

# TencentDB for MySQL

# Purchase Guide Product Documentation





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# Purchase Guide Billing Overview

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#### Note:

From 00:00:00 on November 1, 2023 to 23:59:59 on February 29, 2024, high-availability dual-node pay-as-you-go instances in the Tokyo, Sao Paulo, Toronto, Mumbai, Virginia, Singapore, Frankfurt, Jakarta, Seoul, and Hong Kong (China) regions of the international site can enjoy a 30% discount. The final price will be determined based on the console.

This product now supports dynamic pricing query and cost estimation. You can use the Price Calculator to estimate fees.

### **Billing Modes**

TencentDB for MySQL now offers the monthly subscription billing mode. Pay-as-you-go pricing remains unchanged. TencentDB for MySQL supports separate billing for memory and disks to provide users with more flexible options. Instance price formula: Instance price = Memory fee + Storage fee

### **Advanced Features**

#### **Backup capacity**

Backup capacity does not support monthly subscription. Please see pay-as-you-go pricing.

#### Instance renewal management

Batch renewal, auto-renewal, collective expiry date, do-not-renew flag can be found in the **Renewal Management** page.

#### Instance upgrade cost formula

Suppose an instance expires in T days, and the monthly prepaid fee difference between the target configuration and the current configuration is C, then the total upgrade cost will be: T/30 x C.

Assume that you have an instance with 1 core, 1000 MB memory, and 100 GB disk (prepaid fee: 24.511 USD/month) and it will expire in 15 days. If you upgrade it to 1 core, 1000 MB memory, and 200 GB disk (prepaid fee: 34.653 USD/month), then the total upgrade cost will be: 15/30 x (34.653 - 24.511)=5.071 USD.

#### Exceeding instance disk capacity limit

To ensure business continuity, you need to upgrade your instance specifications or purchase additional disk capacity in time before disk capacity is used up.

When the size of the data stored on an instance exceeds its capacity limit, the instance will be locked and become read-only. You will not be able to write data to it. You will need to expand its capacity or delete some database tables in the console to unlock it.

To avoid a database from triggering the lock status repeatedly, a locked instance will be unlocked and allowed for reads and writes only when its remaining available capacity is more than 20% of its total capacity or is over 50 GB.

#### Traffic synchronization fee for disaster recovery instances

Data synchronization for disaster recovery instances in TencentDB for MySQL is currently free of charge. We will notify users when this feature is commercialized.

### Pay-as-You-Go

The pay-as-you-go tiered pricing model is based on usage duration.

Usage Duration	Tiered Pricing
0 hours < duration $\leq$ 96 hours	Tier 1 rate applies
96 hours < duration $\leq$ 360 hours	Tier 2 rate applies
Duration > 360 hours	Tier 3 rate applies

#### **Instance price**

#### Billing formula

Total fees = memory fees + storage capacity fees + backup capacity fees + traffic fees (currently free)

#### **Billable items**

Billable Item	Notes
Memory fees	The instance specification selected on the purchase page is pay-as-you-go and supports tiered pricing. For detailed prices, please see Product Pricing.
Storage capacity fees	The disk capacity selected on the purchase page is pay-as-you-go. For detailed prices, please see Product Pricing. The storage capacity stores data files, shared tablespaces, error logs, redo logs, undo logs, data dictionaries, and binlogs that are necessary for TencentDB for MySQL.
Backup capacity fees	TencentDB for MySQL offers a certain amount of backup capacity free of charge based on the region, which is equivalent to the sum of storage capacity of all two-node and three-node instances (including source instances) in your region. For more information on the fees for excessive backup capacity, please see Backup Space Billing.

Traffic fees

Public network traffic fees (currently free of charge).

#### Pay-as-you-go price

#### High-availability edition

Pagion	Memory (USE	D/GB/Hour)	Disk (USD/GR/Hour)		
negion	Tier 1	Tier 2	Tier 3	Disk (USD/GD/Hour)	
Guangzhou	0.0500	0.0400	0.0300	0.0005	
Qingyuan	0.0500	0.0400	0.0300	0.0005	
Shanghai	0.0500	0.0400	0.0300	0.0005	
Beijing	0.0500	0.0400	0.0300	0.0005	
Chengdu	0.0500	0.0400	0.0300	0.0005	
Chongqing	0.0500	0.0400	0.0300	0.0005	
Hong Kong (China)	0.0688	0.0516	0.0344	0.0002	
Taipei (China)	0.0688	0.0516	0.0344	0.0002	
Singapore	0.0705	0.0528	0.0352	0.0002	
Bangkok	0.0556	0.0417	0.0278	0.0002	
Mumbai	0.0556	0.0417	0.0278	0.0002	
Seoul	0.0556	0.0417	0.0278	0.0002	
Tokyo	0.0556	0.0417	0.0278	0.0003	
Silicon Valley	0.0550	0.0413	0.0275	0.0002	
Virginia	0.0444	0.0333	0.0222	0.0002	
Toronto	0.0265	0.0199	0.0133	0.0006	
Frankfurt	0.0550	0.0413	0.0275	0.0003	
Moscow	0.0556	0.0417	0.0278	0.0003	

#### **Read-only instances**

Region	Memory (USI	D/GB/Hour)	Disk (USD/GB/Hour)	
	Tier 1	Tier 2	Tier 3	
Guangzhou	0.0250	0.0200	0.0150	0.0003
Qingyuan	0.0250	0.0200	0.0150	0.0003
Shanghai	0.0250	0.0200	0.0150	0.0003
Beijing	0.0250	0.0200	0.0150	0.0003
Chengdu	0.0250	0.0200	0.0150	0.0003
Chongqing	0.0250	0.0200	0.0150	0.0003
Hong Kong (China)	0.0344	0.0258	0.0172	0.0001
Taipei (China)	0.0344	0.0258	0.0172	0.0001
Singapore	0.0352	0.0264	0.0176	0.0001
Bangkok	0.0278	0.0208	0.0139	0.0001
Mumbai	0.0278	0.0208	0.0139	0.0001
Seoul	0.0278	0.0208	0.0139	0.0001
Tokyo	0.0278	0.0208	0.0139	0.0002
Silicon Valley	0.0275	0.0206	0.0138	0.0001
Virginia	0.0222	0.0167	0.0111	0.0001
Toronto	0.0133	0.0099	0.0066	0.0003
Frankfurt	0.0275	0.0206	0.0138	0.0001
Moscow	0.0278	0.0208	0.0139	0.0002

### **Billing Examples**

#### Note:

The prices used in the following examples are for demonstration purposes only, which may vary depending on regions, campaigns, or policies. Please see the pricing page for actual prices.

#### Monthly subscription

#### Suppose that:

You purchase a monthly-subscribed high-availability TencentDB for MySQL instance with 4 cores, 8,000 MB memory, and 500 GB disk space in the Guangzhou Zone 3 for 1 month.

You purchase a monthly-subscribed high-availability TencentDB for MySQL instance with 4 cores, 8,000 MB memory, and 200 GB disk space in the Guangzhou Zone 4 for 1 month.

Total fees = memory fees + storage capacity fees + backup capacity fees

#### Memory fees and storage capacity fees

Calculation formula:

Memory fees + storage capacity fees = 2 x 114.93 USD/month + (500 GB + 200 GB) x 0.1014 USD/GB/month x 1 month = 300.84 USD

#### Backup capacity fees

The high-availability TencentDB for MySQL instance in Guangzhou Zone 3 has 500 GB storage capacity per month, and the one in Guangzhou Zone 4 has 200 GB storage capacity per month, so you can have 700 GB backup capacity free of charge in the Guangzhou region every month.

Usage of backup capacity that exceeds the free tier are calculated on an hourly basis according to the following rule. For example, if your data backups reach 800 GB and log backups reach 100 GB, your total backup capacity usage in Guangzhou will exceed 700 GB, and your hourly billable backup capacity will be 200 GB (800 + 100 - 700 = 200). Backup capacity fees (hourly) = 200 GB (usage of backup capacity that exceeds the free tier may change over time) x 0.000127 USD/GB/hour

#### Pay-as-you-go

Suppose you purchase a pay-as-you-go TencentDB for MySQL instance with 4 cores, 8,000 MB memory, and 500 GB disk space in the Guangzhou region for 400 hours.

