Dedicated Host

Billing

Issue 01

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Contents

1 Billing Overview	1
2 Billing Mode	3
3 Billing Items	6
4 Billing Examples	10
5 Renewing Subscriptions	12
5.1 Overview	
5.2 Manually Renewing a DeH	13
5.3 Auto-renewing a DeH	15
6 Bills	17
7 Arrears	19
8 Billing Termination	21
9 Cost Management	23
10 FAQ	28
10.1 Do I Need to Pay for ECSs Deployed on My DeHs?	28
10.2 Can I Purchase DeHs on a Pay-per-Use Basis?	28
10.3 What Should I Do When My DeHs Expire? What Should I Do If My Account Is in Arrears?	28

Billing Overview

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

Billing Modes

DeHs can only be billed on a yearly/monthly basis. Yearly/Monthly is a prepaid billing mode. You pay in advance for a subscription term, and in exchange, you get a discounted rate. You will need to make sure you have a top-up account with a sufficient balance or have a valid payment method configured first. For details, see **Billing Mode**.

Billing Items

The billing items include DeH as well as the resources associated with the ECSs created on the DeH such as images, EIPs, EVS disks, and CBR.

- The CPU, memory, and compute resources of ECSs created on a DeH are free of charge.
- You only need to pay for the associated resources you used such as images, EIPs, EVS disks, and CBR.

After an ECS is created, you can bind yearly/monthly EIPs, EVS disks, and CBR instances independently. The attached disks used as the system disks in ECSs on DeHs can only be billed on a pay-per-use basis.

For details about the billing factors and formulas for each billing item, see **Billing Items**.

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

Renewing Subscriptions

If you want to continue using a DeH after it expires, you need to renew the subscription within the specified period. Otherwise, the DeH will be automatically released, and data may be lost. You can renew your subscriptions manually or automatically. For more details, see **Overview**.

Viewing Bills

You can choose **Billing & Costs** > **Bills** the top menu bar of the management console to check the DeH 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 DeHs, you will need to top up your account or configure a valid payment method in a timely manner. For details, see Arrears.

• Stopping Billing

If you no longer need to use a DeH, you can unsubscribe from or delete it to stop the billing. For details, see **Billing Termination**.

Managing Costs

DeH costs are classified into resource costs and O&M costs. You can allocate, analyze, and optimize DeH costs to save more money. For details, see **Cost Management**.

2 Billing Mode

DeHs can only be billed on a yearly/monthly basis. Yearly/Monthly is a prepaid billing mode. This section describes the billing rules for yearly/monthly DeH resources.

ECSs created on the DeH are free of charge, and you only need to pay for the associated resources you used such as images, EIPs, EVS disks, and CBR. For details about the billing modes and rules, see **Billing Items**.

Billing Method

You are billed by the subscription term you purchase.

Billed Usage Period

A yearly/monthly DeH is billed for the purchased duration. 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 purchased a one-month DeH 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.

Billing Examples

Suppose you purchased a one-month DeH on March 08, 2023, 15:50:04, and renewed the subscription for one more month before the initial subscription expired. The following usage periods will be billed:

- March 8, 2023, 15:50:04 to April 8, 2023, 23:59:59
- April 8, 2023, 23:59:59 to May 8, 2023, 23:59:59

You must prepay for each billing period. Table 2-1 shows the billing formula.

Table 2-1 Billing formulas

Resource	Formula	Unit Price
DeH	Unit price of the DeH flavor x Required duration	See the prices in DeH Pricing Details .

Price Change After Specification Change

If the specifications of an ECS no longer meet your needs, you can change the ECS specifications, such as flavor, vCPUs, and memory, on the DeH console. For details, see **Modifying Specifications of ECSs on DeHs**.

No fees will be incurred for the change of ECS specifications, but the resources associated with the ECS, such as images, EIPs, EVS disks, and CBR, will still be billed on a pay-per-use basis.

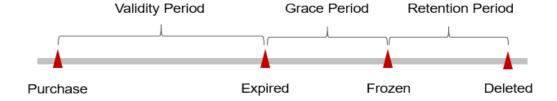
■ NOTE

The specifications of a DeH cannot be changed.

