

Data Lake Compute

Purchase Guide

Product Documentation



Copyright Notice

©2013-2024 Tencent Cloud. All rights reserved.

Copyright in this document is exclusively owned by Tencent Cloud. You must not reproduce, modify, copy or distribute in any way, in whole or in part, the contents of this document without Tencent Cloud's the prior written consent.

Trademark Notice



All trademarks associated with Tencent Cloud and its services are owned by Tencent Cloud Computing (Beijing) Company Limited and its affiliated companies. Trademarks of third parties referred to in this document are owned by their respective proprietors.

Service Statement

This document is intended to provide users with general information about Tencent Cloud's products and services only and does not form part of Tencent Cloud's terms and conditions. Tencent Cloud's products or services are subject to change. Specific products and services and the standards applicable to them are exclusively provided for in Tencent Cloud's applicable terms and conditions.

Contents

Purchase Guide

- Billing Overview

- Refund

- Payment Overdue

- Configuration Adjustment Fees

Purchase Guide

Billing Overview

Last updated : 2023-06-12 10:18:30

The billing of Data Lake Compute consists of two parts: compute resources and storage resources. Compute resources have private and public engines, and storage resources are charged only when the managed storage service of Data Lake Compute is used.

Billing of Compute Resources

Performance description

Data Lake Compute private engines are billed by compute unit (CU). Each CU contains 1 CPU core and 4 GB memory. You can estimate the number of required CUs based on your actual business conditions or [submit a ticket](#) for assistance.

Data Lake Compute public engines are billed by scanned data volume. Public engines are suitable for scenarios with a small amount of data and are recommended.

Billing modes

Data Lake Compute supports pay-as-you-go and monthly subscription billing modes as detailed below. For more information, see [Postpaid Billing](#) and [Prepaid Billing](#) respectively.

| Data Engine Type | Billing Mode | Description |
|------------------|---------------|---|
| Public engine | Pay-as-you-go | Requires no configuration management. Incurs no fees when idle and is billed by scanned data volume . Works well in temporary computing scenarios with a small amount of data. |
| Private engine | Pay-as-you-go | Scales private resources elastically as needed. Supports suspension when there is no task and incurs no fees when suspended; is billed by CU Works well in irregular computing scenarios with a medium amount of data. |

Monthly
subscription

Scales private resources elastically as needed.
Is billed by CU and becomes available at any time with no need of startup. **The elastically scaled resources are pay-as-you-go.**
Works well in stable computing tasks with a large amount of data.

Pricing

Public engine

A public engine is billed by scanned data volume in successful query tasks, with a bill generated every clock-hour.

You can view specific bills in the [Billing Center](#).

Public engine fees = Scanned data volume * Unit price

| Billable Item | Price (USD/GB) |
|---------------------|----------------|
| Scanned data volume | 0.0045 |

Note

Fees will be incurred if the query task succeeds or the task is manually canceled but data is scanned. No fees will be incurred when resources are being scheduled or if the query task fails.

If less than 34 MB of data is scanned for a single SQL task, it will be billed as 34 MB (about 0.00015 USD).

When you use a public engine, since Data Lake Compute adopts serverless architecture, it needs to schedule compute resources for task execution for the first time over a period of time, which may take a longer time.

Private engine

Note

To purchase a data engine with more than 256 CUs, [submit a ticket](#) for assistance, and we will reserve resources for you.

Pay-as-you-go

A pay-as-you-go data engine is elastically scalable. When you purchase it, the system will freeze the fees for 1-hour usage of the minimum cluster specification. A bill will be generated every clock-hour. You can view specific bills in the [Billing Center](#).

Pay-as-you-go private engine fees = Hourly number of used CUs * Unit price

Note

In pay-as-you-go billing mode, the engine will keep running at the purchased minimum cluster count. You can suspend the engine when you don't need to use clusters in order to avoid fees.

Monthly subscription

In monthly subscription billing mode, the engine will keep running at the purchased minimum cluster count. If elastic scaling is triggered, added cluster resources will be pay-as-you-go. You can view specific bills in the [Billing Center](#). A monthly subscribed engine won't incur pay-as-you-go fees if it is not scaled.

Monthly subscription fees = Cluster specification *Minimum cluster count* *Number of purchase months* *

Monthly subscription unit price

Monthly subscription scaling fees = Cluster specification *Number of added clusters* *Pay-as-you-go unit price*

Example: If you purchase a monthly subscribed private data engine with a specification of 16 CUs, a minimum cluster count of 2, and a maximum cluster count of 5 for one month, the monthly subscription fees will be $16 \times 2 \times 1 \times 22 = 704$ USD, and the engine will run for one month with two 16-CU clusters without incurring additional fees. If the engine is scaled out to five clusters for one hour, then three added 16-CU clusters will incur pay-as-you-go fees of $16 \times (5 - 2) \times 1 \times 0.05 = 2.4$ USD.