Tier 1 fees: (0.0250 USD/GB/hour \* 8 GB + 500 GB \* 0.0003) \* 96 hours = 33.6 USD Tier 2 fees: (0.0200 USD/GB/hour \* 8 GB + 500 GB \* 0.0003) \* 264 hours = 81.84 USD Tier 3 fees: (0.0150 USD/GB/hour \* 8 GB + 500 GB \* 0.0003) \* 40 hours = 10.8 USD Instance fees = Tier 1 fees + Tier 2 fees + Tier 3 fees = 126.24 USD

### FAQs

#### Why are additional fees incurred for my monthly-subscribed instance?

Usage of backup capacity that exceeds the free tier will be charged. Please check whether your usage of backup capacity exceeds the free tier.

You can check the usage of backup capacity on the **Database Backup** page in the TencentDB for MySQL console. For more information about backup capacity pricing, please see Backup Space Billing.

#### Will Tencent Cloud charge for pay-as-you-go instances if they are idle?

Yes. If you stop using pay-as-you-go resources, please terminate them as soon as possible to avoid further fees.

#### What files are stored in the storage capacity?

Data files: the space which your data takes up, including created tables and indexes

System files (necessary for the database): shared tablespaces, error logs, redo logs, undo logs, and data dictionaries Binlogs: binlogs record all DDL and DML statements (except SELECT and SHOW statements) and are used to replicate and restore database data. The more data changes, the more binlogs. To reduce the space binlogs take up, they can be uploaded to COS.

### Documentation

You can purchase TencentDB for MySQL instances through the console or API. For more information, please see Purchase Methods.

TencentDB for MySQL sends alert messages to you before it expires and its resources are repossessed. For more information, please see Overdue Payment.

You can return TencentDB for MySQL instances and request a refund. For more information, please see Refund. You can adjust TencentDB for MySQL instances to a higher or lower specification. For more information, please see Instance Adjustment Fee.

# Selection Guide

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Before purchasing a TencentDB for MySQL instance, it is important to learn about the features of different instances so that you can select one that meets your business requirements.

### Instance Information

Prior to purchasing a TencentDB for MySQL instance, you must consider factors such as cost, performance, workload, and usage scenarios, so that you can select a suitable instance with optimal costeffectiveness. Since the database storage engine, instance architecture, storage type, and resource isolation policy are intricately intertwined and are mutually impacted, you may be confused when selecting an instance. This document briefly introduces these components to assist you in selecting an appropriate instance.

#### 1. Database Storage Engine

A storage engine refers to the type of tables. The storage engine of database determines the manner in which tables are stored in a computer.

**InnoDB**: The most frequently used OLTP storage engine, uses multi-version concurrency control (MVCC) and rowlevel locking technologies, offering high performance and reliable processing capabilities. In comparison to other MySQL storage engines, InnoDB offers functions including data foreign key and rollback, ensuring better data integrity. It also provides higher-level query functionalities. InnoDB kernel has been optimized a lot by Tencent Cloud and therefore has great performance advantages and is extensively applied in scenarios that involve high concurrency and require high performance.

**RocksDB**: A popular high-performance persistent key-value (KV) storage based on which Tencent's TXSQL team develops TXRocks, a transactional storage engine. TXRocks, benefitting from the LSM Tree storage structure of RocksDB, has significantly reduced the waste caused by InnoDB's half-full page and fragmentation mechanisms, and utilized compact format storage. In this way, compared with InnoDB, TXRocks provides similar performance with half the storage space. It's more suitable for business scenarios that involve a large volume of data and require high read and write performance.

#### 2. Instance Architecture

TencentDB for MySQL supports four types of instance architectures: single-node, two-node, three-node, and Cluster Edition.

	Cloud Native TKE master Underlying storage Cloud disk single node		D physical machine Source node	Data sync physical machine Source node Two-node		physical machine Source node	Data sync physical machine Replica node 1		
			Two				Three-node		
Archi	tecture	Descripti	on		Applical	ble Scenarios			
Singl Node	gle- ble Supported versions: MySQL 5.7 and 8.0. Node: Single Node. Supported versions: MySQL 5.7 and 8.0. Node: Single Node. Supported versions: MySQL 5.7 and 8.0. Supported versions: MySQL 5.7 and 8.0.					sites, non-core s, and the ronments of large ns.			
Two-	Node	Supported versions: MySQL 5.6, 5.7, and 8.0. Nodes: One Primary and One Standby. Primary-Standby Replication Mode: Asynchronous (default) and Semi- Synchronous				Gaming, internet, IoT, retailing e-commerce, logistics, insurance, and securities, etc.			
Three	e-Node	Supported versions: MySQL 5.6, 5.7, and 8.0. Nodes: One Primary and Two Standbys. Primary-Standby Replication Mode: Asynchronous (default), Strong- synchronous, and Semi-Synchronous			Gaming, internet, IoT, retailing e-commerce logistics, insurance, and securities, etc.				
Clust Editic	Supported Versions: MySQL 5.7, 8.0. Nodes: One read-write node and up to five read-only nodes. Primary-Replica Replication Method: Asynchronous, and semi-synchronous (default).				Gaming commen etc.	ı, internet, IoT, retailing rce, logistics, insuranc	g and e- e, and securities,		

#### 3. Storage Classification

The underlying storage of TencentDB for MySQL supports local SSD disks, SSD cloud disks, Enhanced SSD cloud disks, and Tremendous SSD cloud disks.

Performance	Tremendoust SSD Cloud Disk	Enhanced SSD Cloud Disk	SSD
metrics			



Maximum single disk capacity (GB)	30000	30000	30000
IOPS per Disk	After adding extra capacity, the performance reaches up to 1,000,000.	Additional performance overlay reaches 100,000	26000
Random IOPS Calculation Formula	Benchmark performance :Random IOPS = min{4000+Capacity(GiB)×100, 50000} Additional Performance :Maximum IOPS = min{Additional Performance Value×128, 950000}	Benchmark performance :Random IOPS = min{1800+capacity(GiB)×50, 50000} Additional performance :Maximum IOPS = min{Additional performance value×128, 50000} For details, see Enhanced SSD Cloud Block Storage Performance Description	Random IOPS = min{1800+capacity(GiB)×30 26000}
Maximum single disk Throughput (MB/s)	After adding extra capacity, the performance reaches up to 4000 MB/s.	Additional performance overlay achieves 1000MB/s	260MB/s
Throughput performance calculation formula (MB/s)	Benchmark performance :Throughput = min{120+Capacity(GiB)×0.5, 350} Additional Performance :Throughput = min{Additional Performance Value×1, 3650}	Benchmark performance :Throughput = min{120+Capacity(GiB)×0.5, 350} Additional performance: Throughput = min{Additional performance value×1, 650} For details, see Enhanced SSD Cloud Block Storage Performance Description	Throughput = min{120+Capacity(GiB)×0.2, 260}
Single-lane random read and write latency (ms)	0.1ms - 0.5ms	0.2ms - 1ms	0.5ms - 3ms

### 4. Resource Isolation Policy

The isolation policies for TencentDB for MySQL include Basic Type, General Type, Dedicated Type, Standard Type, and Enhanced Type.

Resource Isolation Policy	Description
Basic Type	Only single-node instances support the basic isolation policy (formerly basic edition), where there is a separation between computing and storage, with the underlying layer using cloud disk storage.
General Type	An instance exclusively utilizes allocated memory and disk resources while sharing CPU resources with other general instances on the same physical machine. Benefit from resource sharing, bringing higher cost-effectiveness and minor CPU resource reutilization.
Dedicated Type	An instance has dedicated CPU (with core binding), memory, and disk resources. It promises long-term performance stability and remains unaffected by the behavior of other instances on the physical machine. The peak configuration of the dedicated type is to occupy a physical machine alone, taking full control over all its resources.
Standard Type	Exclusive allocation of CPU and memory ensures long-term stable performance. A decoupled architecture of computing and storage offers flexible configuration options.
Enhanced Type	Enhanced frequency CPU cores deliver optimal performance. Exclusive allocation of CPU and memory ensures long-term stable performance. A decoupled architecture of computing and storage offers flexible configuration options. Supports Tremendous SSD cloud disk, providing stable and reliable performance.