Impact of Expiration

Figure 2-1 shows the statuses a yearly/monthly DeH can go through throughout its lifecycle. After a DeH is purchased, it enters the valid period and runs normally during this period. If the DeH is not renewed after it expires, before being deleted, it first enters a grace period and then a retention period.

Figure 2-1 Lifecycle of a yearly/monthly DeH



Expiration Reminder

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

- The system will send you a reminder 30 days, 15 days, 7 days, 3 days, and 1 day before a yearly resource expires.
- The system will send you a reminder 15 days, 7 days, 3 days, and 1 day before a monthly resource expires.

Impact of Expiration

If your yearly/monthly DeH is not renewed after it expires, it changes to the **Expired** state and enters a grace period. During the grace period, you can access the DeH but cannot:

- Change the OS.
- Expand the EVS disk capacity.
- Change the bandwidth size.
- Expand CBR vault capacity.

If the DeH is not renewed after the grace period ends, it changes to the **Frozen** state and it enters a retention period. You cannot perform any operations on the DeH while it is in the retention period.

If the DeH is not renewed by the time the retention period ends, the DeH, ECSs on it, and the resources associated with the ECSs, such as EIPs, EVS disks, and CBR, will be released and the data cannot be restored.

□ NOTE

• For details about renewals, see Overview.

3 Billing Items

Billing

The billing items include DeH as well as the resources associated with the ECSs created on the DeH such as images, EIPs, EVS disks, and CBR. For details, see **Table 3-1**.

- The CPU, memory, and compute resources of ECSs created on a DeH are free of charge.
- You only need to pay for the associated resources you used such as images, EIPs, EVS disks, and CBR.

After an ECS is created, you can bind yearly/monthly EIPs, EVS disks, and CBR instances independently. The attached disks used as the system disks in ECSs on DeHs can only be billed on a pay-per-use basis.

□ NOTE

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

Table 3-1 DeH billing items

Billing Item	Description	Billing Mode	Billing Formula
*DeH	Bill by DeH flavor. DeHs of different flavors can accommodate ECSs of different flavors to provide diverse computing and storage capabilities.	Yearly/ Monthly	Unit price x Required duration The actual calculation is based the price in the DeH Pricing Details.

Billing Item	Description	Billing Mode	Billing Formula
*Image	 Public images: Only KylinOS and UnionTechOS images are billed. Private images: Private images for system disks and data disks can be used for free. For full-ECS images, you will be billed for using the backup vault of CBR. Shared images: Shared images for system disks and data disks can be used for free. For full-ECS image shared by others, you will be billed for using the backup vault of CBR. KooGallery images: See the price provided by the image provider. 	Pay-per- use	Unit price x Required duration The unit price of an image is that displayed on the purchase page and KooGallery.
*EVS disk (system disk) Billed by EVS disk type and capacity. When you purchase an ECS, a 40 GiB system disk is selected by default. You can select a higher capacity as required. Regardless of whether you use the disk, you will be charged right away after purchasing it.		Pay-per- use	Unit price x Required duration For details about the disk unit price, see Disk Price in ECS Pricing Details, or EVS Pricing Details.
EVS disk (data disk)	If you have additional storage requirements, you need to purchase more data disks. Billed by EVS disk type and capacity.	Pay-per- use and yearly/ monthly	Unit price x Required duration

Billing Item	Description	Billing Mode	Billing Formula
EIP	An EIP is required if the ECS needs to access the Internet. Billed by bandwidth, traffic, and the EIP reservation price. EIP will be billed by bandwidth, traffic, or shared bandwidth. You are also billed for IP reservation if you do not bind the EIP to any instance.	Pay-per- use and yearly/ monthly You can purchase a bandwidt h add-on package or a shared traffic package.	Tiered pricing based on fixed bandwidth O Mbit/s to 5 Mbit/s (included): billed at a fixed unit price per Mbit/s Greater than 5 Mbit/s: billed at a different price per Mbit/s For details about the unit price of EIP bandwidth, see Bandwidth Price in ECS Pricing Details, or EIP Pricing Details.

