

Log Tank Service

Billing

Issue 01
Date 2023-09-14



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1 Billing Description

This document describes the billing modes, billing items, renewals, and arrears of Log Tank Service (LTS).

NOTE

For pricing details, go to [Price Calculator](#).

- **Billing mode**

Log Tank Service (LTS) supports pay-per-use billing, which is a postpaid mode. You are charged based on the actual usage duration of LTS. For details, see [Overview](#).

- **Billing items**

The billing items of LTS include the log read/write traffic, log index traffic, and log volume. For details about the billing factors and formulas for each billing item, see [Billing Items](#).

For more information about the billing samples in different scenarios and the billing process for each billing item in different billing modes, see [Billing Examples](#).

- **Bills**

You can choose **Billing Center** > **Billing** to check the LTS transactions and bills. For details, see [Bills](#).

- **Arrears**

Your account goes into arrears when the balance is less than the bill to be settled. To continue using your cloud services, top up your account in time. For details, see [Arrears](#).

- **Stopping billing**

When LTS stops reporting logs, billing on traffic (log read/write traffic and log index traffic) will stop. Billing on log volumes will not stop until all stored logs are aged. For details, see [Stopping Billing](#).

- **Cost management**

LTS costs include costs of ownership and O&M. Optimize costs in terms of cost collection, resource optimization, upgrade, cost saving awareness, and automatic O&M. For details, see [Cost Management](#).

2 Billing Modes

2.1 Overview

Cloud service logs adopt pay-per-use billing. You are charged based on the actual log read/write traffic, log index traffic, and log volume of cloud service logs.

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.

2.2 Pay-per-Use

Pay-per-use is a billing mode in which you pay after using the service. This mode is recommended if you do not need any prepayment or long-term commitment. This section describes the billing rules for pay-per-use LTS.

Application Scenarios

LTS collects logs for unified management, and displays them on the LTS console in an intuitive and orderly manner. You can transfer logs for long-term storage.

Billing Items

You are charged based on the actual log read/write traffic, log index traffic, and log volume.

Table 2-1 Billing items

| Billing Item | Billing Description |
|------------------------|---|
| Log read/write traffic | Log transmission traffic |
| Log index traffic | Log search depends on indexes. Full-text index is enabled by default. |

| Billing Item | Billing Description |
|--------------|---|
| Log volume | The log storage duration ranges from 1 to 365 days and defaults to 30 days. |

Billing Cycle

In pay-per-use mode, LTS resources are billed by hour. Fees are settled on the hour (UTC+8). Once settlement is complete, a new billing cycle starts.

For example, if log reporting starts at 8:45:30 and then stops at 9:45:30, CDRs will be reported in two billing cycles: 8:00:00–8:59:59 and 9:00:00–9:59:59. (If the free quota does not exceed 500 MB/month, no CDR is reported.)

Billing Modes

Cloud service logs adopt pay-per-use billing. Fees are settled based on the actual usage of each billing item. You can use the service first and pay for it. A certain free quota is provided monthly.

NOTE

The free quota is provided based on the Huawei account level and can be shared by all LTS log groups under the account.

Impact of Arrears

Arrears alert

The system will deduct fees for pay-per-use resources at the end of each billing cycle. You will be notified by email, SMS, or internal messages when your account is in arrears.

Impact of arrears

After the account is in arrears, logs cannot be reported and LTS is unavailable.

NOTE

For details, see [Topping Up an Account](#).

3 Billing Items

Description

The billing items of LTS include the log read/write traffic, log index traffic, and log volume. For details, see [Table 3-1](#).

