

Alibaba Cloud Log Service

Pricing

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Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 Danger: Resetting will result in the loss of user configuration data.
	This warning information indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 Warning: Restarting will cause business interruption. About 10 minutes are required to restore business.
	This indicates warning information, supplementary instructions, and other content that the user must understand.	 Notice: Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	 Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus, page names, and other UI elements.	Click OK.
Courier font	It is used for commands.	Run the <code>cd / d C :/ windows</code> command to enter the Windows system folder.
<i>Italics</i>	It is used for parameters and variables.	<code>bae log list --instanceid Instance_ID</code>
[] or [a b]	It indicates that it is an optional value, and only one item can be selected.	<code>ipconfig [-all -t]</code>

Style	Description	Example
<code>{}</code> or <code>{a b}</code>	It indicates that it is a required value, and only one item can be selected.	<code>swich {stand slave}</code>

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1 Billing method

Log Service is billed by resource usage on a tiered basis each month. LogShipper is free of charge. You can ship log data to MaxCompute and Object Storage Service (OSS) for storage and analysis at no cost. This document details shows Billing method, how to charge and billing examples.

Billing method

Billing instructions

- The billing cycle is one day: The bill is sent to you every day and the service is billed by the resource usage in the day.
- The FreeTier quota cycle is one month and the remaining quota will be cleared at the end of the month. If your resource usage does not exceed the FreeTier quota, no charge is collected. Otherwise, the part exceeding the quota is charged.
- Any billing item of less than USD 0.01 is excluded from the bill.

The resource billing items and unit prices are listed in the following table.

Billing items	Meaning	for a MapReduce	FreeTier quota (per month)	Example
Read and write traffic	The read and write traffic is calculated by the traffic for transmitting compressed logs. Logs are automatically compressed in SDK/Logtail mode, but need to be manually compressed in APIs mode . Logs are generally compressed by 5 to 10 times.	USD 0.045/GB	500 MB	If the size of the raw logs is 10 GB and the size of logs after compression is 1.5 GB, the logs are charged by 1.5 GB.

Billing items	Meaning	for a MapReduce	FreeTier quota (per month)	Example
Storage space	The storage space is the sum of data size after compression and the indexed data size.	USD 0.002875/GB <i>per day</i>	500 MB	The data size is 1 GB per day. After compression, the data size is 200 MB. 10% of the data is used for index (the size is 100 MB). After a storage period of 30 days, the accumulative maximum storage size is $30 \times (100 + 200) = 9 \text{ GB}$. The maximum fee for storage is $0.002875 \times 9 \approx \text{USD } 0.026$ per day. USD 0.026 per day.

Billing items	Meaning	for a MapReduce	FreeTier quota (per month)	Example
Indexing traffic	<ul style="list-style-type: none"> • The indexing traffic is calculated by actual index fields. Storage fee is collected in full during writing. • The traffic of fields having both FullText indexes and KeyValue indexes is calculated only once. • Indexes occupy the storage space and thus the storage space fee is collected. 	USD 0.0875/GB	500 MB	For example, if 10% fields in 10 GB logs need to be queried, only the traffic used to query the fields is charged. The indexing traffic fee is USD 0.0875.
Other billing items (to restrict the abuse of resources, the price of the following billing items is low by default)				

Billing items	Meaning	for a MapReduce	FreeTier quota (per month)	Example
Active shard rent	Only shards currently in readwrite status are counted. Rent of merged/split shards is not collected.	USD 0.01/day	31/day	For example , one of the three shards is in readwrite status. The other two shards are merged and in readonly status . The rent of only one shard (USD 0.01/day) is collected.
Read/write count	The write count of logs into the Log Service is subject to the log generation speed. The background realization mechanism assures the minimum read /write count as much as possible.	USD 0.03/1 million times	1,000,000 times	You can use Logtail for automatic batch sending and a total of USD 0.03 is collected for one million write operations.
Internet read traffic	The data traffic generated when Internet programs read log data collected by Log Service.	USD 0.2/GB	None.	The fee of Internet read traffic is USD 0.4 when 2 GB data is shipped by Log Service to non-Alibaba Cloud products .

Deduction and outstanding payment

- A bill is generally provided within four hours after the current billing cycle is finished. The system automatically deducts the bill amount from your account balance. If the account balance is insufficient, your account is in arrears.
- If the overdue bill is not paid off within 24 hours, your service is automatically stopped. However, you are still charged for using the storage space, so the overdue amount will increase. We recommend that you pay off the overdue bill within 24 hours to avoid any business loss caused by service stop.
- If the overdue bill is paid off within six days after the service is stopped, the service is automatically restored. Otherwise, Alibaba Cloud will assume that you have chosen to stop using the service, the project space will be reclaimed and data in it will be cleared. This data will not be recoverable.

Billing example

Case 1: FreeTier quota

You have three servers, of which one server generates 5 MB logs per day. You want to use a program to process the logs as follows:

1. Query the logs in real time and create a dashboard for online Operation & Maintenance (O&M).
2. Use a Java program to subscribe to log processing in real time.
3. Ship the logs to OSS.

Billing details:

- Resource: One Logstore (one shard) is created per day. 31 Logstores (one shard) are created in a month in total, not exceeding the quota.
- Read and write traffic: The read and write traffic per day is $15/5$ (data after compression) * 2 (read + write) = 6 MB (after compression). The accumulated read and write traffic in a month is $6 * 31$ (days) = 183 MB, not exceeding the quota.
- Indexing traffic: 15 (raw data) * 31 (days) = 465 MB, not exceeding the quota.
- Read/write count: The read/write count in a month is less than one million, not exceeding the quota.