If you configure advanced settings, such as Host Security Service (HSS) and Cloud Backup and Recovery (CBR), you need to also pay for these services. For details, see **Table 3-2**.

Table 3-2 Billing items for advanced settings

Billing Item	Description
HSS	You can use the HSS basic or enterprise edition to protect your ECSs.
	 The HSS basic edition (one-month free trial) provides basic protection, account cracking protection, weak password detection, and malicious program detection.
	 The HSS enterprise edition provides vulnerability fixing, anti- virus protection, and DJCP MLPS certification. Additional charges apply.
	For more details, see HSS Pricing Details .
CBR	You can purchase a backup vault to store backups generated. You are billed based on the vault capacity. For details, see CBR Pricing Details.

Billing Examples

Suppose you purchased a one-month DeH on March 08, 2023, 15:50:04, and renewed the subscription for one more month before the initial subscription expired. The following usage periods will be billed:

- March 8, 2023, 15:50:04 to April 8, 2023, 23:59:59
- April 8, 2023, 23:59:59 to May 8, 2023, 23:59:59

You must prepay for each billing period. Table 3-3 shows the billing formula.

Table 3-3 Billing formulas

Resource	Formula	Unit Price
DeH	Unit price of the DeH flavor x Required duration	See the prices in DeH Pricing Details .

4 Billing Examples

Billing Scenario

A user purchased a one-month s7 DeH on March 18, 2023, 10:30:00 and created a pay-per-use ECS on March 18, 2023, 15:30:00. The ECS specifications are as follows:

- Flavor: s7.large.2 (2 vCPUs, 4 GiB)
- Image: CentOS 7.9
- System disk: General Purpose SSD | 40 GiB
- Data disk: General Purpose SSD | 100 GiB
- Public network bandwidth: 6 Mbit/s

After a period of time, the user found that the current ECS specifications could not meet service requirements and upgraded the ECS specifications to s7.xlarge.2 (4 vCPUs, 8 GiB) on April 20, 2023, 9:00:00. Since the user wanted to use the DeH for a long term, the user then renewed the subscription for one more month. So how much will the user be billed for this DeH in March, April, and May?

Billing Analysis

The total price of this DeH involves both DeH and the resources associated with the ECS created on this DeH.

DeH

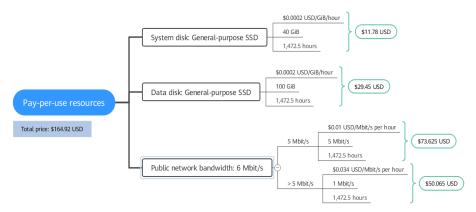
From March 18, 2023, 10:30:00 to May 18, 2023, 23:59:59, the DeH is billed for two-month subscription.

Unit price x Required duration = \$1,792.30 USD/month x 2 = \$3,584.60 USD

Pay-per-use resources

The resources associated with the ECS created on the DeH are billed on a pay-peruse basis during the period from March 18, 2023, 15:30:00 to May 18, 2023, 23:59:59 (the billed usage duration is 1,472.5 hours). The price would be calculated as follows:

Figure 4-1 Pay-per-use resource billing



The total price for this DeH in March, April, and May is: \$3,584.60 USD + \$164.92 USD = \$3749.52 USD

5 Renewing Subscriptions

5.1 Overview

When to Renew Subscriptions

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

If you renew the DeH before it expires, resources will be retained and you can continue using the DeH. For details about DeH statuses after they have expired and the associated impacts, see **Impact of Expiration**.

How to Renew Subscriptions

You can renew a yearly/monthly DeH manually or automatically.

Table 5-1 Renewing a yearly/monthly DeH

Method	Description
Manually Renewing a DeH	You can renew a yearly/monthly DeH on the console any time before it is automatically deleted.
Auto-renewing a DeH	After auto renewal is enabled, the DeH is automatically renewed before each expiration. This prevents resources from being automatically deleted if you forget to manually renew the DeH.