Table 3-1 Billing items

| Category | Item | Description | Billing Mode | Free Quota |
|----------|------------------------|---|---|--------------|
| Traffic | Log read/write traffic | <p>Includes write traffic and read traffic:</p> <ul style="list-style-type: none">• Write traffic: When the compressed data is uploaded to LTS, the write traffic is billed based on the amount of transmitted data. For example, if 5 GB data is uploaded to LTS, 1 GB write traffic (compression rate: 20%) will be generated.• Read traffic: Read traffic is not counted and is free of charge. | Pay-per-use: Read and write traffic fee = Write traffic (GB, 20% compression rate) x Unit price per GB | 500 MB/month |

| Category | Item | Description | Billing Mode | Free Quota |
|----------|-------------------|--|--|---------------------|
| | Log index traffic | <p>Details are as follows:</p> <ul style="list-style-type: none"> • By default, full-text indexes are created for raw logs. The index traffic is billed based on the index data volume generated by uncompressed logs. • Index traffic is billed at a time when data is written, that is, full-text index traffic. • For a field for which both a full-text index and a field index are constructed, index traffic is billed only once, that is, full-text index traffic. • When the full-text index is disabled and only the field index is enabled, fields of long and float types are not counted in the index traffic. The index traffic occupied by each field value is 8 bytes. If the type is string, the log field name (Key) and field value (Value) are stored as the text type, and the field name and value are included in the index traffic. Field indexes can be used to reduce index traffic fees. <p>Examples:</p> <ol style="list-style-type: none"> 1. If an index (string type) is set for the request_uri field and the field value is /request/path, both request_uri and /request/path are counted in the index traffic. 2. If an index (long type) is set for the status field and the field value is 400, status is not counted in the index traffic. The index traffic of 400 is 8 bytes. | <p>Pay-per-use: Log index fee = Index traffic (GB) x Unit price per GB</p> | <p>500 MB/month</p> |

| Category | Item | Description | Billing Mode | Free Quota |
|----------|------------|--|--|--------------|
| | | <p>NOTE This function is now under internal testing by some users. It will be available soon for all users.</p> <p>Examples:</p> <ul style="list-style-type: none"> • If 10 GB raw logs are written and the full-text index is enabled, the 10 GB index traffic is billed. • For example, if 10 GB raw logs are written and the index for two fields is enabled, the data volume is 5 GB, and the 5 GB index traffic is billed. • If 10 GB raw logs are written and the index for two fields is enabled, the 10 GB index traffic is billed. | | |
| Storage | Log volume | <p>Log volume generated when raw logs (backup and compressed logs) and logs are indexed (uncompressed logs).</p> <p>Example: If 10 GB raw logs are uploaded and the full-text index is enabled, the log volume of raw logs (backup and compressed logs) and indexed logs is 10 GB.</p> | Pay-per-use: Log volume fee = Log volume (GB) x Unit price per GB | 500 MB/month |

 **NOTE**

To avoid extra expenses, you can configure log collection to stop when the quota runs out on the **Configuration Center** page. For details, see [Configuration Center](#).

Billing Examples

The full-text index application scenario is used as an example.

NOTICE

The prices mentioned in the figure are only for reference. For details, see [Price Calculator](#).

Assume that you have a server generating 100 GB raw logs every day, full-text index is enabled, and logs are retained for 30 days (the earliest logs are deleted first).

You want to analyze daily logs using LTS for one month. Billing details are shown in the following table.

Table 3-2 Billing details (full-text index)

| Item | Description | Monthly Usage | Unit Price | Monthly Billing |
|--------------------|--|---------------|------------------------|--|
| Read/Write traffic | Daily read/write traffic: 100 GB/5 (compression rate) = 20 GB. Accumulated read and write traffic for 30 days: 20 GB x 30 = 600 GB. | 600 GB | \$0.05 USD/GB | $(600 \text{ GB} - 500 \text{ MB}/1024) \times 0.05 = \29.98 USD |
| Index traffic | 100 GB x 30 = 3000 GB | 3000 GB | \$0.08 USD/GB | $(3000 \text{ GB} - 500 \text{ MB free quota}/1024) \times 0.08 = \239.96 USD |
| Storage space | Log volume = 100 GB/day x 30 days = 3000 GB | 3000 GB | \$0.000125 USD/GB-hour | $(3000 \text{ GB} - 500 \text{ MB free quota}/1024) \times 0.000125 \times 24 \text{ hours} \times 30 \text{ days} = \269.96 USD |

4 Billing Examples

Billing Scenario 1: Free of Charge

LTS provides a free quota of 500 MB/month.

Assume that you have one server that generates 10 MB raw logs per day, full-text index is enabled, and logs are stored for seven days. (Only logs of the past seven days are stored. Logs of the first day are deleted on the eighth day.) After using LTS for one month, you want to use LTS to analyze daily logs.