### **Product Selection**

You can follow the following steps to select an instance:

#### 1. Selecting Database Storage Engine

If full transaction support and superior read-write concurrency are required, we recommend selecting InnoDB. If you want to cut down on storage costs, RocksDB would be the preferable choice. It provides comparable performance to InnoDB with only 50% or even less of the storage space.

#### 2. Selecting Instance Architecture

Generally, a two-node architecture employing a classic primary-standby high-availability architecture is recommended. It is appropriate for industries like Internet, IoT, retailing e-commerce, logistics, gaming, or medium to large corporations.

If your operations demand a financial-grade reliability, security, high availability, and disaster recovery abilities typical for industries such as finance, securities, insurance, or core database of large corporations, we recommend a three-



node architecture.

For personal learning, miniature websites, non-core small-scale enterprise systems, or the development and testing environments of large and medium-sized corporations, a single-node architecture would be a better choice.

#### 3. Selecting Storage Type

The current options for storage type include local SSD disks for instances using a two-node or three-node architecture. The options for single-node architecture instances are SSD CBS and advanced SSD CBS. In the Cluster Edition architecture, instances support the selection of storage types, including Tremendous SSD cloud disks, Enhanced SSD cloud disks, and SSD cloud disks.

The cloud disk architecture single-node instances, based on a cloud-native architecture, are suitable for testing, development, personal learning and other scenarios. They support up to 30 TB storage space. The storage size has an impact on IOPS.

For the performance metrics of different storage types, please refer to Storage Type.

#### 4. Selecting Resource Isolation Policy and Instance Specifications

The single-node architecture supports the basic isolation policy, while two-node and three-node architectures support both general and dedicated isolation policies. The Cluster Edition architecture supports standard and enhanced isolation policies. The parameters of the instance specifications include vCPUs, memory, maximum IOPS, and maximum storage capacity. You may select the appropriate specifications based on your business needs. **Note :** 

For details about all available models and selection options, please see Purchase Methods.

### **Related Documents**

Architecture Overview Resource Isolation Policy Database Instance Type Database Instance Replication Database Instance Specifications

# **Purchase Methods**

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### Prerequisites

A Tencent Cloud account is registered and identity verification is completed.

To register for a Tencent Cloud account, click Register for a Tencent Cloud account.

To complete identity verification, click to complete Identity Verification.

#### Note:

The updated purchase page now supports a one-click **Import Existing Configuration** feature. When logged in to an account with already created MySQL cloud database instances, this feature allows for a swift selection of configurations identical to those of existing instances. This facilitates quick adjustments based on existing configurations or direct purchases. The operational guide is as follows.

1. On the purchase page, click Import Existing Configuration in the upper right corner.



2. In the pop-up window, select the corresponding regional existing target instances and click OK.

🛇 Beijing	Other regi	selected instances as follows:	Instance ID/name			Q
Instance	e ID/N	<ul> <li>Billing Mode</li> <li>Begion</li> </ul>	ition	Databa	Engine	
cdb-		• AZ • Database Version	e(Local Disk) core1000MB/50GB t	MySQL8.0	InnoDB	
cdb-		<ul> <li>Database Engine</li> <li>Instance Architecture</li> <li>Instance Specification</li> <li>Network</li> </ul>	e(Local Disk) core1000MB/50GB te	MySQL8.0	InnoDB	
	,	<ul> <li>Security Group</li> <li>Project</li> <li>Tag</li> </ul>	e(Local Disk) lcore1000MB/50GB te	MySQL8.0	InnoDB	
cdb-40 cdb227		<ul> <li>Alarm Policy</li> <li>Data Replication Mode</li> <li>Character Set</li> <li>Table Name Case Sensitivity</li> </ul>	ide(Cloud Disk) pre2000MB/50GB C	MySQL8.0	InnoDB	
		Two-No	de(Local Disk)			
Total i	tems: 5		F N	1 / 1 pa	age 🕨 🕅	

### Purchasing in the console

#### Purchasing a two-node/three-node instance

1. Log in to the TencentDB for MySQL Purchase. Complete the **Basic Configuration** and **Instance Configuration** according to actual requirements, then click **Next: Set up Network and Database**.

#### **Basic Configuration**

Billing Mode: Monthly subscription and pay-as-you-go billing are supported.

If your business has a stable long-term demand, we recommend you select a monthly subscription.

If the request volume of your business fluctuates greatly and instantaneously, we recommend you select pay-as-yougo billing.

**Region**: Select the region where you want to deploy your TencentDB for MySQL instance. We recommend you use the same region as the CVM instance to be connected to. Tencent Cloud services in different regions cannot

communicate with each other over the private network. The region cannot be modified after purchase.

**Database Version**: Currently, TencentDB for MySQL supports MySQL 8.0, 5.7 and 5.6. For more information on the features of each version, see MySQL 5.7 Reference Manual.

#### Note:

It is recommended to use the more recent database versions of MySQL 8.0 and 5.7.



The Cluster Edition architecture only supports the selection of MySQL versions 8.0 and 5.7.

Engine: Select InnoDB or RocksDB.

InnoDB: The most commonly used OLTP storage engine, with complete transaction support and powerful capability of highly concurrent reading and writing.

RocksDB: A key-value storage engine, with efficient writing and high compression. If it is selected, the architecture will be two-node.

**Architecture**: Single-node, two-node, three-node or <u>Cluster</u> Edition architecture is supported. For more information, see <u>Overview</u>.

**Disk Type**: The disk, essential for storing files required for MySQL operation, is supported in two types by Tencent Cloud's MySQL database: local disk and cloud disk.

The disk type for both two-node and three-node configurations is local SSD disk.

The disk type for a single node is a cloud disk.

**Availability Zone**: Dual-node, triple-node, and cluster architectures allow for the selection of a primary availability zone and a secondary availability zone. Opting for different primary and secondary zones (i.e.multi-AZ deployment) enhances database protection against failures or disruptions within an availability zone.

For two-node and three-node architectures, it is necessary to select a source availability zone and a replica availability zone.

For Cluster Edition architecture, you must choose the number of read-only nodes, as well as the availability zones for both read-write and read-only nodes.

Number of Read-Only Nodes: By default, there are two read-only nodes, supporting manual selection of one to five nodes.

Read-Write Node Availability Zone: Select the availability zone for the read-write nodes.

Read-Only Node Availability Zone: Depending on the number of read-only nodes, sequentially select the availability zones for these nodes. The specific range of availability zones is subject to the actual purchase page. If the availability zones for the read-only nodes are not actively selected, the system will automatically allocate them.

#### Note:

If the primary and replica are in different AZs, the network sync delay may increase by 2–3 ms.

When you purchase Tencent Cloud services, we recommend you select the closest region to minimize access latency and improve download speed.

#### **Instance Configuration**

**Filtering**: Swiftly select the required instances of CPU and memory, with all CPUs and memory selected by default. **Type**: By default, single-node is of the Basic instance type. Two-node and three-node provide General and Dedicated instance types. Cluster Edition provides Standard and Enhanced instance types. For more details, see Isolation Policy.

Instance Specifications: Select specifications as needed.

**Hard Drive**: Utilized for storing the essential files required for MySQL operation, select the size of the hard drive space.

The single-node and Cluster Edition architecture is Cloud Disk. For information on disk types, see Disk Types.



Single-node supports SSD and Enhanced SSD Cloud Disks. The selectable disk capacities range from 20 to 30,000 GB.

The Cluster Edition supports Tremendoust SSD, Enhanced SSD, and SSD Cloud Disks. The selectable disk capacities range from 20 to 30,000 GB.

