration	1 month		~	Auto-renewal ?

Auto-renewal enabled when you purchase a cluster or node complies with the following rules:

- Monthly billing: Your subscription will be renewed each month.
- Yearly billing: Your subscription will be renewed each year.

Enabling Auto-Renewal on the Renewals Page

This method is suitable for all resources, including clusters, nodes, EVS disks, and EIPs.

- **Step 1** Log in to the CCE console.
- **Step 2** Hover over **Billing & Costs** in the upper part of the console and choose **Renewal** from the drop-down list.

The **Renewals** page is displayed.

- Step 3 Customize the search criteria.
 - On the **Auto Renewals** tab, you can view the resources for which autorenewal has been enabled.
 - You can enable auto-renewal for resources on the Manual Renewals, Payper-Use After Expiration, and Renewals Canceled tabs.

Figure 7-13 Renewals

Renewals			🕼 Quick Links	Set Renewal Date	Modify Message Recipient	Set Deduction Date for Auto-Renewal	
If you want to continue using any resources about to expire, refer to How // Rememais or changes to pay-per-use will be applied after the current subs If you want to learn what happens after a resource expires, refer to VMa/ If you want to renew your subscriptions more easily, refer to Automatically	to I Renew Resources? Cannot Find the ription term ends. re a Grace Period and a Retention Perio Renewing a Resource and Setting a Rer	Resources to Be Renewe Id? newal Date	d? and How Do I Change the Billing Mode from Ye	arly/Monthly to Pay-per-Use	?		
Expires Expires in 15 days Expires in 7 days Custom Status Provisioned Expired Processories D and show resources that have orders pending payment D							
Service Type: Elastic Cloud Server 🚳 🛛 Add filter						x Q	
Manual Renewals (1) Auto Renewals (0) Pay-per-Use Af	er Expiration (0) Renewals C	canceled (0)					
Batch Renew Enable Auto-Renew Change to Pay-per-Use	After Expiration Cancel Renewa	Batch Export				Export Renewal Prices	
Instance Name/ID Product Type/Specifica	ions Region	Enterprise Project	Provisioned/Expires	Status	Validity Period	Operation	
V B91c2076-a664-4520-b81c11e1 Elastic Cloud Server General Computingis3.st	CN-Hong Kong	default	Sep 01, 2023 14:41:51 GMT+08:00 Oct 01, 2023 23:59:59 GMT+08:00	Provisioned	30 days until expiration Delete after retention pe	Renew More 💌	

Step 4 Enable auto-renewal for the yearly/monthly resources.

 Enabling auto-renewal for a single resource: Select the resource for which you want to enable auto-renewal and choose More > Enable Auto-Renew in the Operation column. Figure 7-14 Enabling auto-renewal for a single resource

Renewals		S Quick Links	Set Renewal Date	Modify Message Recipient	Set Deduction Date for Auto-Renewal
If you want to continue using any resources about to expire, refer to How Do I Remer Resources? Cannol Find the R Remensito or changes to pay-per-use will be appled after the current subcorplants me meds. If you want to annot have mark and a resource engines are resource engines. Prove Moral and Retention Period? If you want to renew your subcorplants more easily, refer to Automatically Remering a Resource and Setting a Remov	esources to Be Renewe ? wal Date	d? and How Do I Change the Billing Mode from Yi	early/Monthly to Pay-per-U	se?	
Expires Expires in 30 days Expires in 15 days Expires in 7 days Custom Status Pro	wisioned Expired	Frozen			
Do not show resources that have orders pending payment Do not show resource packages •					
Service Type: Elastic Cloud Server 🕘 🛛 Add filter					×Q
Manual Renewals (1) Auto Renewals (0) Pay-per-Use After Expiration (0) Renewals Car	nceled (0)				
Batch Renew Enable Auto-Renew Change to Pay-per-Use After Expiration Cancel Renewal	Batch Export				Export Renewal Prices C
Instance Name/ID Product Type/Specifications Region	Enterprise Project	Provisioned/Expires	Status	Validity Period	Operation
 Elastic Cloud Server S91c2076-a664-4520-b81c-firf General Computing(s3.smail.1)1 CN-Hong Kong 	default	Sep 01, 2023 14:41:51 GMT+08:00 Oct 01, 2023 23:59:59 GMT+08:00	Provisioned	30 days until expiration Delete after retention pe	Renew More .
				Enable Auto-Renew	
				Change to Pay-per-Use	e After Expiration
				Cancel Renewal	

