GaussDB

Billing

Issue 01

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Billing Overview

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

Billing Modes

GaussDB provides two billing modes, yearly/monthly billing and pay-per-use billing, to meet requirements in different scenarios.

- Yearly/Monthly: You pay upfront for the amount of time you expect to use the DB instance 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 the DB instance first and then pay as you go.

For more details, see **Overview**.

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

Billing Items

You will be billed for the DB instance, storage space, backup space, and EIP bandwidth. 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**.

• Subscription Renewal

After a yearly/monthly DB instance expires, it cannot run properly. If you want to continue using a DB instance after it expires, you need to renew the DB instance subscription within the specified period. Otherwise, compute and storage resources will be automatically released, and data may be lost.

You can renew your subscriptions manually or automatically. For more details, see **Overview**.

Bills

You can choose **Billing Center** > **Billing** to check the DB instance 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 update your payment method or to top up your account in a timely manner. For details, see **Arrears**.

• Billing Termination

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

• Cost Management

GaussDB costs include resource costs and O&M costs. You can allocate, analyze, and optimize DB instance costs to save more money. For details, see **Cost Management**.

2 Billing Items

Description

You will be billed for the DB instance, storage space, backup space, and EIP bandwidth. For details, see **Table 2-1**.

◯ NOTE

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

Table 2-1 GaussDB billing items

Billing Item	Description	Billing Mode	Formula
*DB instance	Billed by instance specifications, including vCPUs and memory. Computing and storage capabilities vary by the number of vCPUs and memory size.	Yearly/ Monthly and pay-per-use	Unit price of a single node x Required duration x Number of billed nodes The unit price of a single node varies depending on the instance specifications. For details, see section "Specification Price" in GaussDB Pricing Details. NOTE Number of billed nodes = Number of coordinator nodes (CNs) + Number of data nodes (DNs) Independent deployment: If you retain the default configurations for an instance, including three shards (each containing three replicas, namely, three DNs) and three CNs, there will be a total of nine DNs in the instance, and the number of billed nodes is 12 (3 CNs + 9 DNs). HA (1 primary + 2 standby): There are three DNs in an instance, and the number of billed nodes is 3.
*Storage space	Billed by storage type and capacity based on unified standards.	Yearly/ Monthly and pay-per-use	Unit price of the storage space x Required duration x Storage capacity (GB) For details about the unit price of the storage space, see section "Storage Space Price" in GaussDB Pricing Details.

Billing Item	Description	Billing Mode	Formula
Backup space	Billed based on unified standards.	Pay-per-use	Unit price of the backup space x Billed duration x (Backup capacity - Storage capacity) (GB)
			For details about the unit price of the backup space, see section "Backup Storage Price" in GaussDB Pricing Details.
			NOTE
			 The billed duration refers to the length of time the billed backup space was used for.
EIP bandwidth	An EIP is required if a DB instance	Yearly/ Monthly and	Tiered pricing based on fixed bandwidth
bandwidth	needs to access the Internet. Billed by bandwidth, traffic, and the EIP reservation price. • EIP for a yearly/ monthly DB instance: billed by bandwidth. • EIP for a payper-use DB instance: billed by bandwidth, traffic, or shared bandwidth. You are also charged for IP reservation if you do not bind the EIP to any instance.	you can purchase a bandwidth add-on package or a shared traffic package.	 O Mbit/s to 5 Mbit/s (included): billed at a fixed unit price per Mbit/s: billed at a different price per Mbit/s For details about the unit price, see section "Bandwidth Price" in ECS Pricing Details, or see EIP Pricing Details.

3 Billing Modes

3.1 Overview

GaussDB provides two billing modes, yearly/monthly billing and pay-per-use billing, to meet requirements in different scenarios.

- Yearly/Monthly is a prepaid billing mode. 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 mode. You pay as you go and just pay for
 what you use. The DB instance usage is calculated by the second but billed
 every hour. This allows you to adjust resource usage easily. You neither need
 to prepare for resources in advance, nor end up with excessive or insufficient
 preset resources. This mode is typically suitable for scenarios with sudden
 traffic bursts, such as e-commerce flash sales.

Table 3-1 Billing modes

Billing Mode	Yearly/Monthly	Pay-per-use
Payment	Prepaid Billed by the subscription term you purchase.	Postpaid Billed by service duration.
Billing Method	Billed by the subscription term you purchase.	Calculated by the second but billed every hour.
Billing Items	Instance specifications (vCPUs and memory), storage space, backup space, and EIPs	Instance specifications (vCPUs and memory), storage space, backup space, and EIPs

Changing the Billing Mode	Yearly/Monthly can be changed to pay-per-use. The change takes effect only after the yearly/monthly subscription expires. Yearly/Monthly to Pay-per-Use	Pay-per-use can be changed to yearly/monthly. Pay-per-Use to Yearly/ Monthly
Changing the Specifications	Supported	Supported
Scenario	Recommended for resources expected to be in use long-term. A cost-effective option for scenarios where the resource usage duration is predictable.	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 GaussDB instances at discounted prices. This section describes the billing rules for yearly/monthly GaussDB instances.

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 predictable traffic bursts, for example, e-commerce promotions or festivals.
- Workloads with high data security requirements

Billing Items

You are billed for the following items on a yearly/monthly basis.

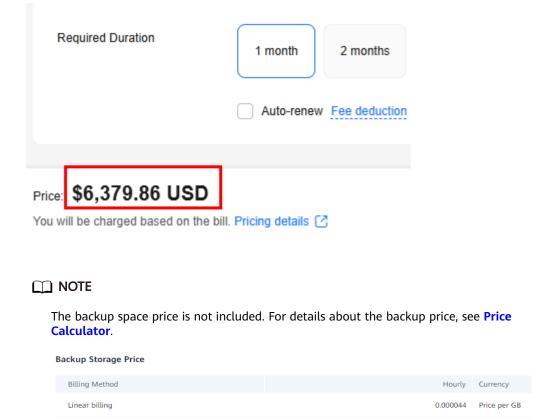
Table 3-2 Items billed on a yearly/monthly basis

Billing Item	Description
DB instance	CNs and DNs are billed on a yearly/monthly basis. Management nodes, including CMSs and GTMs, are not billed.