Data Protection Space: To ensure the recoverability of the database instances, Cluster Edition instances must allocate a designated amount of space specifically for data protection within the instances. This reserved space is not used for data storage and is categorized as system protection space, designed to prevent potential instance malfunctions resulting from data overflow. The setting range is 1 - 10 GB, with the default of 1GB.

Hard Disk	Enhanced SSD	^	-	200	+	GB
	SSD Cloud Disk		/s bandwidtl	ı		
	Enhanced SSD					

2. After completing the Network and Others, and Database Configuration Settings, proceed by clicking Next Step: Confirm Configuration Information.

#### **Network and Others**

**Network**: You can select the network and subnet for the instance. VPC is supported. If the existing networks do not meet your requirements, you can create a VPC or Subnet.

#### Note:

A subnet is a logical network space in a VPC. You can create subnets in different AZs in the same VPC, which communicate with each other over the private network by default.

After you select a network, the subnet IPs in the AZ of the selected instance are displayed by default. You can also select subnet IPs in other AZs in the region of the instance. Business connections adopt nearby access, so the network latency will not be increased.

We recommend you select the same VPC in the same region as the CVM instance to be connected to. Otherwise, the MySQL instance cannot connect to the CVM instance over the private network. If your region is absent in the setting, then set it as Default-VPC (by default).

Custom Port: The database access port, which is 3306 by default.

**Security Group**: For more information on security group creation and management, see TencentDB Security Group Management.

#### Note:

Port 3306 must be opened for the TencentDB for MySQL instance through the inbound rule of the security group. The instance uses private network port 3306 by default and supports a custom port. If the default port is changed, the MySQL new port information should be opened in the security group.

Project: Select a project to which the TencentDB instance belongs. The default project is used.

Tag: Categorize and manage resources with tags. For more information, see Tag Overview.

**Alarm Policy**: You can create an alarm policy to trigger alarms and send messages when the Tencent Cloud resource state changes. For more information, see Alarm Policies (Cloud Monitor).



#### **Database Configuration**

Instance Name: Name the instance now or later.

**Data Replication Mode**: For selecting a replication method for Non-single-node instances, see Database Instance Replication.

By default, two-node instances are configured for asynchronous replication. Two methods of replication (asynchronous and semi-synchronous) are provided for two-node instances.

By default, three-node instances are configured for asynchronous replication. Three methods of replication (asynchronous, semi-synchronous, and fully synchronous) are provided for three-node instances.

By default, Cluster Edition instances are configured for semi-synchronous replication. Two methods of replication (asynchronous and semi-synchronous) are provided for Cluster Edition instances.

**Parameter Template**: Besides the system parameter template provided by TencentDB, you can create a custom parameter template. For more information, see Managing Parameter Template.

**Character Set**: LATIN1, GBK, UTF8, and UTF8MB4 character sets are supported. The default value is UTF8. After purchasing the instance, you can change the character set on the instance details page in the console. For more information, see Use Limits.

**Sorting Rules**: The instance character set serves as the sorting rules provided by the system data, distinguishing between case-sensitive attributes and accent attributes.

**Case Sensitivity of Table Names**: Whether the table name is case sensitive or not, once the case setting for table names is specified in MySQL 8.0, it cannot be altered. Please proceed with caution.

**Password Complexity**: Only two-node, three-node, and Cluster Edition instances support setting of password complexity to enhance database security. It is disabled by default.For more information, see <u>Setting Password</u> Complexity.

**Root Password**: Set the password of the root account (the default user name for a new MySQL database is root). If you select **Set After Creation**, you can reset the password after creating the instance. For more information, see **Resetting Password**.

3. Confirm the selected configuration (if modifications are needed, you may click **Edit** to return to the corresponding step for adjustments), and read and check the service terms. After confirming the purchase duration and quantity, click **Purchase Now**.

4. You will be returned to the instance list after you purchase the instance. The instance will be in the **Delivering** status. You can use the instance after around 3–5 minutes when its status changes to **Running**.

Cre	Comparative Monitor	ing Restart Rene	ew More 🔻		Separate keywords	with " "; press Ente	r to separate filter tags		
	Instance ID/Name T	Monitoring/Status/Tas T k	AZ T	Configuration <b>T</b>	Database ▼ Version	Engine <b>T</b>	Private Network Address	<b>()</b>	Billing Mode
	1k Renew	<b>II</b> ⊙ Running	Shanghai Zone 3	Single-node(Cloud Di Basic-1core2000MB/ Network:	MySQL8.0	InnoDB			Monthly Subscriptior Expire at 2022-12-25 11:07:28

### Purchasing via APIs

For more information on how to purchase TencentDB instances via an API, see CreateDBInstanceHour.

### Subsequent operations

Connecting to MySQL Instance

## Renewal

Last updated : 2022-06-13 17:22:36

This document describes how to renew a TencentDB for MySQL instance in the console or renewal management center.

### Prerequisites

The instance to be renewed must be monthly subscribed.

### Renewal in Console

#### Setting auto-renewal

#### Note:

You don't need to set auto-renewal for instances already with monthly auto-renewal enabled.

1. Log in to the TencentDB for MySQL console, select one or multiple instances in the instance list, and select More >

Enable Auto-Renewal at the top.

2. In the pop-up window, confirm that everything is correct and click OK.

#### Note:

If "The instance will be automatically renewed for one month upon expiration" is displayed, monthly auto-renewal is enabled for the instance.

#### Manual renewal

#### Option 1

1. Log in to the TencentDB for MySQL console, select one or multiple instances in the instance list, and select **Renew** at the top.

2. In the pop-up window, select the renewal period and click OK.

#### Note:

You can select **By month** or **By year** for **Renewal Period**. A six-month renewal period is selected as shown below. 3. On the order confirmation page, confirm that everything is correct and make the payment.

#### Option 2

Log in to the TencentDB for MySQL console, click an instance ID in the instance list to enter the instance details page, and click **Renew** in **Configuration Info**.

### Renewal in Renewal Management Center

The Renewal Management page provides features such as **Batch Renewal**, **Set to Auto-Renewal**, **Set to Non-Renewal**, and **Unify Expiry Date** for instances. For more information, see Renewal Management.

# Payment Overdue

Last updated : 2023-08-10 16:50:56

#### 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.

### Monthly Subscribed TencentDB Instance

#### Alerts

From seven days before your resource expires until the resource is released, the system will send alerts to your Tencent Cloud account creator, global resource collaborators, and financial collaborators via email, SMS, and other methods as configured in the message subscription in the Message Center.

#### Repossession

The system will send you a renewal notification 7 days before the expiration of database resources.

You can continue using the database for an additional 7 days after the expiration. The system will send you an expiration reminder for the database, and you need to renew it as soon as possible.

From the eighth day after the expiration, the database cannot be used and will be put into the recycle bin. You can view and renew it on the recycle bin page in the console.

The database will be retained in the recycle bin for up to **seven days**. If you fail to renew it within seven days after it is put into the recycle bin, it will be repossessed by the system, and all the data will be cleared and cannot be recovered. In other words, the database will remain **available for 7 days** after the expiration and become **unavailable for another 7 days**. Within the 14 days, you can choose to renew it. If your balance is sufficient and auto-renewal is set for it, the system will perform renewal automatically upon expiration.

### Pay-as-You-Go TencentDB Instance

#### Note:

After you stop using pay-as-you-go resources, **terminate them as soon as possible** to avoid fee deduction. Since your actual resource consumption is constantly changing, some slight discrepancies may exist for your stated balance.

#### Alerts

Pay-as-you-go resources are billed on the hour. When your account balance becomes negative, the system will send an alert to your Tencent Cloud account creator, global resource collaborators, and financial collaborators via email, SMS, and other methods as configured in the message subscription in the Message Center. For more information on the message notification mechanism, see Postpaid Billing.

#### **Overdue payment policy**

#### 1. When your account balance becomes negative:

You can continue to use your TencentDB instance for 24 hours. We will continue to bill you for this period. After 24 hours, the TencentDB instance will be automatically shut down, and the billing will stop.