Billing Analysis: Free of Charge

The billing details in this scenario are described in [Table 4-1](#).

NOTICE

The prices in the table are only examples. The actual prices are subject to those in [Price Calculator](#).

Table 4-1 Billing details (free of charge)

| Billing Item | Description | Monthly Usage | Monthly Billing |
|--------------------|---|---------------|-----------------|
| Read/Write traffic | Daily read/write traffic: 10/5 (compression rate) = 2 MB. Accumulated read and write traffic for 30 days: 30 x 2 = 60 MB. | 60 MB | Free |
| Index traffic | Accumulated index traffic for 30 days: 10 x 30 = 300 MB | 300 MB | Free |
| Storage space | Log volume = 7 x 10 MB = 70 MB | 70 MB | Free |

Billing Scenario 2: Disabling Full-Text Index and Enabling the Index Field

Assume that you have one server that generates 100 GB raw logs per day, full-text index is disabled, logs are written to LTS, and the index for five fields is enabled. The data volume of these five fields is 50 GB.

Logs are stored for 30 days. (Only logs of the past 30 days are stored. Logs of the first day are deleted on the 31st day.) After using LTS for one month, you want to use LTS to analyze daily logs.

Billing Analysis: Disabling Full-Text Index and Enabling the Index Field

The billing details in this scenario are described in [Table 4-2](#).

NOTICE

Unit prices in this example are used for reference only, and the calculated prices are estimated prices. As unit prices may change from time to time, the calculated prices may differ from actual prices. For details, see the data released on the Huawei Cloud official website. For price details, see [Price Calculator](#).

Table 4-2 Billing details (disabling full-text index and enabling the index field)

| Billing Item | Description | Monthly Usage | Unit Price | Monthly Billing |
|--------------------|--|---------------|------------------------|---|
| Read/Write traffic | Daily read/write traffic: 100 GB/5 (compression rate) = 20 GB. Accumulated read and write traffic for 30 days: 20 GB x 30 = 600 GB. | 600 GB | \$0.05 USD/GB | (600 GB – 500 MB/1024) x 0.05 = \$29.98 USD |
| Index traffic | 50 GB x 30 = 1500 GB | 1500 GB | \$0.08 USD/GB | (1500 GB – 500 MB free quota/1024) x 0.08 = \$119.96 USD |
| Storage space | Log volume = 100 GB/day x 30 days = 3000 GB | 3000GB | \$0.000125 USD/GB-hour | (3000 GB – 500 MB free quota/1024) x 0.000125 x 24 hours x 30 days = \$269.96 USD |

5 Bills

You can view the bill of a resource in the **Billing** section of Billing Center to learn about its usage and billing information in a certain period.

Bill Reporting Period

The usage of pay-per-use resources is reported to the billing system at a fixed interval for settlement. LTS reports service detail records (SDRs) every hour, collects statistics on the usage of all LTS resources by hour, and settles fees based on the usage.


Viewing Bills of a Specific Resource


NOTE





The function of reporting SDRs by log stream is in Friendly User Test (FUT). You can [submit a service ticket](#) to enable this function. In the second half of 2023, the LTS SDR reporting, which is now based on enterprise projects, will be specific to log streams.

Example 1 (LTS): Query a bill by enterprise project ID, and the enterprise project ID is the same as the resource ID reported in the bill.

Step 1 Log in to the LTS console.

Step 2 In the navigation pane on the left, choose **Log Management**. Click  of the desired log group name.

Step 3 Click  in the **Operation** column of a log stream. On the **Log Stream Details** page that is displayed, copy the enterprise project name.


| Log Stream Name | Remark | Enterprise P... | Tags | Metric Filters | Operation |
|----------------------|--------|-----------------|------|----------------|---|
| ts-resource-00000000 | | default | | |     |

Step 4 On the top menu bar of the console, choose **Enterprise > Project Management**. The project management page is displayed.