Billing Item	Description
Storage space	If the actual storage usage exceeds your purchased storage, you will be billed for additional storage on a pay-per-use basis.
(Optional) Backup space	GaussDB provides free backup storage equal to the amount of your purchased storage. After the free backup space is used up, charges are applied based on the backup space pricing details. Pricing is listed on a per-hour basis, but bills are calculated based on the actual usage duration.
EIP bandwidth	GaussDB instances can be accessed through a public network, and traffic fees are generated accordingly. You are not billed for traffic generated through a private network.

Suppose you want to purchase a one-month distributed DB instance with 8 vCPUs and 64 GB of memory, and the instance contains 1 shard, 3 replicas, 1 CN, and 160 GB of storage. At the bottom of the **Buy DB Instance** page shown in **Figure 3-1**, you can view the total price (excluding the backup space price) of the current instance.

Figure 3-1 Example price



Billed Usage Period

A yearly/monthly DB instance is billed for the purchased duration (UTC+8). The billing starts 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 DB instance 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 distributed GaussDB instance (1 shard, 3 replicas, 1 CN, General-enhanced II, 8 vCPUs, 64 GB of memory, and 160 GB of storage) 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:

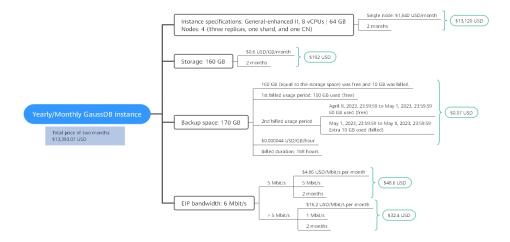
- March 08, 2023, 15:50:04 to April 08, 2023, 23:59:59
- April 08, 2023, 23:59:59 to May 08, 2023, 23:59:59
 - From April 08, 2023, 23:59:59 to May 01, 2023, 23:59:59, 60 GB of free backup space was used.
 - From May 01, 2023, 23:59:59 to May 08, 2023, 23:59:59, another 10 GB of backup space was used, which was billed for 168 hours.

Figure 3-2 shows how the total price is calculated.

NOTICE

The prices in the figure are just examples. The actual prices are those displayed in **GaussDB Pricing Details**.

Figure 3-2 Total price for a yearly/monthly GaussDB instance



Price Change After Specification Change

If the specifications of a yearly/monthly GaussDB instance no longer meet your needs, you can change the specifications on the console. The system will recalculate the price and either bill or refund you the difference.

- If you upgrade your instance specifications, you need to pay the difference in price.
- If you downgrade your instance specifications, Huawei Cloud will refund you the difference.

You are not advised to downgrade your DB instance to lower specifications because instance performance may be affected. Suppose you purchased a one-month centralized GaussDB instance (8 vCPUs | 64 GB) on April 08, 2023 and upgraded the instance specifications to 16 vCPUs | 128 GB on April 18, 2023. The price of the original specifications was \$1,640 USD/month, and that for the new specifications was \$3,280 USD/month. The price difference will be calculated as follows:

Specification upgrade fee = New specification price × Remaining period - Old specification price × Remaining period

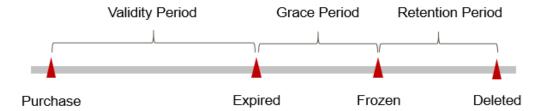
The remaining period is the remaining days of each calendar month divided by the maximum number of days in each calendar month. In this example, Remaining period = 12 (Remaining days in April)/30 (Maximum number of days in April) + 8 (Remaining days in May)/31 (Maximum number of days in May) = 0.6581. Cost of upgrade = \$3,280 USD x 0.6581 - \$1,640 USD x 0.6581 = \$1,079.28 USD

For more details, see Pricing of a Changed Specification.

Impact of Expiration

Figure 3-3 shows the statuses a yearly/monthly GaussDB instance can go through throughout its lifecycle. After a DB instance is purchased, it enters the valid period and runs normally during this period. If the DB instance is not renewed after it expires, before being deleted, it first enters a grace period and then a retention period.

Figure 3-3 Lifecycle of a yearly/monthly GaussDB instance



Expiration Reminder

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

 For a yearly subscription, a reminder is sent 30 days, 15 days, 7 days, 3 days, and 1 day before the resource expires. • For a monthly subscription, a reminder is sent 15 days, 7 days, 3 days, and 1 day before the resource expires.

Impact of Expiration

If your yearly/monthly DB instance 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 DB instance but cannot:

- Change instance specifications
- Change the billing mode from yearly/monthly to pay-per-use
- Unsubscribe from the DB instance

If the yearly/monthly DB instance 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 DB instance while it is in the retention period.

If the yearly/monthly DB instance is not renewed by the time the retention period ends, it will be released and data cannot be restored.

Ⅲ NOTE

- The grace period and retention period are both 15 days.
- For details about renewals, see Overview.

3.3 Pay-per-Use Billing

Pay-per-use billing means you pay nothing up front and are not tied into any contract or commitment. This section describes the billing rules for pay-per-use GaussDB instances.

Scenarios

Pay-per-use billing is good for short-term, bursty, or unpredictable workloads that cannot tolerate any interruptions, such as applications for e-commerce flash sales, temporary testing, and scientific computing.

Billing Items

You are billed for the following items on a pay-per-use basis.

