

# **Tencent HealthCare Omics Platform**

## **Purchase Guide**

### **Product Documentation**



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# Purchase Guide

## Billing Overview

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To use the Tencent HealthCare Tencent Healthcare Omics Platform, you need to activate [environment](#). It is the collection of the required omics computing resources and their associated Tencent Cloud resources. The platform provides two environments: a managed environment and a standard environment. The billing model provided by the Tencent HealthCare Tencent Healthcare Omics Platform is **pay-as-you-go model (postpaid)**.

### managed environment Billing Model

The managed environment provides fully serverless services, auto scaling resources, and pay-as-you-go billing method. After you create a managed environment, you are charged only when it is actually running, with no node management fees. The platform will calculate the relevant fees based on the resource type selected by users, as detailed below:

#### Omics Container

When users deliver bioinformatics analysis runs, the platform submits runs to the omics container for calculation. With jobs that submit runs as the basic unit, billing is performed based on the users' consumed resources. The billing method for the omics container is based on the scheduled Pod specifications and running time on the node. For specific calculation methods, see [Product Pricing](#).

Billing mode	Pay-As-You-Go Model
Payment Method	Settled by Hour
Billing Mode	Pay-as-you-go
Billing Unit	USD/second
Minimum Service Time	Billed by second and settled by hour
Billing Model Dimensions	Pod
Billing Item	CPU
	Memory

#### Omics cache

The billing method for the omics cache is based on the storage volume. For specific calculation methods, see [product pricing](#).

Billing mode	Pay-As-You-Go Model
Payment Method	Settled by Hour
Billing Mode	Pay-as-you-go
Billing Unit	USD/GiB/hour
Minimum Service Time	Billing by Hour
Billing Model Dimensions	GiB
Billing Cycle Description	The general series is billed based on the maximum storage space used per hour. The Turbo series is billed based on the purchased capacity, rather than the actual usage.
Billing Item	Standard storage
	High-performance storage
	Standard turbo storage
	High-performance turbo storage

## Omics Public Network

The data that users download from volumes on the platform, will be charged based on the public network traffic used. The payment mode is postpaid and the settlement is made every hour. For specific calculation methods, see [Product Pricing](#).

Billing mode	Pay-As-You-Go Model
Payment Method	Settled by Hour
Billing Mode	Pay-as-you-go
Billing Unit	USD/GiB
Minimum Service Time	Billing by Hour
Billing Model Dimensions	GiB
Billing Item	Public Network Traffic

## Omics Cloud Block Storage

Users define disk in the platform application and will be charged according to the cloud disk storage capacity they choose. For specific calculation methods, see [Product Pricing](#).

Billing mode	Pay-As-You-Go Model
Payment Method	Settled by Hour
Billing Mode	Pay-as-you-go
Billing Unit	USD/GiB/Second
Minimum Service Time	Billed by second and settled by hour
Billing Model Dimensions	GiB
Billing Item	Premium Cloud Disk
	Balanced SSD
	CloudSSD
	Enhanced SSD

## Standard Environment Billing Model

The standard environment supports management nodes. Creating a standard environment will automatically activate and associate Tencent Cloud-related underlying resources and deploy Tencent HealthCare Tencent Healthcare Omics Platform services. The fees related to the standard environment Omics billing items include two parts:

### 1. Deployment Service Management Node Fee

To ensure secure and convenient use of the Tencent Healthcare Omics Platform, 1 CVM instance and 1 omics container instance are automatically created under the user's Tencent Cloud account and deployed as management nodes when the omics environment is created. The management nodes are created and terminated along with the activated environment. You do not need to manage them. If you do not use the omics environment to deliver bioinformatics analysis runs for a long time, delete and release the Tencent Healthcare Omics Platform environment in time to prevent unnecessary waste of resources and fees.

### 2. Execution Analysis Task Resource Consumption

When users deliver bioinformatics analysis runs, the platform submits runs to the omics container for calculation. With jobs that submit runs as the basic unit, billing is performed based on the users' consumed resources. The omics container supports container resources. The billing method is based on the scheduled Pod specifications and running time on the node. For specific calculation methods, see [Product Pricing](#).

Billing mode	Pay-As-You-Go Model
Payment Method	Settled by Hour
Billing Mode	Pay-as-you-go
Billing Unit	USD/second
Minimum Service Time	Billed by second and settled by hour
Billing Model Dimensions	Pod
Billing Item	CPU
	Memory

### Additional Costs of Standard Environment

Tencent HealthCare Tencent Healthcare Omics Platform standard environment service relies on other Tencent Cloud services; it may incur fees for related cloud products. For example, when you use the Tencent HealthCare Tencent Healthcare Omics Platform, if the [Cloud Virtual Machine \(CVM\)](#), [TDSQL-C](#), [Cloud Object Storage \(COS\)](#), [Cloud File Storage \(CFS\)](#), [Tencent Container Registry \(TCR\)](#), [Cloud Load Balancer \(CLB\)](#) and other charging products are used, they will be billed according to the original product billing principles. For specific details, see the purchase guide for each product.