Unit price

Note

The available regions on the purchase page apply.

The prices of Data Lake Compute CU in different regions are as follows:

| Region | Monthly Subscription Price (USD/CU/Month) | Pay-As-You-Go Price (USD/CU/Hour) |
|-------------------|---|-----------------------------------|
| Hong Kong (China) | 22 | 0.05 |
| Singapore | 22 | 0.05 |
| Virginia | 22 | 0.05 |

Billing of Storage Resources

Data Lake Compute provides the data storage capability. After you enable the native table feature, the native table data is stored under managed storage of Data Lake Compute.

Managed storage is used to store data including native table data, adaptive shuffle data, query result data, and program packages.

Billing modes

Managed storage fees are **pay-as-you-go**. They consist of storage usage fees and request fees, as detailed below.

| Billable Item | Description | Billing Formula |
|--------------------|--|--|
| Storage usage fees | Calculated based on the storage usage at a unit price that varies by storage class. | Daily storage usage fees = Monthly storage usage unit price / 30 * Daily storage usage Daily storage usage = Sum of "5-minute storage usage" for the day / 288 (number of statistical points) |
| Request fees | Calculated based on the number of requests at a unit price that varies by storage class. | Request fees = Unit price per 10,000 requests * Daily accumulated number of requests / 10,000 |

Pricing

| Region | Storage Usage Fees (USD/GB/month) | Request Fees (USD/10k requests) |
|-------------------|-----------------------------------|---------------------------------|
| Hong Kong (China) | 0.022 | 0.002 |
| Singapore | 0.022 | 0.003 |
| Virginia | 0.02 | 0.002 |

Example:

Assume that on November 1, 2020, user A uploaded 10 GB of data to a Data Lake Compute managed storage bucket residing in Hong Kong (China) region in the STANDARD storage class, generating 100 requests. As fees for a day were settled the next day:

STANDARD storage usage fees: Settled daily starting from November 2, 2020.

STANDARD request fees: Settled on November 2, 2020.

An analysis is performed as follows based on the two billing modes:

STANDARD storage usage fees = 0.022 USD/GB/month / 30 10 GB 30 days = 0.22 USD

STANDARD request fees = 0.002 USD/10,000 requests * 100 requests / 10,000 = 0.00002 USD

In summary, the total bill for user A in November is calculated as follows: 0.22 + 0.00002 = 0.22002 USD.

Refund

Last updated : 2023-06-12 10:19:27

Note

Self-service return is supported only for monthly subscribed private data engines. You don't need to return pay-as-you-go engines, as you can delete or suspend them to stop billing. Public engines won't incur fees when they are idle, so there is no need to return them.

Self-service return

Once returned, a data engine will be isolated. During the isolation period, it will be unavailable, with the data retained though.

To recover an isolated data engine, go to the **Billing Center > Renewal Management** page in the Tencent Cloud console, select Data Lake Compute, and renew it.

You cannot return the data engine again within six hours after you renew and recover it from isolation.

The isolation period is seven days. After it elapses, the system will terminate the data engine permanently.

The system will notify your Tencent Cloud account creator, global resource collaborators, and financial collaborators by email and SMS when your data engine is terminated.

Refund rules

Refund amount = Currently effective order amount + Ineffective order amount - Used resource value

| Parameter | Description |
|----------------------------------|--|
| Currently effective order amount | The amount paid for the currently effective order, excluding discounts and vouchers. |
| Ineffective order amount | The amount paid for the order that will take effect in the future, excluding vouchers. |
| Used resource value | It is calculated as follows: If the cluster has been used for one month as of the date of return, fees will be deducted by month; otherwise, fees will be deducted in a pay-as-you-go manner. The usage is accurate down to the second. If the refund is less than or equal to 0, it will be calculated as 0, and resources will be returned. |

Note

Discounts and vouchers are not refundable.

The refund amount will be refunded to your account at the ratio of cash and free credit paid upon purchase.

Payment Overdue

Last updated : 2023-08-10 17:01:16

Note :

If you are a customer of a Tencent Cloud partner, the rules regarding resources when there are overdue payments are subject to the agreement between you and the partner.

Compute Resources

Monthly Subscription

Expiration alert

From seven days before your monthly subscribed resource expires, the system will send alerts for expiration to your Tencent Cloud account creator, global resource collaborators, and financial collaborators by email and SMS.

Overdue payment alert

Pay-as-you-go resources are billed on every clock-hour. When your account balance becomes negative, your Tencent Cloud account creator, global resource collaborators, and financial collaborators will be notified by email and SMS.

Repossession

From seven days before your monthly subscribed data engine expires, the system will send you renewal notifications.