Table 3-3 Items billed on a pay-per-use basis

Billing Item	Description
DB instance	CNs and DNs are billed on a pay-per-use basis. Management nodes, including CMSs and GTMs, are not billed.
Database storage (pay as you use)	Instance storage space.

Billing Item	Description
Backup storage (pay as you	GaussDB provides free backup storage equal to the amount of your purchased storage.
based on the backup space pricing	After the free backup space is used up, charges are applied based on the backup space pricing details. Pricing is listed on a per-hour basis, but bills are calculated based on the actual usage duration.
(Optional) EIP bandwidth	GaussDB instances can be accessed through a public network, and traffic fees are generated accordingly. You are not billed for traffic generated through a private network.

Suppose you want to purchase a pay-per-use distributed GaussDB instance with general-enhanced II specifications, 8 vCPUs, and 64 GB of memory, and the instance contains 1 shard, 3 replicas, 1 CN, and 160 GB of storage. At the bottom of the **Buy DB Instance** page, you can view pricing details (excluding the backup space prices).

Figure 3-4 Example prices

Price: \$13.29 USD /hour

You will be charged based on the bill. Pricing details [2]

The backup space price is not included. For details about the backup price, see the **Product Pricing Details** page of the **price calculator**.



Billed Usage Period

Pay-per-use GaussDB instance usage is calculated by the second and billed every hour (UTC+08:00). The billing starts when the GaussDB instance is launched and ends when the instance is deleted.

It takes a certain time to create a GaussDB instance. The billing starts from the time when the instance was successfully created.

For example, if you purchased a pay-per-use GaussDB instance at 8:45:30 and deleted it at 8:55:30, you are billed for the 600 seconds from 8:45:30 to 8:55:30.

Billing Examples

Suppose you purchased a pay-per-use distributed GaussDB instance at 9:59:30 on April 18, 2023 with general-enhanced II specifications, 8 vCPUs, and 64 GB of memory, and the instance contains 1 shard, 3 replicas, 1 CN, and 160 GB of storage. The billed resources include instance specifications (vCPUs, memory, and nodes), storage space, and backup space. Then you deleted the instance at 10:45:46 on April 18, 2023. The following usage periods will be billed:

- April 18, 2023, 9:00:00 to April 18, 2023, 10:00:00
 Usage of 30 seconds from 9:59:30 to 10:00:00
- April 18, 2023, 10:00:00 to April 18, 2023, 11:00:00
 Usage of 2,746 seconds from 10:00:00 to 10:45:46
 - From April 18, 2023, 10:00:00 to April 18, 2023, 10:45:00, free backup space was used.
 - From April 18, 2023, 10:45:00 to April 18, 2023, 10:45:46, an extra 10 GB of backup space was used, which was billed for 46 seconds.

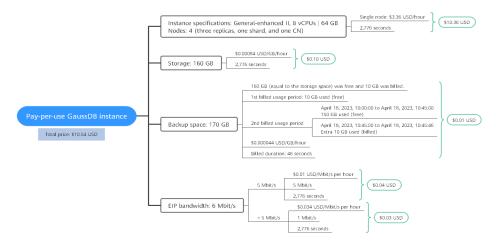
Figure 3-5 shows how the total price is calculated.

NOTICE

The prices in the figure are just examples. The actual prices are those displayed in **GaussDB Pricing Details**.

For pay-per-use billing, decimal numerals on the price calculator are rounded off and are accurate to two decimal places. If the fee is less than \$0.01 USD (after rounding off), \$0.01 USD will be displayed.

Figure 3-5 Total price for a pay-per-use GaussDB instance



Price Change After Specification Change

If you change the specifications of a pay-per-use instance, the original order will become invalid and a new order will be placed. You will be billed based on the new specifications.

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

For example, if you purchased a pay-per-use DB instance (8 vCPUs | 64 GB) at 9:00:00 and changed the instance specifications to 16 vCPUs | 128 GB at 9:30:00, the following items will be billed:

- DB instance (8 vCPUs | 64 GB) usage from 9:00:00 to 9:30:00
- DB instance (16 vCPUs | 128 GB) usage from 9:30:00 to 10:00:00

Impact of Arrears

Figure 3-6 shows the statuses a pay-per-use GaussDB instance can have throughout its lifecycle. After a GaussDB instance is purchased, it enters the validity period and runs normally during this period. If your account goes into arrears, your instance enters a grace period and if no payments are made within the specific time, it enters a retention period.

Figure 3-6 Lifecycle of a pay-per-use GaussDB instance



Arrears Reminder

The system will bill you for pay-per-use resources after each billing cycle ends. If your account goes into arrears, we will notify you (the one who created the Huawei Cloud account) by email, SMS, or in-app message.

Impact of Arrears

Your account may fall into arrears if it cannot cover the bill you need to pay and the pay-per-use instance 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 bills are not paid during the grace period, your pay-per-use resources enter a retention period and get frozen, meaning you cannot perform any operations on them.

If you do not pay the arrears within the retention period, your instance will be released, and data will be lost.

■ NOTE

- The grace period and retention period are both 15 days.
- For details about top-up, see **Topping Up an Account**.

4 Billing Examples

Billing Scenario

A user purchased a pay-per-use distributed GaussDB instance at 8:30:00 on March 20, 2023. The instance configuration is as follows:

- Instance specifications: General-enhanced II, 8 vCPUs | 64 GB, one shard, three replicas, and one CN
- Storage space: 160 GBEIP bandwidth: 6 Mbit/s

After a period of time, the user found that the current DB instance specifications no longer met service requirements and updated the specifications to 16 vCPUs | 128 GB at 10:00:00 on March 20, 2023. Since the user wanted to use the DB instance long term, the user then changed the instance to yearly/monthly billing with a one-month duration at 10:30:00 on the same day. So how much will the user be billed for this DB instance in March and April?