Step 5 Locate the enterprise project bound to the log stream in **3**, click the enterprise project name to go to the details page, and copy the enterprise project ID.

| | | | |
|--------------|--|----------|---------------------------------|
| Name | ts-resource-00000000 | ID | ae00e917-1a5-2e602ec4c008 |
| Status |  Disabled | Created | Jul 27, 2023 15:23:59 GMT+08:00 |
| Project Type | Enterprise | Modified | Jul 27, 2023 15:26:51 GMT+08:00 |
| Description | - | | |

Step 6 On the top menu bar of the console, choose **Billing & Costs > Bills**.

Step 7 In the navigation pane, choose **Billing > Expenditure Details**. Select **Resource ID** as the filter condition, enter the resource ID copied in step 5, and click  to search for the bill of the resource.


----End

Example 2 (LTS): Query a bill by log stream ID.

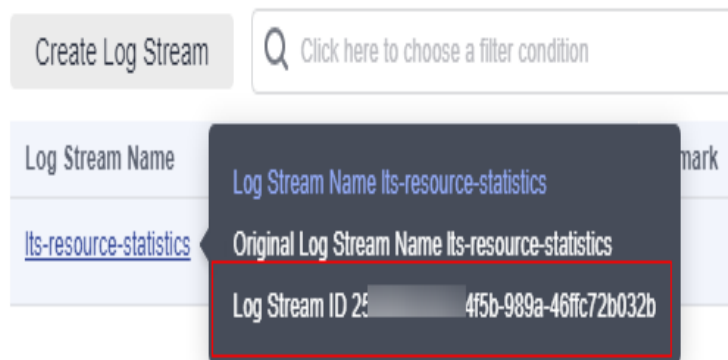
 **NOTE**

The function of reporting SDRs by log stream is in Friendly User Test (FUT). You can [submit a service ticket](#) to enable this function.


Step 1 Log in to the LTS console.

Step 2 In the navigation pane on the left, choose **Log Management**. Click  of the desired log group name.

Step 3 Move the cursor to the log stream name and copy the log stream ID.



Step 4 On the top menu bar, choose **Billing & Costs > Bills**. The **Bills** page is displayed.

Step 5 In the navigation pane, choose **Billing > Expenditure Details**. Select **Resource ID** as the filter condition, enter the log stream ID copied in step 3, and click  to search for the bill of the resource.

----End

Example: Viewing and Checking Resource Usage Through Transactions and Detailed Bills

 **NOTE**

The prices mentioned in the following are only for reference. For details, see [Price Calculator](#).

- LTS transaction bills

LTS is billed by hour. You can check whether the billing cycle in the transaction bill is consistent with the actual billing cycle. For details, see [Table 5-1](#).

Table 5-1 LTS transaction bills

| | |
|-------------------------|---|
| Product type | Log Tank Service (LTS) |
| Product | LTS |
| Billing mode | Pay-per-use |
| Expenditure time | The billing system generates a transaction bill to collect statistics on the total log storage space used in the billing cycle of 16:00:00 (GMT+08:00) on July 11, 2023 to 17:00:00 (GMT+08:00) on July 11, 2023. |
| List price | List price = Log volume (GB) x Unit price per GB In this example, you can query the unit price in the price calculator . For example, if the usage (pricing unit) is 2517.116 GB and the unit price is USD0.000125/GB-hour, the list price is 2,517.1161736575 x 0.000125 = USD0.31463952. |
| Discount amount | Discounts offered for cloud services, for example, commercial discounts, partner authorized discounts, and promotional discounts. It is the discounted amount based on the list price. |
| Truncated amount | Huawei Cloud bills a resource with the price (USD) accurate to the eighth decimal place. However, the amount due is truncated to the second decimal place, while the third and subsequent decimal places are referred to as the truncated amount. |
| Amount | Amount = List price – Discount amount – Truncated amount If the discount amount is 0, the amount is 0.31463952 – 0 – 0.00463952 = USD0.31. |

- LTS bill details

 **NOTE**

The prices mentioned in the following are only for reference. For details, see [Price Calculator](#).

Bill details display detailed information of bills from multiple dimensions. By default, the expenditure details of a resource are displayed by usage and by billing period. [Table 5-2](#) illustrates the LTS bill details, which can be used to check against the actual usage.