Enabling auto-renewal for multiple resources at a time: Select the resources for which you want to enable auto-renewal and click Enable Auto-Renew above the list.

Figure 7-15 Enabling auto-renewal for multiple resources

Renewals	[Quick Links	Set Renewal Date	Modify Message Recipient	Set Deduction Date for Auto-Renewal			
 If you want to continue using any resources adout to copine, refer to How Do I Channe Resources' Cannot Find the Resources to Be Renewest' and How Do I Channe Re Billing Mode Itom Yearly/Monthly to Pay-per-Use? Renewest' and How Do I Channe Re Billing Mode Itom Yearly/Monthly to Pay-per-Use? If you want to any the Appear adar a resource agains, etc. It shall also a Constrained on a Relation Prevent? If you want to renew your adocception more each, refer to How Relation Researce of Setting a Researce Data 							
Expres Dipres In 30 days Expres In 15 days Expres In 7 days Custom Status Proveinent Expres Proces							
Service Type Elastic Doud Service Shart have orders panding payment Do not thow resource packages * Service Type Elastic Doud Service Service Type Elastic Doud Service Type Elastic Do							
Manual Rehewals (1) Auto Renewals (0) Pay-per-Use After Expiration (0) Renewals Canceled (0) Batch Renew Enable Auto-Renew Change to Pay-per-Use After Expiration Cancel Renewal Batch Expiration				Export Renewal Prices C			
Vinstance NameID Product Type/Specifications Region Enterprise Project	t Provisioned/Expires	Status	Validity Period	Operation			
V V slitzer - Elastic Cloud Server CN-Hong Kong default	Sep 01, 2023 14:41:51 GMT+08:00 Oct 01, 2023 23:59:59 GMT+08:00	Provisioned	30 days until expiration Delete after retention pe	Renew More 💌			

Step 5 Select a renewal period, specify the auto-renewal times, and click **OK**.

If auto-renewal is enabled on the **Renewals** page, the auto-renewal period is subject to the selected renewal period and number of auto-renewals. For example, if you select 3-month renewal duration and do not select Preset Auto-renewals, your subscription is automatically renewed for three months before each expiration.



Figure 7-16 Enabling auto-renewal

		Instance Name/ID	Service	Current Configuration	Region	Billing M	Validity Period	Current Auto-R	Remaining	End Time
~ .	2	cce-test 07da5e02-9f9f-11ed-b	Cloud Co	VM Cluster(High Avail	CN East-Sha	Monthly	21 days until exp	None	Unlimited	
No										
New Auto-R Period	tene	1 month	3 m	onths	6 months		9 months		1 year	
Auto-renew	als	Preset Auto-renewa	Is							



8 Bills

You can view the resource usage and bills for a different billing cycle on the **Billing** page in **Billing Center**.

Bill Generation

Transaction records for yearly/monthly subscriptions are generated immediately after being paid for.

A pay-per-use resource is billed by the hour, day, or month, depending on the resource's usage type. . The CCE resource usage is billed by the hour.

You are not charged immediately after a record is generated. For example, if a pay-per-use ECS (which is billed on an hourly basis) is deleted at 08:30, you will still have expenditures for the 08:00 to 09:00 hour, but you will not be billed for the 08:00 to 09:00 hour until about 10:00. On the **Bills** page of the Billing Center, select the **Bill Details** tab. **Expenditure Time** in the bill indicates the time when the pay-per-use resource is used.