Billing Analysis

The total price of this DB instance involves both pay-per-use and yearly/monthly usage:

- Pay-per-use usage: 8:30:00 to 10:30:00 on March 20, 2023
 - 8:30:00 to 10:00:00 on March 20, 2023
 - Instance specifications: General-enhanced II, 8 vCPUs | 64 GB, one shard, three replicas, and one CN
 - Used storage space: 40 GB
 - Used backup space: 40 GB
 - EIP bandwidth: 6 Mbit/s
 - 10:00:00 to 10:30:00 on March 20, 2023
 - Instance specifications: General-enhanced II, 16 vCPUs | 128 GB, one shard, three replicas, and one CN

Used storage space: 20 GB

Used backup space: 30 GB

EIP bandwidth: 6 Mbit/s

 Yearly/Monthly usage: 10:30:00 on March 20, 2023 to 23:59:59 on April 20, 2023

 Instance specifications: General-enhanced II, 16 vCPUs | 128 GB, one shard, three replicas, and one CN

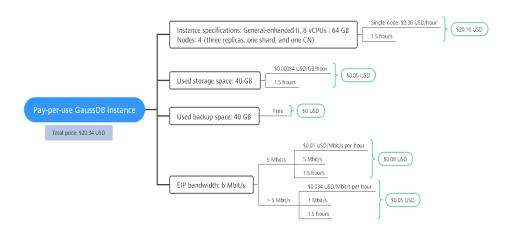
- Used storage space: 80 GB

Used backup space: 100 GB (billed on a pay-per-use basis from 23:59:59 on April 19, 2023 to 23:59:59 on April 20, 2023)

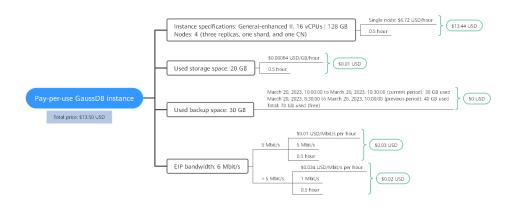
EIP bandwidth: 6 Mbit/sBilled duration: one month

Pay-per-use

From 8:30:00 to 10:00:00 on March 20, 2023, an instance with specifications 8 vCPUs | 64 GB was used for 1.5 hours, so the price would be calculated as follows.

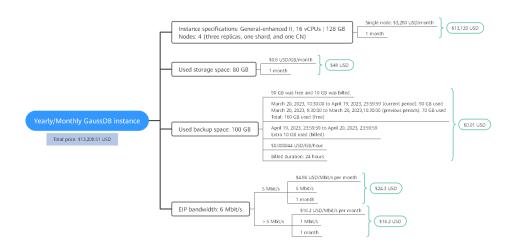


From 10:00:00 to 10:30:00 on March 20, 2023, an instance with specifications 16 vCPUs | 128 GB was used for 0.5 hour, so the price would be calculated as follows.



Yearly/Monthly

From 10:30:00 on March 20, 2023 to 23:59:59 on April 20, 2023, a DB instance purchased using yearly/monthly billing was used for one month, so the price would be calculated as follows.



From March to April, the total price of this GaussDB instance is \$13,242.35 USD (20.34 + 13.50 + 13,208.51).

5 Billing Mode Changes

5.1 Overview

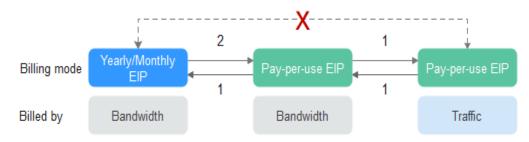
You can change the billing mode if it no longer meets your needs. **Table 5-1** lists the changeable GaussDB billing items.

Table 5-1 Changeable GaussDB billing items

Billing Item	Change Description	Reference
DB instance specifications (vCPUs and memory)	Changing the billing mode of a GaussDB instance includes the changes to compute resources (vCPUs and memory), the storage space, and backup space.	 Pay-per-Use to Yearly/Monthly Yearly/Monthly to Pay-per-Use
	 Change from pay-per-use to yearly/monthly to enjoy lower prices. 	
	 Change from yearly/monthly to pay-per-use to use the GaussDB instance more flexibly. 	
	NOTE Such a change takes effect only after the yearly/monthly subscription ends.	

Billing Item	Change Description	Reference
EIP	 A yearly/monthly EIP can be changed to a pay-per-use EIP billed by bandwidth after the yearly/monthly subscription ends. 	 Pay-per-Use to Yearly/Monthly Yearly/Monthly to Pay-per-Use
	 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. 	
	For details, see Figure 5-1 .	

Figure 5-1 EIP billing mode change in GaussDB



- 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.

5.2 Pay-per-Use to Yearly/Monthly

If you have a pay-per-use DB instance 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 bought a pay-per-use DB instance at 15:29:16 on April 18, 2023 and changed it to yearly/monthly billing at 16:30:30 on the same day. After you paid for the order, yearly/monthly billing was applied immediately. On the **Billing Center** > **Billing** page, three line items were generated, one for each of the hours the instance was used on a pay-per-use basis, and one for the yearly/monthly subscription:

• 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 at 16:30:30 on April 18, 2023

Constraints

Resources such as EIPs that are used by an instance may not support the change with this instance. For details about their billing mode change rules and handling methods, see **Table 5-2**.

Table 5-2 EIP billing mode change rules

Billed By	Bandwid th Type	Change to Yearly/ Monthly Billing with the DB Instance	Handling Measure
Bandwidth	Dedicate d	Not supported	Change the EIP to yearly/monthly billing on the EIP console.
			For details, see Changing EIP Billing Mode .
Traffic	Dedicate d	Not supported	An EIP that is billed by traffic on a pay-per-use basis cannot be directly changed to be billed on a yearly/monthly basis. To change this:
			Change the EIP to be billed by bandwidth on a pay-per-use basis.
			Change the EIP to be billed on a yearly/monthly basis.
			For details, see Changing EIP Billing Mode .