Table 5-2 LTS bill details

| | |
|---------------------|------------------------|
| Product type | Log Tank Service (LTS) |
| Product | LTS |

| | |
|-------------------------|--|
| Billing mode | Pay-per-use |
| Resource name/ID | Example: fbda872a-2cbf-44d4-9572-4dc6d7503ad7.lts.logstorage |
| Specifications | Log size |
| Usage type | Capacity |
| Unit price | The pay-per-use billing mode is simple pricing. You can query the unit price in Price Calculator . |
| Price unit | The price unit queried in Price Calculator : USD0.000125/GB-hour. |
| Usage | The usage is displayed by the resource's unit price, which is USD/GB-hour for LTS. Therefore, the LTS usage is measured by hour. In this example, the total usage in July is 480. |
| Usage unit | GB |
| List price | List price = Unit price x Capacity In this example, you can query the unit price in Price Calculator . For example, if the capacity is 480 GB and the unit price is USD0.000125/GB-hour, the list price is USD0.000125 x 480 = USD0.06. |
| Discount amount | Discounts offered for cloud services, for example, commercial discounts, partner authorized discounts, and promotional discounts. It is the discounted amount based on the list price. |
| Amount | Amount that should be paid for used cloud services after discounts are applied. |

6 Arrears

When you use cloud services, your account goes into arrears when the balance is less than the bill to be settled. Cloud services may not work, so top up your account in time.

Reasons

Your account balance is insufficient to pay for the used resources on the pay-per-use basis.

Impact of Arrears

After arrears, logs cannot be reported, and log groups and log streams cannot be created.

Avoiding and Handling Arrears

Reduce the log storage duration or delete unwanted log streams in a timely manner.

For details about how to top up your account, see [Topping Up an Account](#).

If data stored in OBS is no longer used, you can delete it to avoid further expenditures.

Configure the **Balance Alert** function on the **Billing Center > Overview** page. When the total amount of the available quota, general cash coupons, and cash coupons is lower than the threshold, the system automatically notifies you by SMS or email.

If your account is in arrears, top up your account in time.

7 Stopping Billing

When LTS stops reporting logs, billing on traffic (log read/write traffic and log index traffic) will stop. Billing on log volumes will not stop until all stored logs are aged.

8 Cost Management

8.1 Collect Statistics on LTS Expenses of Different Departments Based on Log Stream Tags.

To collect statistics on the expenses of different departments in an enterprise on LTS, you can add tags to LTS log streams to identify different service departments. LTS will add these tags when uploading CDRs to the billing center. You can download LTS billing information from **Billing > Bills > Bill Details**. Then, you can collect statistics on expenses of different departments based on resource tags, providing a basis for expense allocation of the enterprise.

Prerequisites

The function of reporting CDRs by log stream is being tested by friendly users. If you want to use log stream tags to collect statistics on the expenses of different departments in LTS, [submit a service ticket](#).

Introduction

Collect statistics on LTS expenses of different departments by adding log stream tags.


This practice uses departments aa and bb as an example. First, add the group=groupaa tag to the log group of department aa and the group=groupbb tag to the log group of department bb. Then, export bills from the fee details and perform statistical analysis with Excel.

NOTE

The prices mentioned in the following are only for reference. For details, see [Price Calculator](#).

Procedure

Step 1 Log in to the LTS console.


Step 2 Move the cursor to the **Tag** column of the target log group and click .


 **NOTE**

By adding a tag to a log group, you can apply the tag to an existing log stream in the log group. If a new log stream is added to the log group, you need to add a tag to the log stream separately. For details, see [Tagging a Log Stream](#).


Step 3 On the **Edit** dialog box displayed, click **Add Tags**, enter the tag key **group** and tag value **groupaa** of department aa, and click **OK**.

Edit

 The log group tag is independent of the log stream tag unless you enable Apply to Log Stream. (Applied once each time) [Learn more](#)


| Key | Value | Apply to Log Stream | Operation |
|------------------------------------|--------------------------------------|-------------------------------------|---|
| <input type="text" value="group"/> | <input type="text" value="groupaa"/> | <input checked="" type="checkbox"/> |  |


+ Add Tags You can add 19 more tags. (System tags not included)

Step 4 Move the cursor to the **Tag** column of the target log group and click .