#### 2. After automatic shutdown:

If the overdue payment is paid within three days, you can start the instances, and the billing will continue.

After three days of shutdown, the TencentDB instance will be repossessed by Tencent Cloud. All data will be erased and cannot be recovered. Tencent Cloud account creator, global resource collaborators, and financial collaborators will be notified by email, SMS, etc.



# Refund

Last updated : 2023-02-07 15:22:08

Monthly subscription (prepaid): You can return TencentDB for MySQL instances and request a refund (non-full). Pay-as-you-go (postpaid): TencentDB for MySQL will return resources directly, and no refund can be requested. You can return monthly subscribed and pay-as-you-go instances in the instance list in the TencentDB for MySQL console.

### **Returning Instances**

When a monthly subscription instance is returned and its status has changed to **Isolating**, it will no longer generate fees.

After an instance is terminated, its data will not be recoverable. You need to back up the data in advance.

As database backups will be deleted when an instance is terminated, you need to download the backups in advance. As database audit will be deleted when an instance is terminated, you need to download the the database audit log in advance.

After a monthly subscribed instance is terminated, its IP resources will be released simultaneously, and the instances cannot be accessed. If the instance has read-only or disaster recovery instances:

Read-only instances will be terminated at the same time.

Disaster recovery instances will disconnect their sync connections and be promoted to source instances automatically. When a monthly subscribed instance is returned, it is retained in the recycle bin for 7 days, where it cannot be accessed. To restore the instance, go to the recycle bin and renew it.

Tencent Cloud has the right to reject any suspected abnormal or malicious application for return.

Certain resources purchased during promotions may not be eligible for return. You can check the latest information on the official website.

### Standard Returns

Fees for consumed resources will be deducted from the refund. The remaining amount will be returned to your Tencent Cloud account by the proportion of the cash and voucher amount paid for the purchase.

#### Standard return policies

#### Refund amount = Current Orders + Future Orders - Consumed Resources Fees

Current orders: The amount paid for current orders, excluding discounts and vouchers.

Future orders: The amount paid for future orders, excluding vouchers.

Fees for consumed resources are calculated based on the following policies:

For the used part, if the usage has lasted at least one month as of the date of downgrade, 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 refunded amount  $\leq 0$ , it is considered 0, and resources are deleted.

#### Note:

Discounts and vouchers will not be returned.

The refund will be returned to your Tencent account by the proportion of the cash and free credit paid for the purchase.

### **Related Operations**

For more information on how to return instances in the console, see Terminating Instance.

# Pay-as-You-Go to Monthly Subscription

Last updated : 2023-07-26 16:08:52

The billing mode of TencentDB for MySQL can be changed from pay-as-you-go to monthly subscription. TencentDB for MySQL implements this change by generating renewal orders, so you need to make the corresponding payment promptly to ensure the billing mode change is successful.

#### Note:

Rest assured that access to your business will not be affected during the billing switch from pay-as-you-go to monthly subscription.

### Directions

1. Log in to the TencentDB for MySQL console, select the target instance in the instance list, and click More > Pay-

as-You-Go to Monthly Subscription in the Operation column.

2. In the pop-up window, select the renewal length, check the box to agree to the rules of the pay-as-you-go to monthly subscription billing mode change, and click **Switch Now**.

#### Note:

You can also select auto-renewal to automate your subsequent renewals.

# Instance Adjustment Fee

Last updated : 2023-02-07 15:22:08

#### ## Billing Mode for Upgraded Instances

If you upgrade a monthly subscribed database instance, the price difference between original and upgraded specifications is deducted from your account. If the account balance is insufficient, you need to top it up. The upgraded instance will be billed by the new specification.

When a pay-as-you-go instance is upgraded, it will be billed based on the new specifications in the next billing cycle.

### Billing Method for Downgraded Instances

#### **Billing Description for Downgrade**

#### Monthly subscription

If you degrade a monthly subscribed database instance, the price difference is calculated according to the following formula:

# Refund amount = Remaining amount for the original configuration - Purchase price of the new configuration

Description:

Remaining amount for the original configuration: The amount obtained by \*\*the effective order amount of the original configuration minus the consumed amount for the original configuration.

The effective order amount of the original configuration: The amount paid for the order in effect, excluding discounts and vouchers.

The consumed amount for the original configuration is calculated based on the following rules:

For the used part, as of the day when downgrade is initiated, if the usage has lasted for one month or longer, 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.

Purchase price of the new configuration: The current official price of the new configuration x the remaining usage duration.

#### Note:

Discounts and vouchers will not be returned.

The refund will be returned to your Tencent Cloud account by the proportion of the cash and free credits paid for the purchase.

If the refund amount is  $\leq 0$ , it will be calculated as 0, that is, the refund amount will be 0.

#### Pay-as-you-go

If you choose to degrade a pay-as-you-go database instance, it will be billed at the tier 1 pay-as-you-go price for the new configuration.

### **Relevant Documentation**

TencentDB for MySQL supports flexible scaling that allows you to quickly adjust instance specifications. For related operations, see Adjusting Database Instance Specification

# Backup Space Billing

Last updated : 2024-06-20 15:45:30

### Overview

The backup space is used to store the backup files (automatic data backups, manual data backups, and log backups) of all TencentDB for MySQL instances in a region. TencentDB for MySQL supports transition-to-cold storage, so automatic data backups include non-archive data backups, standard storage backups, and archive storage backups, and log backups include non-archive log backups, standard storage log backups, and archive storage log backups. For two-node and three-node instances of local disk edition, TencentDB for MySQL offers free-of-charge backup space per region, which equals to the sum of the storage space of all two-node and three-node instances (including the source and disaster recovery instances) in the region. For calculation examples, see Calculation Formula.

# Free backup space will be provided when you purchase a source or disaster recovery instance but not a read-only instance.

The backup space of instances of local disk edition can be viewed on the **Database Backup** page in the **TencentDB** for MySQL console.

The free space is not applicable to transition-to-cold storage.

For both single-node (cloud disk edition) instances and Cluster Edition (cloud disk edition) instances, TencentDB for MySQL offers a free tier of backup space at the instance level, which equals to 200% of the storage space of each instance.

#### Note:

The backup space of instances of cloud disk edition can be viewed on the **Backup and Restoration** tab.



### Free Tier Comparison

Storage Type	Free Tier	Level



Cloud disk	200% of the storage space	Regarding instance dimensions, such as a single-node cloud disk edition instance or a Cluster Edition instance with a storage space of 50 GB, the instance is granted a free backup space of 100 GB.
Local disk	100% of the storage space	Region level. For example, if Tencent Cloud account A has two two-node instances in Beijing region with a storage space of 50 GB and 80 GB respectively, the account enjoys a free tier of backup space of 130 GB in Beijing region.

### Backup Pricing of Single-Node Instances of Cloud Disk Edition

Backup space in excess of the free tier is priced at 0.00003676 USD/GB/hour in the Chinese mainland and 0.00004118 USD/GB/hour outside the Chinese mainland.

Single-node instances of cloud disk edition are currently supported in Shanghai, Beijing, Guangzhou, Chengdu, Hong Kong of China, Singapore, Frankfurt, with more regions to come in the future.

### Cluster Edition (Cloud Disk Edition) Backup Pricing

For backup space exceeding the free quota, charges in Chinese Mainland regions are at a rate of \$0.00003676 per GB per hour, while other regions are charged at \$0.00004118 per GB per hour. The Cluster Edition (cloud disk edition) instances are currently available in the following regions: Shanghai, Beijing, Guangzhou, Chengdu, Hong Kong of China, Singapore, and Frankfurt, with other cities to be available gradually in the future.

### Local Disk Backup Pricing

For backup storage exceeding the free quota, charges in Chinese Mainland regions are at a rate of \$0.0000003 per GB per second, while other regions are charged at \$0.0000004 per GB per second. If the charged space is less than 1 GB, no actual fees are incurred, and periods less than one hour are billed as one hour. TencentDB for MySQL offers a flexible gifting policy, meaning the vast majority of instances do not require payment for backup space.