Precautions

- The billing mode of the instance must be pay-per-use.
- Pay-per-use instances in any of the following statuses cannot be changed to yearly/monthly instances: frozen, creation failed, changing instance specifications, and scaling up.
- Changing the billing mode from pay-per-use to yearly/monthly does not affect services.

Changing the Billing Mode of a Single DB Instance

- Step 1 Log in to the management console.
- **Step 2** Click in the upper left corner and select a region and a project.

- Step 3 Click in the upper left corner of the page and choose Databases > GaussDB. The GaussDB console is displayed.
- **Step 4** On the **Instances** page, locate the target pay-per-use instance and choose **More** > **Change to Yearly/Monthly** in the **Operation** column.
- **Step 5** Select how many months you want to renew the subscription for. The minimum duration is one month.
 - If you do not need to modify your settings, click **Pay** to go to the payment page.
 - If you are not sure about the settings, you can click **Submit & Pay Later**. The system will reserve your order. You can choose **Billing Center > My Orders** in the upper right corner and pay or cancel the order.
- **Step 6** Select a payment method and click **Confirm**.
- **Step 7** View the result on the **Instances** page.

In the upper right corner of the instance list, click to refresh the list. After the change completes, the instance status will change to **Available** and the billing mode will change to **Yearly/Monthly**.

----End

Changing the Billing Mode of DB Instances in Batches

□ NOTE

Only pay-per-use instances can be changed to yearly/monthly instances. The status of pay-per-use DB instances must be **Available** or **Abnormal**.

- Step 1 Log in to the management console.
- **Step 2** Click in the upper left corner and select a region and a project.
- Step 3 Click in the upper left corner of the page and choose Databases > GaussDB. The GaussDB console is displayed.
- **Step 4** On the **Instances** page, select all the target pay-per-use DB instances and click **Change to Yearly/Monthly** above the instance list.
- **Step 5** Select how many months you want to renew the subscription for. The minimum duration is one month.
 - If you do not need to modify your settings, click **Pay** to go to the payment page.
 - If you are not sure about the settings, you can click Submit & Pay Later. The
 system will reserve your order. You can choose Billing Center > My Orders in
 the upper right corner and pay or cancel the order.
- **Step 6** Select a payment method and click **Confirm**.
- **Step 7** View the results on the **Instances** page.

In the upper right corner of the instance list, click to refresh the list. After the change completes, the instance status will change to **Available** and the billing mode will change to **Yearly/Monthly**.

----End

5.3 Yearly/Monthly to Pay-per-Use

After creating a yearly/monthly DB instance, you can change it to pay-per-use for more flexibility, and you can recoup part of what you paid for the subscription.

Suppose you bought a yearly/monthly DB instance at 15:29:16 on April 18, 2023 and changed it to pay-per-use billing at 16:30:00 on May 18, 2023. On the **Billing Center > Billing** page, bill information is generated as follows:

- Yearly/Monthly expenditures for 15:29:16 on April 18 to 23:59:59 on May 18, 2023
- Pay-per-use expenditures for 23:59:59 on May 18, 2023 to the end time of pay-per-use billing. A bill was generated every hour.

Pay-per-use billing will be applied only after the yearly/monthly billing duration ends. Autorenewal will not be in effect.

Constraints

Resources such as EIPs that are used by an instance may not support the change with this instance. For details about their billing mode change rules and handling methods, see **Table 5-3**.

Table 5-3 EIP billing mode change rules

Billed By	Bandwidth Type	Change to Pay-per- Use Billing with the DB Instance	Handling Measure
Bandwidth	Dedicated	Not supported	Directly change it on the console. For details, see Changing EIP Billing Mode .
Traffic	Dedicated	Not supported	An EIP billed on a yearly/monthly basis cannot be directly changed to be billed by traffic on a pay-per-use basis. To change this:
			Change the EIP to be billed by bandwidth on a pay-per-use basis.
			2. Change the EIP to be billed by traffic on a pay-per-use basis.
			For details, see Changing EIP Billing Mode .

Precautions

The billing mode can only be changed from yearly/monthly to pay-per-use for DB instances whose order status is **Provisioned**. You can view the order status on the **Billing Center** > **Renewals** page.

Changing the Billing Mode of a Single DB Instance

- Step 1 Log in to the management console.
- **Step 2** Click on the upper left corner and select a region and a project.
- **Step 3** Click in the upper left corner of the page and choose **Databases** > **GaussDB**. The GaussDB console is displayed.
- **Step 4** On the **Instances** page, locate the target yearly/monthly DB instance and choose **More** > **Change to Pay-per-use** in the **Operation** column.
- **Step 5** On the displayed page, change the billing mode of the instance.
- **Step 6** View the result on the **Instances** page.

In the upper right corner of the instance list, click to refresh the list. After the change completes, the instance status will change to **Available** and the billing mode will change to **Pay-per-use**.

----End

Changing the Billing Mode of DB Instances in Batches

Ⅲ NOTE

Only yearly/monthly DB instances can be changed to pay-per-use.

The status of DB instances must be Available or Abnormal.

The pay-per-use billing mode will be applied only after the yearly/monthly billed duration ends, and auto-renewal will be not in effect.

- Step 1 Log in to the management console.
- **Step 2** Click $^{\bigcirc}$ in the upper left corner and select a region and a project.
- Step 3 Click in the upper left corner of the page and choose Databases > GaussDB. The GaussDB console is displayed.
- **Step 4** On the **Instances** page, select all the target yearly/monthly DB instances and click **Change to Pay-per-Use** above the instance list.
- **Step 5** On the displayed page, change the billing mode of the instances.
- **Step 6** View the results on the **Instances** page.