Viewing Bills of a Specific Resource

This section uses a CCE cluster as an example to describe how to view the bill of a specified resource.

- **Step 1** Log in to the CCE console and click the cluster name to access the cluster console.
- Step 2 On the cluster details page, copy the cluster ID.

Figure 8-1 Obtaining the cluster ID

CCE-test CCE Standard V O Running									
I Overview	Basic Info	Basic Info							
Kubernetes Resources	Name	cce-test 🖉							
몱 Workloads	Cluster ID								
Services & Ingresses	Туре	CCE Standard							
Storage	Cluster Version	v1.23							
© Configurations And Secrets	Patch Version	v1.23.8-r0							
Q Policies	Status	O Running							
Templates	Cluster Scale	Nodes: 50							
Security Custom Resources	Created	Jan 29, 2023 14:35:38 GMT+08:00							
Namespaces	Enterprise Project	default Manage⊡							

Step 3 On the top menu bar, choose Billing & Costs > Bills.

The **Billing** page is displayed.

Step 4 On the **Bill Details** tab, select **Resource ID** as the filter criteria, enter the obtained resource ID, and click the Q icon.

Figure 8-2 Searching for a bill

Transaction	n Bills 🧿 🛛	Bill Details (?)													
Billing Cycle Sep 2023 •															
Settings	Usage	Resource Name or ID	Resour	се Туре	Service Type	Account	🙆 Data Pe	iod By billing) cycle	By day	Details	Search for reso	urces?		
Resource	D:	The Read and	0 7 Ad	dd filter										X Q	₹ 🚳
Billing	Enterpr 7	Account Name (?)	Service 7	Resour)	Billing 🏹	Bill Type 🏹	Resource N	Resource Tag	Specificatio	Region 🏹	AZ	Usage Type	Unit Pri 🥐	Unit	Total U
Sep 2	10.00	10000	Cloud Conta	CCE	Pay-per-Use	Expenditure	${\rm Trank}$		VM Cluster(${\rm max} =$	AZ1	Duration	2.91	YUAN/Hour	643.712

In this example, the bill details are displayed by usage and billing cycle. You can also select other statistical dimensions or periods.

----End

Checking the Consistency of the Actual Usage and Billed Usage

Assume that you purchased a pay-per-use cluster with 50 worker nodes and multiple master nodes at 10:09:06 on April 08, 2023 and deleted it at 12:09:06 on April 08, 2023.

• Transaction Records

Pay-per-use CCE clusters are calculated by the second but billed every hour. You can check the transaction records against the actual usage. For details, see **Table 8-1**.

Service Type	Cloud Container Engine (CCE)
Resource Type	CCE
Billing Mode	Pay-per-Use
Expenditu re Time	 For the period of time from 10:09:06 to 12:09:06, three transaction records would be generated for the resource usage in the following periods: 2023/04/08 10:09:06 - 2023/04/08 11:00:00 2023/04/08 11:00:00 - 2023/04/08 12:00:00 2023/04/08 12:00:00 - 2023/04/08 12:09:06
List Price	List price on the official website = Unit price of the cluster flavor x Required duration In this example, the cluster was used for 3,054 seconds in the first period. If the unit price is 0.54 USD/hour , the list price is calculated as follows: $0.54 \times (3054/3600) = 0.4581 \text{ USD}$. Similarly, you can calculate the list price for the other periods. For details, see CCE Pricing Details .
Discounte d Amount	Discounts offered for cloud services, for example, commercial discounts, partner authorized discounts, and promotional discounts. It is the discounted amount based on the list price.
Truncate d Amount	Huawei Cloud billing is calculated to the 8th decimal place. However, the amount due is truncated to the 2nd decimal place. The third and later decimal places are referred to as the truncated amounts. Take the first period as an example. The truncated amount is \$0.0081 USD.
Amount Due	Amount due = List price – Discount amount – Truncated amount Take the first period as an example. If the discount amount is 0, the amount due is \$0.45 USD (0.4581 – 0 – 0.0081).