You can select a method to renew a yearly/monthly DeH based on the phase the DeH is currently in.

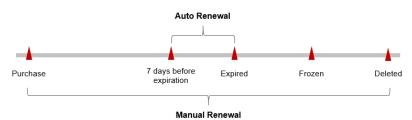


Figure 5-1 Lifecycle of a yearly/monthly DeH

- A DeH is in the running state after it is provisioned.
- When the DeH subscription expires, the status will change from running to expired.
- If the DeH is not renewed upon expiration, it enters the grace period. If the DeH is not renewed within the grace period, its status changes to frozen and enter a retention period.
- If you do not renew the subscription before the retention period expires, the DeH will be automatically released.

For details about the grace period and retention period, see What Is a Grace Period of Huawei Cloud? How Long Is It? and What Is a Retention Period of Huawei Cloud? How Long Is It?

You can enable auto-renewal any time before a DeH expires. By default, 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.

5.2 Manually Renewing a DeH

You can renew a yearly/monthly DeH on the console any time before it is automatically deleted.

Renewing a DeH on the Console

- **Step 1** Log in to the management console.
- Step 2 Click in the navigation pane on the left and choose Compute > Dedicated Host.
- **Step 3** Select the DeH you want to renew on the displayed page.
- **Step 4** Click **More** > **Renew** in the **Operation** column.
- **Step 5** Confirm the information on the displayed page and click **Yes**.
- Step 6 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.

Step 7 Select a payment method and make your payment. Once the order is paid, the renewal is complete.

----End

Renewing a DeH in the Billing Center

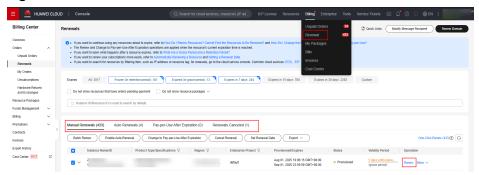
- **Step 1** Log in to the management console.
- **Step 2** Hover over **Billing** in the upper part of the console and choose **Renewal** from the drop-down list.

The **Renewals** page is displayed.

Step 3 Set the search criteria.

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

Figure 5-2 Renewals



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

- **Step 4** Manually renew the resources.
 - Individual renewal: Click **Renew** in the **Operation** column for the desired resource.
 - Batch renewal: Check the boxes for the desired resources, and click Batch Renew in the upper left corner.
- 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.
- **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 you have multiple DeHs with different expiration dates, you can set the expiration dates to the same date for convenient management and renewal.

In **Figure 5-3**, a user sets the same renewal day for two resources that will expire at different dates.

1. Configure a renewal date. 2. Select resources for operations. 3. Renew to the renewal date. Procedure For example, the renewal date is the 1 day of each month. Resource A Additional renewal Renewal for 1 month Expiration: for 14 days Rules Additional renewal for 24 Resource B Renewal for 1 month Expiration: May 08

Figure 5-3 Setting the same renewal day for resources with different expiry dates

For details, see **Setting a Renewal Date**.

5.3 Auto-renewing a DeH

Auto-renewal can prevent DeHs from being automatically released if you forget to manually renew them. The auto-renewal rules are as follows:

- The first auto-renewal date is based on when the DeH expires and the billing cycle.
- The auto-renewal period of a DeH depends on the subscription term. Monthly subscriptions renew each month, and yearly subscriptions renew each year.
- You can enable auto-renewal any time before a DeH expires. By default, 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 DeH 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 DeH is not expired.

Auto-renewal has been enabled during the purchase.

You can enable auto-renewal on the DeH purchase page, as shown in **Figure 5-4**. For details, see **Buying DeHs**.

Figure 5-4 Enabling auto-renewal



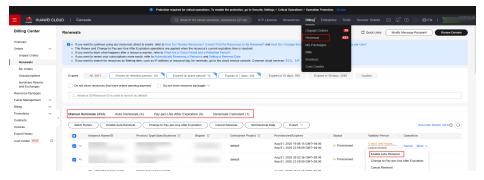
Enabling Auto-Renewal on the Renewals Page

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

The **Renewals** page is displayed.