In the upper right corner of the instance list, click to refresh the list. After the change completes, the instance status will change to **Available** and the billing mode will change to **Pay-per-use**.

----End

6 Subscription Renewal

6.1 Overview

When to Renew Subscriptions

If a yearly/monthly DB instance is about to expire but you want to continue using it, you need to renew the instance subscription within a specified period, or resources, such as vCPUs and memory, will be automatically released, and data will be lost and cannot be restored.

Only yearly/monthly instance subscriptions can be renewed. Ensure that your account has a valid payment method configured or a top-up account with a sufficient balance. Pay-per-use instances do not require renewal.

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

How to Renew Subscriptions

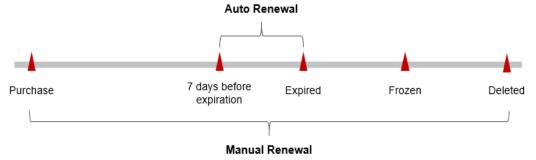
You can renew a yearly/monthly instance manually or automatically.

Table 6-1 Renewing a yearly/monthly instance

Method	Description
Manually Renewing a GaussDB Instance	You can renew a yearly/monthly GaussDB instance anytime on the console before it is automatically deleted.
Auto- renewing a GaussDB Instance	You can enable auto-renewal to automatically renew the DB instance 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 DB instance based on the phase the instance is currently in.

Figure 6-1 Selecting a renewal method based on the instance's current phase



- A GaussDB instance is in the available state after it is provisioned.
- When an instance subscription expires, the instance status will change to **Expired**.
- If an expired GaussDB instance is not renewed, it enters a grace period. If it is not renewed by the time the grace period expires, the instance will be frozen and enter a retention period.
- If you do not renew the subscription before the retention period expires, your resources will be automatically deleted.

The grace period and retention period are both 15 days.

You can enable auto-renewal any time before a GaussDB instance 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.

6.2 Manually Renewing a GaussDB Instance

You can renew a yearly/monthly GaussDB instance anytime on the console before it is automatically deleted.

Renewing a Subscription on the Console

- Step 1 Log in to the management console.
- **Step 2** Click on the upper left corner and select a region and a project.
- Step 3 Click in the upper left corner of the page and choose Databases > GaussDB. The GaussDB console is displayed.
- **Step 4** On the **Instances** page, locate the target yearly/monthly DB instance and choose **More** > **Renew** in the **Operation** column.

Alternatively, click the DB instance name to go to the **Basic Information** page. In the **Billing Information** area, click **Renew** on the right of **Billing Mode**.

Figure 6-2 Renewing a yearly/monthly instance

Billing Information Billing Mode Yearly/Monthly Renew Enable Auto-Renewal

- Step 5 On the Renew page, 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 for, the renewal is complete.

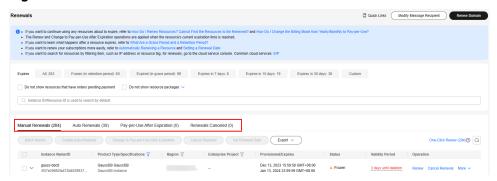
----End

Renewing a Subscription in Billing Center

- **Step 1** Go to the **Renewals** page.
- **Step 2** Set the search criteria.

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

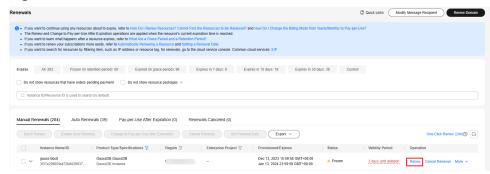
Figure 6-3 Renewals



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

- **Step 3** Manually renew resources.
 - Individual renewal: Click **Renew** in the **Operation** column for the desired resource.

Figure 6-4 Individual renewal



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

Figure 6-5 Batch renewal



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

----End

Setting the Same Renewal Day for Yearly/Monthly Resources

If the DB instances 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 6-6, a user sets the same renewal day for two resources that will expire at different dates.

Figure 6-6 Setting the same renewal day for resources with different expiry dates



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

6.3 Auto-renewing a GaussDB Instance

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

- The auto-renewal period of a GaussDB instance varies depending on how you enable auto-renewal.
- You can enable auto-renewal any time before a GaussDB instance 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 DB instance 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 details, see Auto-Renewal Rules.

Prerequisites

The yearly/monthly DB instance is not expired.

Enabling Auto-Renewal During Purchase

You can enable auto-renewal on the GaussDB instance purchase page, as shown in **Figure 6-7**. For details, see **Buying an Instance**.

Figure 6-7 Enabling auto-renewal



If you enable auto-renewal when buying a GaussDB instance, the auto-renewal periods are as follows:

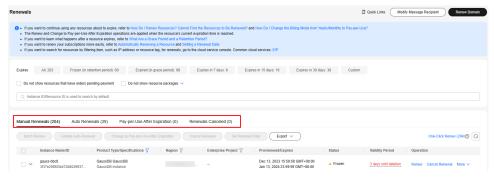
- Monthly billing: Your subscription will be renewed each month.
- Yearly billing: Your subscription will be renewed each year.

Enabling Auto-Renewal on the Renewals Page

- **Step 1** Go to the **Renewals** page.
- **Step 2** Set the search criteria.

- You can view the resources for which auto-renewal has been enabled on the **Auto Renewals** page.
- You can enable auto-renewal for resources on the **Manual Renewals**, **Payper-Use After Expiration**, and **Renewals Canceled** pages.