#### Note:

After you create the Tencent HealthCare Tencent Healthcare Omics Platform standard environment in the console, some underlying cloud resources will be consumed to maintain the normal running of the Tencent Healthcare Omics Platform, and there will be related fees. To avoid unnecessary waste, environments that have not been used for a long time need to be deleted in time to release corresponding resources.

# Product Pricing

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## Overview

Pay-as-you-go is supported based on the type and specifications of resources you actually consume.

Calculation formula: **Cost = Resource Price per Unit Time x Related Billing Item Configuration x Running time.**

## Hosting Environment Pricing Descriptions

### Billing Items and Resource Price per Unit Time

Product name	Billing Item	Guangzhou , Shanghai , Beijing	Hong Kong (China)	Singapore	Frankfurt
Omics Container	CPU (USD/Core/Second)	0.00000498	0.00000498	0.00000498	0.00000522
	Memory (USD/GiB/Second)	0.00000207	0.00000249	0.00000249	0.00000261
Omics cache	Standard storage (USD/GiB/Hour)	0.00008056	0.000125	0.000125	0.000125
	High-performance storage (USD/GiB/Hour)	0.00031944	0.00052778	0.00052778	0.00052778
	Standard turbo storage (USD/GiB/Hour)	0.00011905	0.00020833	0.00020833	0.00020833
	High-performance turbo storage (USD/GiB/Hour)	0.00027778	0.00045833	0.00045833	0.00045833
Omics Public Network	Public Network Traffic (USD/GiB)	0.12	0.12	0.081	0.077



Omics Cloud Block Storage	Premium Cloud Disk (USD/GiB/Second)	0.00000003	0.00000003	0.00000003	0.00000003
	Balanced SSD (USD/GiB/Second)	0.00000004	0.00000006	0.00000006	0.00000006
	CloudSSD (USD/GiB/Second)	0.00000008	0.00000008	0.00000008	0.00000008
	Enhanced SSD (USD/GiB/Second)	0.00000008	0.00000008	0.00000008	0.00000008
Omics GPU	V100 GPU (USD/Card/Second)	0.00047429	0.00047429	0.00047429	0.00047429
	V100 CPU (USD/Core/Second)	0.00000859	0.00000859	0.00000859	0.00000859
	V100 Memory (USD/GiB/Second)	0.00000503	0.00000503	0.00000503	0.00000503
	T4 GPU (USD/Card/Second)	0.00021001	0.00021001	0.00021001	0.00021001
	T4 CPU (USD/Core/Second)	0.0000035	0.0000035	0.0000035	0.0000035
	T4 Memory (USD/GiB/Second)	0.0000035	0.0000035	0.0000035	0.0000035

## Restriction of Billing Item Configuration Resource Specifications

### Omics Container

The omics container cluster provides the following specifications of CPU Pods in all regions that support the CPU resource type. The omics container cluster provides a range of CPU options. Different CPU sizes correspond to different memory selection ranges. When you create a workload, please select the most appropriate specification based on your actual needs and allocate resources.

CPU/Core	Memory Range/GiB	The Granularity of Memory Range/GiB
1	1 - 8	1
2	2,4 - 16	1
4	8 - 32	1

8	16 - 32	1
12	24 - 48	1
16	32 - 64	1
32	64,128,256	-
64	128,192,256,512	-

**Omics Cache**

Types of Volumes	Standard	High-Performance	Standard Turbo	High-Performance Turbo
Product Positioning	High cost-effectiveness, suitable for small-scale general data storage scenes	High performance and low latency, suitable for small-scale latency-sensitive core businesses	High throughput and large capacity, suitable for large-scale throughput and mixed-load business	High-throughput and high IOPS, suitable for businesses that use large-scale small files.
Applicable Scenario	Small-scale enterprise file sharing, data backup and archiving, and log storage	Small-scale CI/CD development and testing environment, high-performance Web services, OLTP databases, and high-performance sharing	AI reasoning and high-performance computing	Large-scale high-performance computing, AI training, and big data analysis
Storage Capacity	0 - 160TiB	0 - 32TiB	20TiB - 100PiB	10TiB - 100PiB
Throughput (MiB/S)	Min{100 + 0.1 x capacity (GiB), 300}	Min{200 + 0.2 x capacity (GiB), 1,024}	Min{0.1 x capacity (GiB), 100,000}	Min{0.2 x capacity (GiB), 100,000}
Read IOPS	min{2000+8*size(GiB),15000}	Min{2500 + 30 x	Min{2 x capacity	Min{20 x