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

Figure 5-5 Renewals



- **Step 4** Enable auto-renewal for yearly/monthly DeHs.
 - Enabling auto-renewal for a single DeH: Select the DeH for which you want to enable auto-renewal and choose **More** > **Enable Auto-Renew** in the **Operation** column.
 - Enabling auto-renewal for multiple DeHs: Select the DeHs for which you want to enable auto-renewal and click **Enable Auto-Renew** above the list.
- **Step 5** Select a renewal period, specify the auto-renewal times, and click **OK**.

----End

 $\mathbf{6}_{\mathsf{Bills}}$

You can view the resource usage and bills for different billing cycles in **Billing** of Billing Center.

Billing Generation

- Yearly/Monthly: After a yearly/monthly DeH and its associated resources are paid, a bill is reported to the billing system for settlement.
- Pay-per-use: The usage of pay-per-use resources is reported to the billing system at a fixed interval for settlement. Pay-per-use resources can be settled by hour, day, or month based on usage type. For details, see Bill Run for Payper-Use Resources. The resources associated with the ECSs created on a DeH, such as images, EIPs, EVS disks, and CBR, are billed by hour.

The fee deduction time of pay-per-use resources may be later than the settlement period. For example, if a resource (settled by hour) is deleted at 08:30, the fees generated during 08:00 to 09:00 are usually deducted at about 10:00. In the Billing Center, choose **Billing** > **Expenditure Items** in the left navigation pane, **Expenditure Time** in the bill indicates the time when the pay-per-use resource is used.

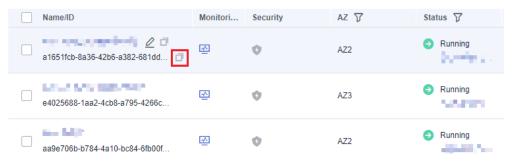
Viewing Bills of a Specific Resource

Step 1 Log in to the management console, click in the navigation pane on the left, and choose **Compute > Dedicated Host**.

The DeH list is displayed.

Step 2 Click the icon shown in the figure below to copy the resource ID.

Figure 6-1 Copying the resource ID



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

The **Dashboard** page is displayed.

Step 4 Choose Billing > Expenditure Details in the left navigation pane. Select Resource

ID as the filter criteria, enter the resource ID obtained in **Step 2**, and click the icon.

Figure 6-2 Searching for a transaction



By default, the bill details are displayed by usage and billing cycle. You can choose other display options as required. For details, see **Bills**.

----End

7 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 DeHs, you will need to top up your account or configure a valid payment method in a timely manner.

Reason of Arrears

- There is not a sufficient account balance to pay for your bills of renewals and new purchases and there is no other payment method configured.
- There is not a sufficient account balance to pay for your bills of ECSassociated resources, such as EVS disks and EIPs and there is no other payment method configured.
- After an ECS is deleted, its associated resources (such as EVS disks and EIPs) that are not deleted together with the ECS continuously generate costs.

Impact of Arrears

Yearly/Monthly

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

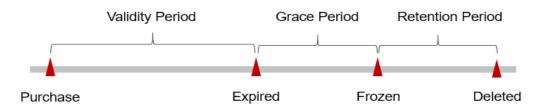
Pay-per-use

If there is no top-up account with sufficient balance and no other payment method configured to pay for the associated resources, such as images, EIPs, EVS disks, and CBR, your account goes into arrears, and the resources enter a grace period. You are still responsible for expenditures generated during the grace period. You can view the charges on the **Billing Center** > **Overview** page.

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

If you do not bring your account balance current before the retention period ends, your resources will be released, and the data cannot be restored.

Figure 7-1 Lifecycle of pay-per-use resources



For details about the grace period and retention period, see What Is a Grace Period of Huawei Cloud? How Long Is It? and What Is a Retention Period of Huawei Cloud? How Long Is It?

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 (Prepaid Direct Customers)**.

If ECSs on a DeH are no longer used, you can delete them and their associated resources to avoid generating further expenditures.