You can use Log Service for online log analysis and processing for free each month.

Case 2: Real-time computing + offline computing (Lambda Architecture)

The website has 100 million API requests per day. Each request generates a 200-byte log, and the size of logs generated per day is 20 GB. The peak traffic is 5 times of the average traffic, 1.16 MB/s (less than 5 Mb/s). The logs are read once per day for real-time computing (the life cycle is two days) and imported to OSS for offline computing (Hive/Spark).

Billing details:

- Active shard rent: One shard is reserved. The fee is USD 0.01/day.
- Read/write count: Use Logtail for automatic batch sending and a total of USD 0.03 is collected for one million write operations.
- Read and write traffic
 - The write traffic is 20 GB. If the compression rate is 10%, the actual traffic is 2 GB and the fee is $2 * 0.045 = \text{USD } 0.09$.
 - The read traffic is the same as the write traffic in real-time computing, which is USD 0.09.
- Storage space: The storage size is $2 \text{ GB} * 2 \text{ (days)} = 4 \text{ GB}$. The storage fee per day is $4 * 0.002875 = \text{USD } 0.0115$.
- Importing logs to OSS is free of charge.

The maximum fee per day is $0.01 + 0.03 + 0.09 * 2 + 0.115 = \text{USD } 0.335$.

Case 3: Online log query and analysis

The service has one million API access requests per day. Each request generates a 200-byte log, and the size of logs generated per day is 200 MB. Logs of the last 30 days are saved for query.

Billing details:

- Active shard rent: One shard is reserved. The fee is USD 0.01/day.
- Read/write count: Use Logtail for automatic batch sending and a total of USD 0.03 is collected for one million write operations.
- Read and write traffic: The write traffic is 200 MB. The data size after compression is 0.05 GB. The read and write traffic fee per day is $0.05 * 0.045 = \text{USD } 0.00225$.
- Indexing traffic: The indexing fee per day is $0.2 * 0.0875 = \text{USD } 0.0175$.
- Storage space: $200 \text{ MB} + 50 \text{ MB (compressed raw data)} = 250 \text{ MB}$. The storage peak size is $250 * 30 = 7.5 \text{ GB}$. The storage fee per day is $7.5 * 0.002875 = \text{USD } 0.022$.

The maximum fee per day is $0.01 + 0.03 + 0.00225 + 0.0175 + 0.22 = \text{USD } 0.08175$.

2 Cost optimization

Cost is related to two factors:

- **Data volume.** Data volume is determined by your business needs and cannot be optimized. The amount of user data is determined by the business and cannot be optimized.
- **Configurations.** Configurations can be optimized. With the configurations matching with the amount of data, you can select the optimal solution to minimize the cost.

Optimizing configurations

Configurations can be optimized in the following two aspects:

- **Number of shards**

The price for one shard is USD 0.04 per day, with a maximum data processing capability of 5 MB/s. Only shards in readwrite status are charged. Adjust the number of shards so that each shard can process data exactly at 5 MB/s. To reduce the number of shards, merge the shards.

- **Storage cycle of indexes**

We recommend that you optimize the storage time of indexes based on your requirements for log query and storage.

- If you collect the logs for stream computing, we recommend that you only use LogHub, without creating indexes.
- If you want to store and back up logs for a long time, we recommend that you configure the Object Storage Service (OSS) Shipper, and import the logs to OSS.

Other optimization recommendations

- **Use Logtail:** With the functions of batch processing and breakpoint transmission, data is transmitted with optimal algorithm while guaranteeing the real-timeliness. Logtail consumes 3/4 less resources than that of the open-source software (such as Logstash and Fluentd), thus reducing CPU consumption.
- **Try to use large packages (64 KB–1 MB) to write logs by using API,** thus reducing the number of requests.

- **Only index key fields (for example, UserID and Action), without configuring indexes for useless fields.**

3 Billing FAQs

FAQ list

1. [What should I do if my account is in arrears due to Log Service?](#)
2. [I only created a project and a LogStore, why is there a bill?](#)
3. [How do I disable Log Service?](#)

1. What should I do if my account is in arrears due to Log Service?

Log Service charges resources after you use them. It outputs bills every day and automatically deducts fees. The bill lists resources you used on the last day. If the overdue bill is not paid off within 24 hours, your Log Service stops automatically. However, you are still charged for the storage space you are using, and the overdue amount increases. We recommend that you pay off the overdue bill within 24 hours to avoid any business loss caused by service stop. You can continue to use Log Service after paid off the arrears.

2. I only created projects and Logstores. Why do I have a bill?

If you have created a project and a Logstore, a shard is created by default to reserve resources. As indicated by the page appeared when you create a Logstore, Log Service charges a small amount of resource reservation fees for the shard. Based on the current billing policy, the free quota for each shard is 31 days. If you create two shards, they will be charged after 15 days. You can delete the project and Logstore if you no longer need the shard. If you delete the resources, Log Service sends you the bill of resource usage the next day, and you do not receive the project bill from the third day.

For more information about the billing items, see [#unique_6](#).

3. How to disable Log Service?

If you no longer need Log Service, you can delete all projects under the account. In this case, Log Service is disabled and you will not be charged from the next day. If you account has been in arrears, pay off the arrears and delete the projects. If no Log Service services or resources exist under your account, you will not receive Log Service bills from the next day.