		capacity (GiB), 30,000}	(GiB), 2 million}	capacity (GiB), 10 million}
Write IOPS	$\min\{2000+8*\text{size}(\text{GiB}), 15000\}$	$\text{Min}\{2500 + 30 \times \text{capacity (GiB)}, 30,000\}$	$\text{Min}\{1 \times \text{capacity (GiB)}, 1 \text{ million}\}$	$\text{Min}\{5 \times \text{capacity (GiB)}, 3 \text{ million}\}$
Maximum OPS	Read/write: 10,000/1,000	Read/write: 30,000/3,000	Read/Write: 300,000/20,000	Read/Write: 300,000/20,000
Latency	4K single-stream read: 3 ms 4K single-stream write: 7 ms	4K single-stream read: 1 ms 4K single-thread write: 1.5 ms	4K single-thread read: 0.2 ms 4K single-stream write: 3 ms	4K single-thread read: 0.2 ms 4K single-thread write: 1.5 ms
Supported Protocols	NFS/SMB	NFS	POSIX/MPI	POSIX/MPI
Scale-out Method	Automatic scale-out	Automatic scale-out	Manual Scale-out	Manual Scale-out
Supported Operating Systems	Linux/Windows	Linux/Windows	Linux	Linux

## Pricing Descriptions in Standard Environment

### Omics Platform Billing Item Pricing Descriptions in Standard Environment

#### Billing Items and Resource Price per Unit Time

Product name	Billing Item	Guangzhou , Shanghai , Beijing	Hong Kong (China)	Singapore	Frankfurt
Omics Container	CPU (USD/Core/Second)	0.00000498	0.00000498	0.00000498	0.00000522
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### Restriction of Billing Item Configuration Resource Specifications

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CPU/Core	Memory Range/GiB	The Granularity of Memory Range/GiB
1	1 - 8	1
2	2,4 - 16	1
4	8 - 32	1
8	16 - 32	1
12	24 - 48	1
16	32 - 64	1
32	64, 128, 256	-
64	128, 192, 256, 512	-

## Billing Instructions for Other Related Products in the Standard Environment

When using the Tencent HealthCare Omics Platform, you may need to pay for some of the following products when using them.

Related Products	Billing
Cloud Virtual Machine (CVM)	For CVM billing, see <a href="#">Billing Description</a> .
CloudDB for TDSQL-C for MySQL	For CloudDB billing, see <a href="#">Billing Description</a> .
Cloud File Storage (CFS)	For CFS billing, see <a href="#">Billing Description</a> .
Cloud Object Storage (COS)	For COS billing, see <a href="#">Billing Description</a> .

# Payment Overdue

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## Payment Overdue in the Managed Environment

Once payment overdue occurs, the omics managed environment will immediately stop services, and the memory data, omics cache data, and omics Cloud Block Storage data will not be restored after the service is stopped. At the same time, the workload of the omics container cluster will be released instantly.

Before payment overdue occurs and services are stopped, the root account and all sub-accounts of the Tencent Cloud account will be notified via Short Message Service and the message center.

After completing the top-up, you need to create an environment again on the environment management page. For specific operations, see [Environment Management](#).

### Note:

Terminate pay-as-you-go instance resources promptly when you no longer use them to avoid further fees. After termination/possession, the data will be cleared and cannot be recovered.

## Payment Overdue in Standard Environment

Once payment overdue occurs, the omics standard environment will immediately stop services, and the memory data will not be restored after the service is stopped. At the same time, the workload of the omics container cluster will be released instantly.

Before payment overdue occurs and services are stopped, the root account and all sub-accounts of the Tencent Cloud account will be notified via Short Message Service and the message center.

When other products related to the standard environment are in payment overdue status, the resources will be released immediately when the service is shut down, causing the environment to be unavailable.

After completing the top-up, you need to create an environment again on the environment management page. For specific operations, see [Environment Management](#).

### Note:

Terminate pay-as-you-go instance resources promptly when you no longer use them to avoid further fees. After termination/possession, the data will be cleared and cannot be recovered.

## Payment Overdue for Other Related Products in the Standard Environment

When you use the standard environment of the omics platform, if the following related products are in payment overdue status, the omics environment may become unavailable. For the payment overdue, see the corresponding product documentation.

Product	Payment Overdue
Cloud Virtual Machine (CVM)	<a href="#">Payment Overdue</a>
CloudDB for TDSQL-C for MySQL	<a href="#">Payment Overdue</a>
CFS CFS	<a href="#">Payment Overdue</a>
Cloud Object Storage (COS)	<a href="#">Payment Overdue</a>
TCR TCR	<a href="#">Payment Overdue</a>
Cloud Load Balancer	<a href="#">Payment Overdue</a>