• CCE bill details

Bill details can display in multiple ways. By default, the bill details of a resource are displayed by usage and by billing cycle. **Table 8-2** illustrates the CCE bill details, which can be used to check against the actual usage.

 Table 8-2
 Cluster bill details

Service	Cloud Container Engine (CCE)
Туре	

Resource Type	CCE
Billing Mode	Pay-per-use
Resource Name/ID	Specific cluster name and ID. Example: cce-test, 4cdeb1cd-7071-4890-9ce4-e6c2299e960e
Specificat ions	Cluster scale and HA Example, VM Cluster (High Availability) 1-50 nodes
Usage Type	Duration for a pay-per-use CCE cluster
Unit Price	When pay-per-use billing is used, the unit price is only provided if the amount is equal to the usage multiplied by the unit price. No unit price is provided in other pricing modes, for example, tiered pricing.
	Pay-per-use clusters are priced in the simple mode. For details, see CCE Pricing Details.
Unit	CNY/hour
Usage	Depends on the unit of the unit price, which, for a CCE cluster, is CNY/hour. Cluster usage is billed by the hour. In this example, the total usage is 2 hours.
Usage Unit	Hour
List Price	List price on the official website = Unit price of the cluster flavor x Required duration
	In this example, the cluster was used for 2 hours. If the unit price is 0.54 USD/hour , the list price is calculated as follows: $0.54 \text{ x } 2 = 1.08 \text{ USD}$.
Discount ed Amount	Discounts offered for cloud services, for example, commercial discounts, partner authorized discounts, and promotional discounts. It is the discounted amount based on the list price.
Amount Due	Amount that should be paid for used cloud services after discounts are applied.

9 Arrears

When the settlement period of your cloud services ends, bills are generated and costs are deducted from your account. If there is not enough balance in your account, your account will be in arrears. If you want to continue using your cloud services, you will need to top up your account in a timely manner.

Impact of Arrears

NOTE

Once a yearly/monthly subscription has expired or a pay-per-use resource becomes in arrears, Huawei Cloud provides a period of time during which you can renew or top up your accounts. For details, see **What Is a Grace Period of Huawei Cloud? How Long Is It? What Is a Retention Period of Huawei Cloud? How Long Is It?**

• Yearly/Monthly

This is a pre-paid billing mode, so you can continue using yearly/monthly CCE resources even if your account is in arrears. However, you cannot perform operations such as purchasing clusters, upgrading the cluster specifications, or renewing CCE resources, because they will generate new expenditures.





• Pay-per-Use

If there is no top-up account with sufficient balance and no other payment method configured to pay for the resources used, your account goes into arrears, and the pay-per-use CCE resources enter the grace period. You are still responsible for expenditures generated during the grace period. You can view the charges on the **Overview** page in **Billing Center** and pay any past due balance as needed.

If your account is still in arrears after the grace period ends, the resources enter the retention period and their status turns to **Frozen**. You cannot perform any operations on these resources.

After the retention period ends, CCE clusters and resources like nodes, EVS disks, and EIPs will be released and cannot be restored.

Figure 9-2 Lifecycle of a pay-per-use CCE resource



Avoiding and Handling Arrears

Make sure you have a valid payment method configured as soon as possible after your account is in arrears. For details, see **Topping Up an Account**.

If the cluster is no longer needed, you can delete it and other cloud service resources in the cluster to avoid further expenditures.

In **Billing Center**, enable **Balance Alert** on the **Overview** page. Then, anytime an expenditure quota drops to below the threshold you specify, Huawei Cloud automatically notifies you by SMS or email.

If your account is in arrears, top up your account in time. If the resource usage becomes stable, you can purchase yearly/monthly resources to reduce costs. For details, see **Yearly/Monthly Billing**.

10 Billing Termination

If you no longer need cloud service resources, you can unsubscribe from or delete them to stop the billing.