### Notes on Cross-Region Backup and Billing

TencentDB for MySQL supports cross-region backup for compliance or disaster recovery. You can enable this feature in the console as instructed in Cross-Region Backup. Once enabled, cross-region backup doesn't affect the local

default backup, and they can both coexist with their own retention periods. Upon completion, the automatic backup is dumped to the storage device for cross-region backup.

#### Note:

Cross-region backup and log files cannot use the free storage space; instead, they use the space in the backup region of the source instance.

Cross-region backup space is priced at 0.000113 USD/GB/hour in the Chinese mainland and 0.000127 USD/GB/hour outside the Chinese mainland.

The cross-region backup feature is currently available in Beijing, Shanghai, Guangzhou, Shenzhen, and Chengdu, with more regions to come in the future.

### Transition-to-Cold Storage Billing

TencentDB for MySQL supports transition-to-cold storage for backup files to reduce the backup storage costs. You can configure to transition backup files to standard storage and then to archive storage in the console as instructed in Configuring Transition-to-Cold Storage. The prices of these two storage types are as follows:

#### Note:

The free space is not applicable to transition-to-cold storage.

The archive storage type isn't available yet.

#### Standard storage pricing

Standard storage fees are charged in a pay-as-you-go (postpaid) manner at the storage price of the region as listed below:

Region	Price (USD/GB/Hour)
Beijing, Nanjing, Shanghai, Guangzhou	0.00002651
Chengdu, Chongqing	0.00002224
Virginia	0.00002808
Silicon Valley	0.00002921
Tokyo, Toronto, Frankfurt	0.00003325
Singapore	0.00003775
Hong Kong (China), Seoul, Bangkok, São Paulo, Jakarta	0.00003505
Shenzhen Finance, Shanghai Finance	0.0000674

#### Archive storage pricing

Archive storage fees are charged in a pay-as-you-go (postpaid) manner at the storage price of the region as listed below:

Region	Price (USD/GB/Hour)
Beijing, Nanjing, Shanghai, Guangzhou	0.00000741
Chengdu, Chongqing, Silicon Valley, Virginia	0.00000674
Toronto, Frankfurt	0.00000696
Hong Kong (China), Tokyo, Seoul, Bangkok, São Paulo, Singapore	0.00000764
Shenzhen Finance	0.00002247

### Billing Schedule for Backup Space

Billing officially started from 00:00 on December 2, 2019 for Hong Kong (China), Macao (China), Taiwan (China), and other regions outside the Chinese mainland.

Billing officially started from 00:00 on December 2, 2019 for Southwest China (Chengdu and Chongqing regions),

South China (Shenzhen Finance), East China (Shanghai Finance), and North China (Beijing Finance).

Billing officially started from 00:00 on December 5, 2019 for South China (Guangzhou region).

Billing officially started from 00:00 on December 9, 2019 for North China (Beijing region).

Billing officially started at 00:00 on December 10, 2019 for East China (Shanghai region).

Billing is started by default for regions added after 00:00 on December 10, 2019.

### **Calculation Formula**

Backup space calculation formula for instances of local disk edition: Free backup space in one region = Sum of storage space of all TencentDB for MySQL two-node and three-node instances in that region Paid backup space in one region = Data backup volume + log backup volume - free backup space (all values are for that region) Backup space calculation formula for instances of cloud disk edition: Free backup space of one instance = 200% of the storage space of that instance Paid backup space of one instance = data backup volume + log backup volume - free backup space (all values are for that instance) Note:



Backups of TencentDB for MySQL instances in the recycle bin will also be counted into the total backup space.

#### **Calculation Example**

If you have a running a TencentDB for MySQL two-node instance with a purchased database storage space of 500 GB/month in Guangzhou Zone 3 and another such instance with a purchased database storage space of 200 GB/month in Guangzhou Zone 4, you will get a free backup space of 700 GB/month in the Guangzhou region. If your data backups reach 800 GB and log backups reach 100 GB in the current hour, your total backup space used in Guangzhou region will exceed 700 GB, and you will be billed for the excess of 200 GB (800 + 100 - 700 = 200) for the current hour and so on.

### **Backup Lifecycle**

#### Monthly subscribed instance

Backups are subject to change over the instance lifecycle.

The backup feature can be used normally **within seven days** after an instance expires, during which backups beyond the free tier will still be billed.

From the eighth day after expiration, the instance is isolated and moved into the recycle bin. At this time, automatic backup stops, and rollback and manual backup are prohibited, but backups can still be downloaded in the Backup List page. Excessive backup space will still be billed until the instance is eliminated. You can renew the instance in the recycle bin in the console to recover it.

After seven days since the instance has been isolated in the recycle bin, the instance is eliminated (i.e., deleted completely) along with all data backups. Save the needed backups in a timely manner.

#### Pay-as-you-go instance

Backups are subject to change over the instance lifecycle.

Backups can work normally within 24 hours after the instance payment becomes overdue.

After 24 hours since the instance payment has been overdue, the instance is isolated and moved into the recycle bin. At this time, automatic backup stops, and rollback and manual backup are prohibited, but backups can still be downloaded on the Backup List page. Excessive backup space will still be billed until the instance is eliminated. You can renew the instance in the recycle bin in the console to recover it.

After three days since the instance has been isolated in the recycle bin, the instance is eliminated (i.e., deleted completely) along with all data backups. Save the needed backups in a timely manner.

### Payment Overdue

#### Monthly subscribed instance

If the instance has not expired but your account has overdue payments, the backup service is downgraded, rollback, manual backup, and backup download are prohibited, but automatic backup continues, where excessive backup space is still billed.

If you need to perform rollback, manual backup, or backup download, top up your account to a positive balance.

#### Pay-as-you-go instance

After the account has overdue payments, the backup will change with the lifecycle of the instance. For more information, see the backup lifecycle of pay-as-you-go instances as described above.

### Upgraded Services Available After Backup Billing Starts

#### Note:

The values listed in the table below are the maximum values supported in the same region under a single Tencent Cloud account.

Improvement	Before Upgrade	After Upgrade
Data backup retention period	30 days	1,830 days
Log backup retention period	5 days	1,830 days
Backup compression rate	General	Ultra high
Binlog centralization	Local storage	Centralized storage

### Suggestions for Reducing Backup Costs

Delete manual backups that are no longer used. You can log in to the TencentDB for MySQL console, click an instance ID or **Manage** in the **Operation** column to access the instance management page, and delete manual backups on the **Backup and Restore** tab. Automatic backups cannot be manually deleted in the console. Instead, they are automatically deleted after they expire.

Reduce the frequency of automatic data backup for non-core businesses. You can adjust the backup cycle and backup file retention period in the console, which should be at least twice a week.

#### Note:

The rollback feature relies on the backup cycle and retention days of data backups and log backups (binlog). Rollback will be affected if you reduce the automatic backup frequency and retention period. You can select the parameters as needed. For more information, see Rolling back Databases.

Shorten the retention period of data and log backups for non-core businesses. A retention period of seven days can meet the needs in most cases.

Configure the transition-to-cold storage policy to transition backup files and reduce the storage costs. For more information, see Configuring Transition-to-Cold Storage.

Business Scenario	Recommended Backup Retention Period
Core businesses	7-1,830 days
Non-core, non- data businesses	7 days
Archival businesses	7 days. We recommend that you manually back up data based on your actual business needs and delete the backups promptly after use
Testing businesses	7 days. We recommend that you manually back up data based on your actual business needs and delete the backups promptly after use

# **Database Audit Billing Overview**

Last updated : 2023-07-26 15:42:07

Database Audit currently supports TencentDB for MySQL 5.6, 5.7, and 5.8 (two-node and three-node) instances but not TencentDB for MySQL 5.5 or single-node instances. This document describes the billing of TencentDB for MySQL audit.

You need to pay for database audit only after it is enabled. For details, see [Enabling Database Audit] (https://intl.cloud.tencent.com/document/product/236/52086)

Database audit is billed by the stored log size for every clock-hour, and usage duration shorter than one hour will be calculated as one hour.