Step 5 On the **Edit** dialog box displayed, click **Add Tags**, enter the tag key **group** and tag value **groupbb** of department bb, and click **OK**.

Edit

 The log group tag is independent of the log stream tag unless you enable Apply to Log Stream. (Applied once each time) [Learn more](#)

| Key | Value | Apply to Log Stream | Operation |
|------------------------------------|--------------------------------------|-------------------------------------|---|
| <input type="text" value="group"/> | <input type="text" value="groupbb"/> | <input checked="" type="checkbox"/> |  |

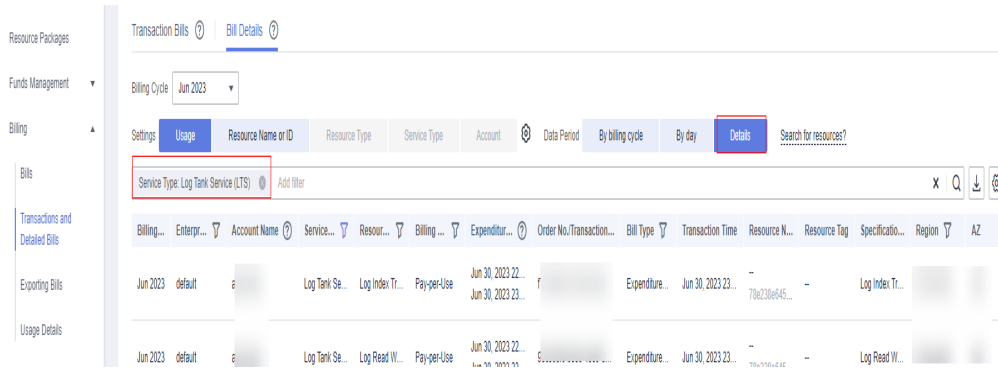
+ Add Tags You can add 19 more tags. (System tags not included)


Step 6 After the tag is added successfully, the following information is displayed. It is estimated that the CDR can be generated one hour later. The screenshot is for reference only.

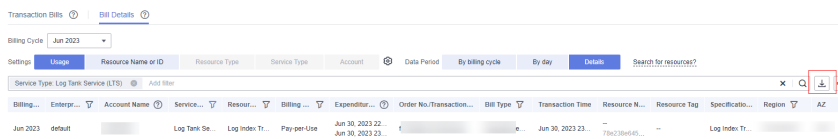
| | | | | |
|-------------------|----------|---|---------------|---|
| ▼ k8s-log-2875ghu | fiveahyt | 4 | group=groupaa | Modify Delete Details |
| ▼ llg-group-iclog | | 2 | group=groupbb | Modify Delete Details |

Step 7 On the top menu bar, choose **Billing & Costs > Bills**. The **Bills** page is displayed.

Step 8 Choose **Transactions and Detailed Bills > Bill Details**, choose a billing cycle, select **Details** for **Data Period**, and choose **Service Type: Log Tank Service (LTS)** for filters.



Step 9 Click  to export fee details to the local host.



Step 10 In the exported excel file, filter **Resource Tag** column to view the expenditure details of departments aa and bb.

NOTE

The prices mentioned in the figure are only for reference. For details, see [Price Calculator](#).

----End

9 Billing FAQs

9.1 What Is the Free Quota of 500 MB For?

LTS provides a free quota of 500 MB per month for each category of operations:

- **Log read, write, and indexing:** If the traffic for log read, write, and indexing exceeds the free quota, additional traffic will be billed on a pay-per-use basis.
- **Log retention:** If the used storage space exceeds the free quota, additional storage space will also be billed on a pay-per-use basis.

If you want to suspend log collection when the free quota is used up, see [How Can I Stop Log Collection When My Free Quota Is Used Up to Avoid Extra Expenses?](#).

9.2 What Is the LTS Pricing and How Does LTS Charge for Log Indexing?

LTS provides a free quota of 500 MB for log read/write, log indexing, and log retention each month. When the free quota is used up, subsequent log usage will be billed. For details, see [Product Pricing Details](#).