To help make sure your account never falls into arrears, you can configure the **Balance Alert** on the **Overview** page of Billing Center. Then, any time 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, address the issue in a timely manner.

8 Billing Termination

DeH

When you purchase a yearly/monthly DeH, you make a one-time up-front payment. By default, the billing automatically stops when the purchased subscription expires.

- If you no longer need the DeH, but the subscription has not yet expired, you
 can unsubscribe from it. Depending on whether coupons or discounts were
 used for the purchase, Huawei Cloud may issue you a refund. For details
 about unsubscription rules, see Unsubscriptions.
- If you have enabled auto-renewal but no longer wish to automatically renew the subscription, disable it before the auto-renewal date (7 days before the expiration date by default) to avoid unexpected expenditures.

Resources Associated with ECSs

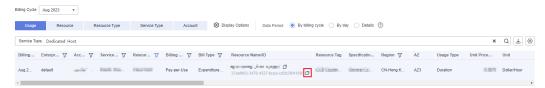
Resources associated with ECSs in a DeH, such as images, EIPs, EVS disks, and CBR, are still charged after the DeH expires. If these resources are no longer used, release them.

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 by performing the following operations:

- **Step 1** Log in to the management console. On the top menu bar, choose **Billing > Bills**. The **Dashboard** page is displayed.
- **Step 2** On the **Expenditure Details** page of the Billing Center, click the icon shown in the following figure to copy the resource ID.

Figure 8-1 Copying the resource ID



- Step 3 Log in to the management console, click in the navigation pane on the left, and choose Compute > Dedicated Host.
 - The DeH list is displayed.
- **Step 4** Use the ID obtained in **Step 2** to search for the DeH.
- **Step 5** Click **More** > **Delete** in the **Operation** column to delete the DeH, and then check whether the DeH is deleted successfully.
 - ----End

9 Cost Management

As you migrate more of your workloads to the cloud, managing cloud costs becomes more important. For example, you may be more concerned with cost management when using DeH. The following describes how to manage costs in terms of cost composition, allocation, analysis, and optimization. Optimizing costs can help you maximize return on investment.

Cost Composition

DeH costs consist of two parts:

- Resource costs: cost of resources and resource packages, depending on the billing items of DeHs. For details, see <u>Billing Items</u>.
- O&M cost: labor costs incurred during the use of DeHs.

Cost Allocation

A good cost accountability system is a prerequisite for cost management. It ensures that departments, business teams, and owners are accountable for their respective cloud costs. An enterprise can allocate cloud costs to different teams or projects so as to have a clear picture of their respective costs.

Huawei Cloud **Cost Center** provides various tools for you to group your costs in different ways. You can experiment with different tools to find out which way works best for you.

By linked account

The enterprise master account can manage costs by grouping the costs of its member accounts by linked account. For details, see **Viewing Costs by Linked Account**.

• By enterprise project

Before allocating costs, enable Enterprise Project Management Service (EPS) and plan your enterprise projects based on your organizational structure or service needs. When purchasing cloud resources, select an enterprise project so that the costs of the resources will be allocated to the selected enterprise project. For details, see Viewing Costs by Enterprise Project.

Figure 9-1 Selecting an enterprise project for a BMS



By cost tag

You use tags to sort your Huawei Cloud resources in a variety of different ways, for example, by purpose, owner, or environment. The following is the process of managing costs by predefined tags (recommended).

Figure 9-2 Adding tags for an ECS



For details, see **Viewing Costs by Cost Tag**.

By cost category

You can use cost categories provided by **Cost Center** to split shared costs. Shared costs are the costs of resources (compute, network, storage, or resource packages) shared across multiple departments or the costs that cannot be directly split by cost tag or enterprise project. These costs are not directly attributable to a singular owner, and they cannot be categorized into a singular cost type. In this case, you can define cost splitting rules to fairly allocate these costs among teams or business units. For details, see **Viewing Costs By Cost Category**.

Cost Analysis

To precisely control and optimize your costs, you need a clear understanding of what parts of your enterprise incurred different costs. **Cost Center** visualizes your original costs and amortized costs using various dimensions and display filters for cost analysis so that you can analyze the trends and drivers of your service usage and costs from a variety of perspectives or within different defined scopes.