	Price (USD/GB/Hour)		
Region	Frequent Access Storage	Infrequent Access Storage	
China (including finance regions, Hong Kong, Macao, and Taiwan)	0.00147059	0.00018382	
Other countries and regions	0.00220588	0.00027573	

### Frequent/Infrequent Access Storage

Frequent access storage represents an ultra-high-performance storage media with the best query performance. You can set the storage period, during which the audit data will be stored in the frequent access storage, but the data exceeding the period will be automatically transitioned to infrequent access storage. Different storages support the same audit capabilities with different performances.

You can set and modify the time period for frequent/infrequent access storage as needed, and the system will automatically move data between the frequent and infrequent access storage tiers based on the period, thus reducing your storage costs.

#### Frequent/Infrequent storage architecture



As shown in the picture, If the data of the last 7 days is set to be stored in frequent access storage, older data will be automatically transitioned to infrequent access storage. After the frequent access storage period is extended, the audit data that falls in the period will be automatically migrated from infrequent access storage to frequent access storage.

#### Performance differences between frequent and infrequent access storage

Frequent access storage throughput	Infrequent access storage throughput
110,000 SQLs/per second	25,000 SQLs/per second

### **Release Description**

After database audit is enabled for a pay-as-you-go/monthly subscribed TencentDB for MySQL instance, when you release an instance or an instance is released upon expiration, its corresponding audit service will also be stopped, and the logs will be automatically deleted and cannot be recovered.

### **Overdue Payments**

1. When your account balance becomes negative:

You can continue to use your database audit for 2 hours from the moment your account becomes negative. We will also continue to bill you for this period.

When your account has overdue payments for two hours, the database audit service will be automatically stopped, and the billing will stop.

2. After the service is automatically stopped:

If you top up your account to a positive balance within 24 hours after the database audit is automatically stopped, it will be resumed, and the billing will continue; otherwise, it cannot be resumed.

If your account balance remains negative after 24 hours, the logs will be deleted and cannot be recovered.

# Commercial Billing and Activity Description for Database Proxy

Last updated : 2024-02-23 10:14:46

The database proxy is a network proxy service between TencentDB and the application service, serving to delegate all requests made by the application service as it accesses the database. The database proxy offers advanced features such as automatic read/write separation, transaction split, and connection pool, featuring high availability, outstanding performance, maintainability, and user-friendly operation. This document will provide you with a guide to the commercial billing and activities of TencentDB for MySQL's database proxy.

### I. Commercial Billing Overview

#### **Billing Time**

Billing for the TencentDB for MySQL database proxy will start on April 1, 2024, at 16:00:00 Beijing Time.

#### **Billing Mode**

At present, only pay-as-you-go billing is supported.

#### **Pricing for Database Proxy**

TencentDB for MySQL database proxy adopts pay-as-you-go billing, where the billing item is CU. The pricing of the database proxy varies by region, as displayed in the table below.

#### Note:

The term CU refers to the minimum billing specification of the database proxy (i.e. the price for a 2-core proxy specification with 4,000 MB memory). There are three specifications for the database proxy node: a 2-core one with 4,000 MB memory, a 4-core one with 8,000 MB memory, and an 8-core one with 16,000 MB memory. These correspond to 1 CU, 2 CU, and 4 CU respectively.

Region	Price (USD/CU/Hour)
Shanghai, Nanjing, Chongqing, Chengdu, Guangzhou, Beijing	0.06865672
Hong Kong (China)	0.11492537
Mumbai, Jakarta, Virginia, Bangkok, Tokyo, Singapore, Seoul, Toronto, Frankfurt, Silicon Valley, São Paulo	0.11791045
Shenzhen Finance, Beijing Finance, Shanghai Finance	0.11641791

#### Note:

The regions displayed above represent all the regions where the current instance supports deployment. Some regions do not yet support the database proxy feature. The regions that do support it include Beijing, Shanghai, Guangzhou, Shanghai Finance, Beijing Finance, Chengdu, Chongqing, Nanjing, Hong Kong (China), Tokyo, Bangkok, Virginia, Silicon Valley, Mumbai, Seoul, and Singapore.

#### **Database Proxy Fees Formula**

Database proxy fees = (customer-selected proxy node specification/a 2-core one with 4,000 MB memory) x number of nodes x unit price x usage duration

#### Example:

If a customer activates a database proxy in the Beijing region and sets four 8-core proxy specifications with 16,000 MB memory, thereby using a total of 28 hours, then at this moment the cost of the customer's database proxy corresponds to:

(an 8-core one with 16,000 MB memory/a 2-core one with 4,000 MB memory) x 4 x 0.06865672 USD x 28 = 30.7582106 USD

### II. Discount Overview

TencentDB for MySQL Database proxy's business billing policy, including any applicable discounts for both new and existing customers, is detailed as follows.

#### Definition

Noun	Description
Existing Customer	TencentDB for MySQL will record the proxy's initiation case at the time of official commercial billing time (on April 1, 2024, at 16:00:00 Beijing time). Customers possessing effective proxy nodes at this moment will be considered as existing customers.
New Customer	As of the official commercial billing time (on April 1, 2024, at 16:00:00 Beijing time), TencentDB for MySQL will record the activation status of the database proxy. Any customers who have no proxy node in operation as of this time will be considered as new customers. <b>Note:</b> Customers who previously activated a database proxy before the start of official commercial billing but deactivated it before the official billing times are also new customers.
Total Discounted Volume	For existing customers: Total Discounted Volume refers to the database proxy's total amount of discount, which is automatically calculated based on the customer's actual

database proxy activation status as recorded at the official commercial billing time (on
April 1, 2024, at 16:00:00 Beijing time).
For new customers: The discounted scope for each Tencent Cloud UIN account is limited
to 3 instances, each of which is equipped with a total discounted volume of a 32-core one
with 64,000 MB memory (16 CU).

#### **Discount for Existing Customers**

After the billing starts, the total discounted volume for the existing customers' database proxy can continue to be used for a trial period of three months. Subsequently, three months later (on July 1, 2024, at 16:00:00), these database proxy specifications will be charged at the regular service price.

#### **Promotions in Discounted Period**

Scenario	Description	Example (Take the instance with a total discounted volume of a 16-core one with 32,000 MB memory as an example.)
Adjusting the node specifications	After the adjustment of the total discounted volume in the instance, the corresponding database proxy node can be used for free for three months from the official billing time.	Adjusting the node specification to an 8-core one with 16,000 MB memory. The instances that do not exceed the total discounted volume still enjoy the free promotions.
	After the adjustment, if the total discounted volume of the instance exceeds the discount limit, an additional fee will be charged for the surplus.	Adjusting the node specification to a 32-core one with 64,000 MB memory. The instances that exceed the total discounted volume with the exceeding portion (a 16-core one with 32,000 MB memory) require payment, while the remainder is free.
Adjusting the number of nodes	After the adjustment of the total discounted volume in the instance, the corresponding database proxy node can be used for free for three months from the official billing time.	Reducing the number of nodes from four to two, and adjusting the total proxy specifications from a 16-core one with 32,000 MB memory to an 8- core one with 16,000 MB memory. The instances that do not exceed the total discounted volume still enjoy the free promotions.
	After the adjustment, if the total discounted volume of the instance exceeds the discount limit, an additional fee will be charged for the surplus.	Increasing the number of nodes from four to five, and adjusting the total instance proxy specification from a 16-core one with 32,000 MB memory



		to a 20-core one with 40,000 MB memory. The instances that exceed the total discounted volume with the exceeding portion (a 4-core one with 8,000 MB memory) require payment, while the remainder is free.
Adjusting the Availability Zone	Only the Availability Zone is adjusted, and the proxy specification does not change. The corresponding database proxy node is free for three months from the official billing time.	The switch from Beijing Zone 6 to Beijing Zone 7 does not affect the proxy specifications. The proxy specifications within the total discounted volume of the instance continue to enjoy the free promotions.
Adjusting the Kernel Minor Version of Database Proxy	Only the version is adjusted, and the proxy specification does not change. The corresponding database proxy node is free for an additional three months after official billing begins.	Database proxy minor version upgraded from 1.3.7 to 1.3.8, and the proxy specifications remain unchanged. Under the total instance discount amount, the proxy specification continues to enjoy free promotions.
Returning Instances	When returning the discounted instances, the discount qualification ceases to apply.	-
	Refunds do not apply to instances that did not receive a discount; since the instance itself did not receive any discount, there is no consideration regarding any discounted changes.	-

#### **Discount for New Customers**

Starting from the official billing time, a Tencent Cloud UIN account is eligible to enjoy a 15-day free trial of database proxy features for three instances. Additionally, the total discounted volume for each instance's database proxy node is up to a 32-core one with 64,000 MB memory.