Yearly/Monthly Resources

When you purchase a yearly/monthly resource, such as a cluster or node, you make a one-time up-front payment. By default, the billing automatically stops when the purchased subscription expires.

- If a yearly/monthly resource is no longer needed before the subscription expires, you can unsubscribe from it. The system will return a certain amount of money to your account based on whether the resource is subject to the five-day unconditional unsubscription or whether cash coupons or discount coupons are used. For details, see Unsubscribing from In-Use Resources.
- If you have enabled auto-renewal but no longer want to automatically renew the subscription, disable it before the auto-renewal date (7 days before the expiration date by default) to avoid unexpected expenditures.

Pay-per-Use Resources

If pay-per-use resources, such as clusters and nodes, are no longer required, delete them in a timely manner. You need to pay attention to the following:

- You will not be billed for the managemant of a hibernated cluster, but other cloud service resources like EVS disks and bandwidth in the cluster will still be billed in their original billing modes.
- You will not be billed for basic resources like vCPUs and memory after a node is stopped, but the EVS disks and bandwidth used by the node will still be billed as usual.

To avoid incurring fees, delete the cluster and the related cloud service resources.

Searching for Resources from Bills and Stopping Billing

To ensure that all related resources are deleted, you can search the billing records by resource ID, and then delete the resources you identify in this way. The procedure is as follows: **Step 1** On the top menu bar, choose **Billing & Costs** > **Bills**.

The **Billing** page is displayed.

Step 2 On the **Bills** page of Billing Center, select the **Bill Details** tab. Click the icon shown in the following figure to copy the resource ID.

Figure 10-1 Copying the resource ID

Transactions and Detailed Bills										
Transaction Bills ⑦ Bill Details ⑦										
Billing Cycle Jul 2023 Settings Usage Resource Name or ID ③ Data Period By billing cycle By day Details Search for resources?										
Service Type: Cloud Container Engine (CCE)		× Q Ł 🚳								
Billing Enterpr 7 Account Name 🕐 Service 7 Resour 7 Billing 7 Bill Type 7 Resource Name/ID	Resource Tag	Specifications								
Jul 2023 default Cloud Conta CCE Pay-per-Use Expenditure	-	VM Cluster(High Availability) 1-50								

Step 3 Log in to the CCE console. On the top menu bar, select the region where your cluster resides. Select Cluster ID from the filter criteria, and enter the resource ID copied in step Step 2.

Figure 10-2 Searching for the resource

Operation Recor	rds	Cluster ID:	and the state	Add filter		× Q C
	• © •	Running				四日今日日日今~今日
Туре	CCE cluster	Network Model	VPC network		CPU Usage	Memory Usage
Cluster Version	v1.25	Billing Mode	Pay-per-use	2 /2	1.43%	12.67%
Add-ons	∾ 🗢 🍩 (9 49		Available/Total Nodes	Total CPUs 16 Core	Total Memory 32 GiB

Step 4 Click $\overline{\overline{U}}$ in the upper right corner of the cluster to delete the cluster.

NOTE

You are billed one hour after the resource usage is calculated, so a bill may still be generated after the pay-per-use resource is deleted. For example, if you delete a CCE cluster that is billed on an hourly basis at 08:30, the expenditures for that hour from 08:00 to 09:00 are usually not billed until about 10:00.

----End

11 Billing FAQ

- How Is CCE Billed or Charged?
- How Do I Change the Billing Mode of a CCE Cluster from Pay-per-Use to Yearly/Monthly?
- Can I Change the Billing Mode of CCE Nodes from Pay-per-Use to Yearly/ Monthly?
- Which Invoice Modes Are Supported by Huawei Cloud?
- Will I Be Notified When My Balance Is Insufficient?
- Will I Be Notified When My Account Balance Changes?
- Can I Delete a Yearly/Monthly-Billed CCE Cluster Directly When It Expires?
- How Do I Unsubscribe From CCE?