If your account balance is sufficient and you have previously enabled automatic renewal, the system will renew your data engine automatically on the day it expires. If your account balance is insufficient, the renewal will fail.

If you fail to renew your data engine before its expiration time, it will expire, and the system will automatically send expiration notifications.

After the data engine expires, **the system will isolate it in 24 hours**. It will become unavailable, with the data retained though.

You can renew an isolated data engine on the **Data Engines** page in the Data Lake Compute console to recover it.

Note

The billing cycle of a data engine that is renewed from the isolated status will start from the expiration date of the previous cycle.

You cannot return the data engine again within six hours after you renew and recover it from isolation.

The isolation period is seven days. If you don't renew the data engine before the isolation period elapses, the system will terminate the data engine permanently.

The system will notify your Tencent Cloud account creator, global resource collaborators, and financial collaborators by email and SMS when your data engine is terminated.

Pay-As-You-Go

Overdue payment alert

Pay-as-you-go resources are billed on every clock-hour. When your account balance becomes negative, your Tencent Cloud account creator, global resource collaborators, and financial collaborators will be notified by email and SMS.

Processing for overdue payments

Public engine

From the time point when **your account balance becomes negative**, you cannot use the public engine for data computing.

Pay-as-you-go private engine

Within **one hour** after your account balance becomes negative, your private engine will still be available and incur fees. After one hour, it will be isolated and stop incurring fees. It then cannot be used for data computing.

After the data engine is isolated:

Within **seven days (7 x 24 hours)** after your data engine is isolated, if you top up your account to a positive balance, it will be recovered from isolation and continue to incur fees, and you can use it for data computing. If your account balance remains negative, it will remain isolated.

If your account **still has overdue payments** for **seven days (7 x 24 hours)** after your pay-as-you-go data engine is isolated, after the isolation period elapses, **it will be terminated permanently**.

The system will notify your Tencent Cloud account creator, global resource collaborators, and financial collaborators by email and SMS when your data engine is terminated.

Storage Resources

Overdue payment alert

When your account has overdue payments, your Tencent Cloud account creator, global resource collaborators, and financial collaborators will be notified by email and SMS.

Processing for overdue payments

1. The managed storage service of Data Lake Compute is still available **within 24 hours** after your account has overdue payments, with a service suspension notification sent to you in the console. You need to top up your account to a positive balance to avoid affecting your business.
2. The managed storage service will be automatically suspended after 24 hours with overdue payments. You cannot read or write any data, while charges will still accrue for the **storage usage of your data** until it is destroyed. Before the destruction, your data will be retained for 120 days considering its potential importance. During this period, all you can do in the console is to pay charges. After you top up your account to a positive balance, the service will be resumed automatically.
3. After 120 days on end with overdue payments, you will be deemed to have waived the managed storage service. With no promise to further retain your data, it will be destroyed and cannot be recovered.

Configuration Adjustment Fees

Last updated : 2022-11-24 14:50:58

You can adjust the configuration of a purchased private engine. You don't need to adjust the configuration of public engines as they are managed by the system in a unified manner.

Notes

You can adjust the configuration of a data engine only if it has no running tasks or is suspended. The engine will be unavailable during configuration adjustment and will be restarted automatically after the adjustment is completed.

Adjusting the Configuration of a Monthly Subscribed Engine

You can adjust the CU configuration of a monthly subscribed private engine in the [Data Lake Compute console](#). For more information, see [Managing Private Data Engine](#).

Configuration upgrade billing rules

- The price difference for upgrading the configuration of a data engine should be made up based on the number of days. Configuration upgrade fees = price difference for upgrade per month * number of months for upgrade.
 - Price difference for the upgrade per month: Unit price difference between the new and old configurations.
 - Configuration upgrade fees are calculated by the number of days. Number of days for upgrade = resource expiration time - current time
 - Number of months for upgrade = number of days for upgrade / (365/12)
- Configuration upgrade doesn't affect the resource expiration time.
- You can pay configuration upgrade fees by using your vouchers and free credits.

Configuration downgrade billing rules

Refund for data engine configuration downgrade = fees of original specification - fees of new specification. For more information, see [Refund](#).

- If the refund is greater than 0, the configuration will be downgraded, and fees will be returned to your Tencent Cloud account accordingly.
- If the refund is less than or equal to 0, the configuration will be downgraded, but no fees will be refunded.
- If you use a discount or voucher for purchase, the discount amount and voucher will not be refunded.

Adjusting the Configuration of a Pay-As-You-Go Engine

You can adjust the CU configuration of a pay-as-you-go private engine in the Data Lake Compute console. For more information, see [Managing Private Data Engine](#). After the adjustment operation is submitted, the cluster status will become **Changing configuration**. After the adjustment is completed, the engine will be billed in pay-as-you-go mode based on the new configuration.