#### **Promotion Details Table**

Scenario	Description	Example (Take the instance with a total discounted volume of a 32-core one with 64,000 MB memory as an example.)
Adjusting the number of nodes	After the adjustment of the total discounted volume in the instance, the corresponding database proxy	Reducing the number of nodes from four to two, and adjusting the total proxy specifications from a 32-core



	node can experience a 15-day free trial when the database proxy is activated.	one with 64,000 MB memory to a 16- core one with 32,000 MB memory. The instances that do not exceed the total discounted volume still enjoy the free promotions.
	After the adjustment, if the total discounted volume of the instance exceeds the discount limit, an additional fee will be charged for the surplus.	Increasing the number of nodes from four to five, and adjusting the total instance proxy specification from a 32-core one with 64,000 MB memory to a 40-core one with 80,000 MB memory. The instances that exceed the total discounted volume with the exceeding portion (an 8-core one with 16,000 MB memory) require payment, while the remainder is free.
	After the adjustment of the total discounted volume in the instance, the corresponding database proxy node is free for 15 days from the official billing time.	Adjusting the node specification to an 8-core one with 16,000 MB memory. The instances that do not exceed the total discounted volume still enjoy the free promotions.
Adjusting the node specifications	After the adjustment, if the total discounted volume of the instance exceeds the discount limit, an additional fee will be charged for the surplus.	Adjusting the node specification to a 40-core one with 80,000 MB memory. The instances that exceed the total discounted volume with the exceeding portion (8-core one with 16,000 MB memory) require payment, while the remainder is free.
Adjusting the Availability Zone	Only the Availability Zone is adjusted, and the proxy specification does not change. The corresponding database proxy node is free for 15 days from the official billing time.	The switch from Beijing Zone 6 to Beijing Zone 7 does not affect the proxy specifications. The proxy specifications within the total discounted volume of the instance continue to enjoy the free promotions.
Adjusting the Kernel Minor Version of Database Proxy	Only the version is adjusted, and the proxy specification does not change. The corresponding database proxy node is free for an additional 15 days after official billing begins.	Database proxy minor version upgraded from 1.3.7 to 1.3.8, and the proxy specifications remain unchanged. Under the total instance discount amount, the proxy specification continues to enjoy free promotions.

Returning Instances	When returning the discounted instance, the discount qualification for that instance concurrently ceases to apply, reducing the count of discounted instance qualifications under the same UIN account by one.	For the instance under UIN account 1000*23412, after the activation of a new database proxy, the instance would lose its eligibility for offers upon refund. This leads to the decrement of the instance count, eligible for offers under this UIN account, by one leaving only two instances eligible for ongoing offers.		
	Refunds do not apply to instances that did not receive a discount; since the instance itself did not receive any discount, there is no consideration regarding any discounted changes.	-		

### III. Bill Description

You can inquire about the charges incurred by employing the TencentDB for MySQL Database proxy service via the **Billing Center** in Tencent Cloud Console, which aids your understanding of the billing situation for using this feature. For the specific query operation, see Viewing Bills.

# Description of the Database Proxy Billing Cycle

Last updated : 2024-07-29 10:08:13

This document describes the billing cycle for the TencentDB for MySQL database proxy service.

### Description

The billing cycle for the database proxy service starts when the instance's database proxy is enabled and ends when the database proxy is disabled. If the database proxy is not disabled after being enabled, the billing cycle lasts from the database proxy enabling to the instance's termination/elimination.

### When Does the Database Proxy Start Being Billed?

Billing starts immediately when your TencentDB for MySQL instance is enabled with the database proxy, if it does not meet the new customer discount policy. The new customer discount policy stipulates that users who have not enabled the database proxy before the commercial billing time (16:00:00 on April 1, 2024 Beijing Time (UTC+8)) can enjoy a 15-day free trial of the database proxy feature for up to 3 instances under one Tencent Cloud UIN account. Each instance is entitled to a discount of up to 32 cores and 64,000 MB for its database proxy nodes. After the free trial ends, if you do not need to use the database proxy, you can disable it. If you need to continue using the database proxy, the instance's database proxy will be billed normally by usage. For details, see New Customer Discount Policy.

### When Does the Database Proxy Stop Being Billed?

The database proxy stops being billed under the following circumstances:

The database proxy has been disabled for the instance. In this case, billing for the database proxy will stop immediately.

When an instance with an enabled database proxy is terminated/eliminated and enters the isolated state, billing for the database proxy will stop immediately.

The lifecycle of a monthly subscription instance allows access for up to 7 days after expiration. After 7 days, the instance will enter the isolated state, and after another 7 days, it is eliminated. If the billing mode is monthly subscription and the instance with an enabled database proxy expires, the database proxy will continue to be billed during the 7 days in which the instance can still be accessed. Once the instance enters the isolated state after the 7 days, billing for the database proxy will stop.

# **Viewing Bills**

Last updated : 2024-02-23 10:13:36

You can view your available account balance, transaction details, the charges incurred by the use of TencentDB for MySQL, and other recharge and remittance services for your account through Tencent Cloud's Billing Center. This document guides you on how to examine the charges incurred by the use of TencentDB for MySQL via the console.

### Directions

1. Log in to the TencentDB for MySQL console.

2. In the upper right navigation bar **Billing Center**, click **Billing Center** to enter the Billing Center overview page. Note:

On the Billing Center overview page, you can query the available balance, overdue payments, and frozen amount under your account. You can also perform operations such as recharging and remitting to your account.

Outstanding Amount (			Promo voucher
USD	Pay Now Auto Payment Mon	thly Expense Alert	O voucher(s)
Due Amount	+	Amount Overdue	0.00USD

3. On the left side navigation bar, select **Bills > Bill Details**.

4. At the top of the Bill Details page, select the query period as monthly, choose **Bill by Instance**, then in the search bar select Product Name, filter and find TencentDB for MySQL, and click Confirm to review the bills generated by the product in the selected month from the list below.

#### Note:

To view the bill details of one instance, you can click **Bill Details** in the **Operation** column.

	Instance ID	Instance Name	Product Name	ax)	Voucher Deduction	Amount Before Tax	Tax Rate	Tax Amount	Total Cost (Includi	Operation
	cdb-	cd	TencentDB for MySQL	.37	0.00	45.37	0	0.00	45.37	Bill Details
ne	need to download the bill details, click									

If you need to download the bill details, click

from the right side to facilitate a local download.

Bill Details 2024-02	Ē						
Bill by Instance Bill	I Details						
<ul> <li>The bill for a month is ge Expense figures in Bill D</li> </ul>	enerated on the third day of the r etails are accurate up to 8 decim	ext month. The bill for the c al places. Expense figures i	urrent month is not ready n Bill by Instance are rou	yet and the costs below are for nded off to 2 decimal places. Act	reference only. ual deduction amount will be in 2	decimal places. For more deta	ls, see User Guide of Cu
TencentDB for MySQL	All Subproducts	▼ All Projects	▼ All	Regions 💌	All AZs	All Billing Modes	✓ All transa
	2						
All products cloud block storage	USD = Total Amou	nt After Discount (Exclu	uding Tax)	D - Voucher Deduction	USD + Tax Amount	USD	Instance ID/Instance
TencentDB for MySQL	nce Name F	roduct Name	Subproduct Name	Billing Mode	Instance Type	Transaction Type	Region