You can also use cost anomaly detection provided by **Cost Center** to detect unexpected expenses in a timely manner. In this way, costs can be monitored, analyzed, and traced.

For details, see Performing Cost Analysis to Explore Costs and Usage and Enabling Cost Anomaly Detection to Identify Anomalies.

Cost Optimization

Cost control

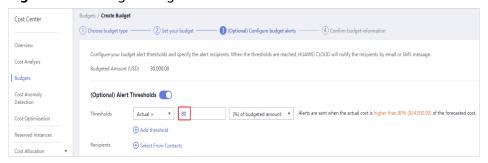
You can create different types of budgets on the **Budgets** page of Cost Center to track your costs against the budgeted amount you specified. If the budget thresholds you defined are reached, Cost Center will send alerts to the recipients you configured. You can also create budget reports and specify recipients to receive budget alerts if any at a frequency you configured. Suppose you want to create a monthly budget of \$2,000 USD for a DeH and expect to receive an alert if the forecasted amount exceeds 80% of the budgeted amount. You can refer to the following budget information.

Figure 9-3 Basic budget information

Service Type ΑII Dedicated Host No data available. OK Cancel Usage Type All Cost Tag ΑII Cost Categories ΑII Enterprise Project ΑII **Business Entity** Include HUAWEI CLOUD Bill Type ΑII Billing Mode Selected1 Q Search (Select all) Yearly/Monthly Pay-per-Use

Figure 9-4 Defining the budget scope

Figure 9-5 Setting a budget alert



For details, see **Enabling Forecasting and Creating Budgets to Track Costs and Usage**.

• Resource rightsizing

Cost Center analyzes your historical CPU and other resource usage to identify idle DeH resources and generate resource rightsizing recommendations. These rightsizing opportunities are places where you can reduce costs. You can also

identify resources with high costs based on the analyses in **Cost Analysis** and use Cloud Eye to monitor resource usage. By doing this, you can determine the causes of high costs and take optimization measures accordingly. You can:

- Monitor resource usage and evaluate whether the current configuration is more than you need, for example, you can monitor the usage of CPUs, memory, EVS disks, and bandwidth.
- Detect idle resources to avoid waste, for example, there may be unattached EVS disks or unbound EIPs.

O&M automation

Huawei Cloud also provides various O&M products to help you improve O&M efficiency and reduce O&M labor costs. The following are examples of such products:

- Auto Scaling: You can automatically and continuously maintains instance clusters that use different billing modes, are distributed across AZs, and have different instance specifications. Use this service when there is a clear distinction between peak and off-peak workloads.
- Auto Launch Group: In just a few clicks, you can deploy instance clusters
 that use different billing modes, are distributed across AZs, and have
 different instance specifications. Use this method when stable compute
 needs to be quickly delivered and spot instances need to be used to
 reduce costs.
- Resource Formation Service: Resource stacks with multiple cloud resources and dependencies can be deployed and maintained with just a few clicks. Use this service to deliver the entire system or clone an environment.
- Application Operations Management: Groups of O&M operations can be defined as services to make it much easier to execute various O&M tasks. Use this service for scheduled O&M, batch O&M, and cross-region O&M.

 $10_{\scriptscriptstyle \mathsf{FAQ}}$

10.1 Do I Need to Pay for ECSs Deployed on My DeHs?

No fees are needed for ECSs on your DeHs. However, if your ECSs have EVS disks attached or EIPs bound, you need to pay for the EVS disks and EIPs you used.

10.2 Can I Purchase DeHs on a Pay-per-Use Basis?

No. Only yearly/monthly DeHs are available.

10.3 What Should I Do When My DeHs Expire? What Should I Do If My Account Is in Arrears?

If you want to continue using your yearly/monthly DeHs, you need to renew them. If a DeH is not renewed after it expires, the DeH is automatically disabled and ECSs on the DeH are automatically stopped.

Follow the instructions described in **Topping Up an Account** to top up your account.