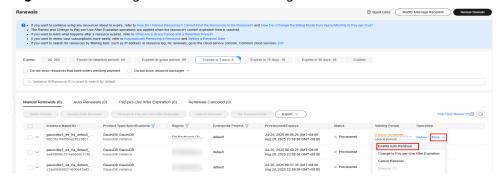
Figure 6-8 Renewals



Step 3 Enable auto-renewal for yearly/monthly instances.

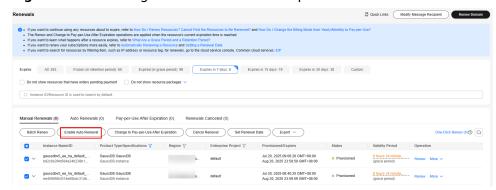
 Enabling auto-renewal for a single instance: Locate the GaussDB instance that you want to enable auto-renewal for and choose More > Enable Auto-Renew in the Operation column.

Figure 6-9 Enabling auto-renewal for a single instance



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

Figure 6-10 Enabling auto-renewal for multiple instances



Step 4 Select a renewal period, specify the auto-renewal times, and click **Pay**.

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 set **New Auto-Renew Period** to **3 months** and **Auto-renewals** to **Unlimited**, your subscription will be automatically renewed for three months before it expires.

----End

7 Bills

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

Billing Generation

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

A pay-per-use instance is billed by the hour, day, or month, depending on the instance's usage type. Pay-per-use GaussDB instances are billed by the hour.

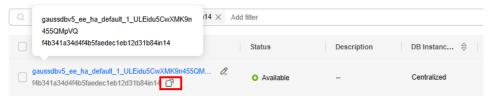
You are not charged immediately after a record is generated. For example, if a pay-per-use DB instance (which is billed on an hourly basis) is deleted at 08:30, you will still have expenditures for the 08:00 to 09:00 hour, but you will not likely be billed for the 08:00 to 09:00 hour until about 10:00. 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

[Method 1: Use the instance ID to search for a bill.]

- Step 1 Log in to the management console.
- **Step 2** Click in the upper left corner and select a region and a project.
- Step 3 Click in the upper left corner of the page and choose Databases > GaussDB. The GaussDB console is displayed.
- **Step 4** On the **Instances** page, click the icon shown in the figure below to copy the ID of the target instance.

Figure 7-1 Copying the instance ID



7 Bills

- **Step 5** Choose **Billing Center > Billing > Expenditure Details**.
- **Step 6** On the displayed page, select **Resource ID** as the filter, paste the resource ID obtained in **Step 4**, and click Q to search for the bill of the resource.

----End

[Method 2: Use the instance name to search for a bill.]

- Step 1 Log in to the management console.
- **Step 2** Click on the upper left corner and select a region and a project.
- **Step 3** Click in the upper left corner of the page and choose **Databases** > **GaussDB**. The GaussDB console is displayed.
- **Step 4** On the **Instances** page, click the name of the target instance. The **Basic Information** page is displayed.
- **Step 5** Click the icon shown in the figure below to copy the instance name.

Figure 7-2 Copying the instance name



- **Step 6** Choose **Billing Center > Billing > Expenditure Details**.
- **Step 7** On the displayed page, select **Resource Name** as the filter, paste the resource name obtained in **Step 5**, and click Q to search for the bill of the resource.

----End

Scenario Example: Checking the Usage Consistency

Assume that you purchased a pay-per-use GaussDB instance at 10:09:06 on April 8, 2023 and deleted it later that day, at 12:09:06.

GaussDB transaction records

Pay-per-use DB instance usage is calculated by the second but billed on an hourly basis. You can check the transaction records against the actual usage. The billed resources are billed separately. For details, see **Table 7-1** (taking storage as an example).

Table 7-1 GaussDB instance transaction records

Service	GaussDB
Туре	

Resour ce Type	GaussDB storage
Billing Mode	Pay-per-use
Expend iture Time	For the period of time from 10:09:06 to 12:09:06 on April 8, 2023, 6 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 = Usage x Unit price x Capacity In this example, 480 GB of storage was used by the GaussDB instance for 3,054 seconds in the first period, and the unit price is \$0.00084 USD/GB/hour. The list price for the first period = (3054 ÷ 3600) x 0.00084 x 480 = \$0.342048 USD. Similarly, you can calculate the GaussDB list price for the other periods. The unit price of GaussDB resources can be obtained on the GaussDB Pricing Details page.
Discou nted Amoun t	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.
Truncat ed Amoun t	The billing of Huawei Cloud 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 \$0.002048 USD.
Amoun t 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 \$0.34 USD (0.342048 - 0 - 0.002048).

• GaussDB instance 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 7-2** illustrates the DB instance bill details, which can be used to check against the actual usage (taking storage as an example).

Table 7-2 GaussDB instance bill details

Service Type	GaussDB
Resour ce Type	GaussDB storage

Billing Mode	Pay-per-use
Resour ce Name/I D	DB instance name and ID Example: gauss-e4c4, 41986722eb1041f886d28a90fd610067in14
Specific ations	Storage space type and capacity Example: Ultra-high I/O, 480 GB
Usage Type	Duration for a pay-per-use DB instance
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. You can search for the unit price for pay-per-use GaussDB
I I mit	instances on GaussDB Pricing Details.
Unit	USD/GB/hour, which is displayed in GaussDB Pricing Details
Usage	Depends on the unit of the unit price, which is USD/GB/hour. Storage usage is billed by the hour. Example: 2 hours (from 10:09:06 on April 8, 2023)
Usage Unit	Hour
List Price	List price on the official website = Usage x Unit price x Capacity In this example, 480 GB of storage was used for 2 hours, and the unit price is \$0.00084 USD/GB/hour. List price = 2 x 0.00084 x 480 = \$0.8064 USD. The unit price of GaussDB resources can be obtained on the GaussDB Pricing Details page.
Discou nted Amoun t	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.
Amoun t Due	Amount that should be paid for used cloud services after discounts are applied.