1. **Log read/write:** LTS charges for the amount of compressed log data read from and written to LTS. Usually, the log compression ratio is 5: 1.
For example, if the raw logs are 10 GB in size and are compressed down to 2 GB, 2 GB is billed.
2. **Log indexing:** Raw logs are full-text indexed by default for log search. Index creation will generate fees.
For example, if the raw logs are 10 GB in size, the amount of data used for indexing is 10 GB and the indexing fee is \$0.8 USD.
3. **Log retention:** Space used for retaining compressed logs, indexes, and copies is billed. The space is roughly the size of the raw logs.
For example: If the size of raw logs is 10 GB, the daily retention fee will be at most $\$0.000125 \text{ USD/GB/hour} \times 24 \text{ hours} \times 10 \text{ GB} = \0.03 USD . Decimal numerals will be rounded off and accurate to two decimal places. If the fee is less than \$0.01 USD (after rounding off), \$0.01 USD will be displayed.

9.3 How Will I Be Billed If I Use the Log Transfer Function?

The **Log Transfer** of LTS is in the **open beta test (OBT) period and is free of charge**. After the OBT ends, you will be billed based on your traffic usage. However, if you transfer logs to OBS or DIS, you will be billed by OBS or DIS. For details, see [Product Pricing Details](#).

9.4 How Can I Stop Log Collection When My Free Quota Is Used Up to Avoid Extra Expenses?

LTS can collect logs from hosts and cloud services.

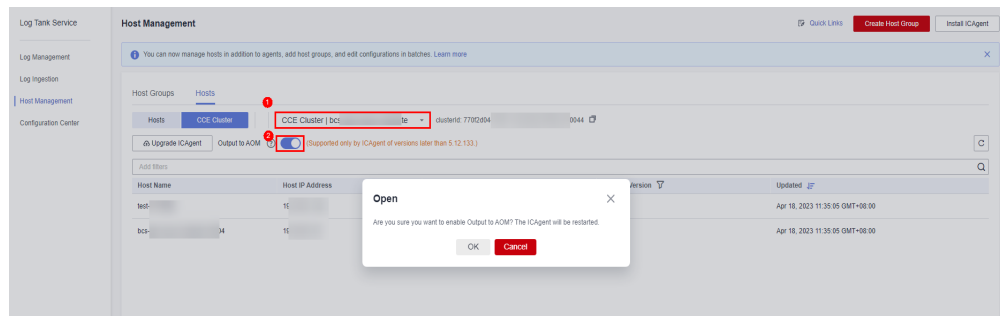
- **Host logs:** Host logs are collected by ICAgent. If the monthly free quota of 500 MB is used up, you will be charged for the excess log usage on a pay-per-use basis. To stop log collection when the free quota is used up, log in to the LTS console, choose **Configuration Center** in the navigation pane on the left, and disable **Continue to Collect Logs When the Free Quota Is Exceeded**. For details, see [Configuration Center](#). When log collection stops, no fees will be generated for log read/write and indexing. However, log retention will still be charged, so you are advised to change the log retention period to the minimum 1 day to accelerate the aging of collected logs. When the retention period ends, no fees will be generated for log retention.
If you set the log collection to be stopped when the free quota runs out in AOM, the setting is also applied to LTS. To view the used quota, log in to the AOM console and choose **Configuration Management > Quota Configuration**.
- **Cloud service logs:** To stop collecting logs from cloud services such as ELB, VPC, and WAF, disable the log reporting in the corresponding cloud services.

9.5 Why Are Fees Generated When the Log Function Is Disabled for a CCE User?

When you [buy a CCE Cluster](#), **Output to AOM** is selected by default to collect O&M data such as logs (standard output logs), metrics, and Kubernetes events. To disable the log function, perform the following steps:

- Step 1** Log in to the LTS console and choose **Host Management** in the navigation pane on the left.
- Step 2** Choose **Hosts** and click **CCE Cluster**.
- Step 3** In the CCE cluster, select the CCE cluster, and disable **Output to AOM**.

Figure 9-1 Disabling output to AOM



Step 4 Click **OK**. After ICAgent is restarted, CCE standard output to AOM is disabled.

----End