8 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. You will need to update your payment method or to top up your account in a timely manner if you want to continue using your cloud services.

Arrears Reason

If your instance is not billed at a yearly/monthly basis, your account falls into arrears any time your configured payment method is unable to pay for the used resources on the pay-per-use basis.

Arrears Impact

Yearly/Monthly

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

Pay-per-use

If your configured payment method is unable to pay a bill for pay-per-use GaussDB instances, the instances 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 and pay any past due balance as needed.

If bills are not paid during the grace period, your pay-per-use resources enter a retention period and get frozen, meaning you cannot perform any operations on them.

After the retention period ends, the compute resources (vCPUs and memory) and EIPs will be released and data cannot be restored.

Figure 8-1 Lifecycle of a pay-per-use GaussDB instance



The grace period and retention period are both 15 days.

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 **Top-Up and Payment**.

If a GaussDB instance is no longer used, you can delete it 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 the Billing Center. Then, any time an expenditure quota drops to below the threshold you specify, Huawei Cloud automatically notifies you by SMS or email.

9 Billing Termination

Yearly/Monthly Resources

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

- If you no longer need a resource, but the subscription has not yet expired, you
 can unsubscribe from it. Depending on what coupons 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.

Pay-per-Use Resources

If pay-per-use resources, for example, pay-per-use GaussDB instances, are no longer required, delete them in a timely manner.

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.

[Method 1: Use the resource ID in the bill to search for a resource.]

- Step 1 Log in to the management console.
- **Step 2** Click on the upper left corner and select a region and a project.
- **Step 3** Choose **Billing Center > Billing > Expenditure Details**.
- **Step 4** On the displayed page, locate the row containing the target resource and copy the resource ID.

Figure 9-1 Copying the resource ID



- **Step 5** Click in the upper left corner of the page and choose **Databases** > **GaussDB**. The GaussDB console is displayed.
- Step 6 Select DB Instance ID as the filter, enter the resource ID obtained in Step 4, and click \bigcirc to search for the resource.

Figure 9-2 Searching for the resource



Step 7 Click **More** > **Delete** in the **Operation** column to delete the target DB instance. Ensure that the resource is not found in the list.

Ⅲ 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 DB instance (which 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

[Method 2: Use the resource name in the bill to search for a resource.]

- Step 1 Log in to the management console.
- **Step 2** Click in the upper left corner and select a region and a project.
- **Step 3** On the top menu bar, choose **Billing & Costs** > **Bills**. The **Bills** page is displayed.
- **Step 4** Choose **Transactions and Detailed Bills** and click **Bill Details**. From there, click the icon shown in the following figure to copy the resource name.

Figure 9-3 Copying the resource name



- **Step 5** Click in the upper left corner of the page and choose **Databases** > **GaussDB**. The GaussDB console is displayed.
- **Step 6** Enter the name of the DB instance copied in **Step 4** in the search box and click Q

Figure 9-4 Searching for the resource



Step 7 Click **More** > **Delete** in the **Operation** column to delete the target DB instance. Ensure that the resource is not found in the list.

Ⅲ 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 DB instance (which 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

10 Cost Management

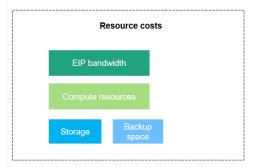
As you migrate more of your workloads to the cloud, managing cloud costs becomes more important. For example, you may be more concerned with cost management when using GaussDB instances. The following describes how to manage costs in terms of cost composition, allocation, analysis, and optimization.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

Cost Composition

GaussDB instance costs consist of two parts:

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

Figure 10-1 GaussDB instance costs





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 costs in different ways. You can experiment with these tools and find a way that 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 10-2 Selecting an enterprise project for a DB instance



By cost tag

You can 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 10-3 Adding tags for a DB instance



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 **Allocating 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 Making 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 pay-per-use DB instances 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 10-4 Basic budget information

Specify Budget Name

Daily

Budget Duration ②

GaussDB-2000 Configure Budget Details Reset Period ②

Monthly

Budget evaluation begins at 00:00 GMT+08:00 on the 1st day of the start month and will be reset to zero at 00:00 GMT+08:00 on the 1st day of each month moving forward

Quarterly

Yearly



Dynamic

Budgeted Amount (USD)

2000

Fixed

Last month's cost: \$608.60 USD

Monthly

Figure 10-5 Defining the budget scope

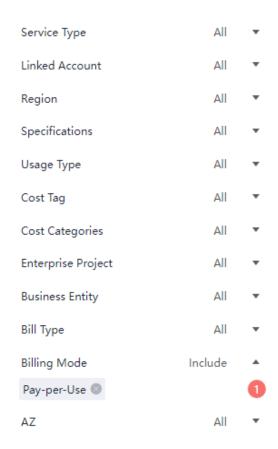
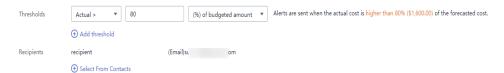


Figure 10-6 Setting a budget alert



For details, see Creating Forecasts and Budgets to Track Costs and Usage.

• Resource rightsizing

Cost Center analyzes your historical CPU and other resource usage to identify idle DB instance 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 on the **Cost Analysis** page 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.
- Identify idle resources, for example, there may be unattached EVS disks or unbound EIPs.

• Billing mode selection

Different types of services have different requirements on resource usage periods, so the most economical billing mode for one resource may not be the best option for another resource.

- For mature services that tend to be stable for the long term, select the yearly/monthly billing.
- For short-term, unpredictable services that experience traffic bursts and cannot afford to be interrupted, select the pay-per-use billing.