

TencentDB for PostgreSQL

Purchase Guide

Product Documentation



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Billing Overview

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Billing Mode

TencentDB for PostgreSQL is a pay-as-you-go service.

Billing Mode	Billing Plan	Use Case
Pay-as-you-go	Postpaid. You can request for resources on-demand and will be charged based on the actual usage upon settlement.	Suitable for businesses with fluctuating demands. Instances can be released immediately after use to reduce costs.

Billing Formula

Total fees = memory fees + disk fees + backup and log capacity fees (free of charge now) + traffic fees (free of charge now)

Billable Items

Billable Item	Notes
Memory	TencentDB for PostgreSQL supports tiered pricing. For detailed prices, please see Pricing . There are three tiers. A longer usage period means a lower unit price. Tier 1 (T1): 0360 hours
Disk capacity	For detailed prices of disks, please see Pricing .
Backup and log storage	Free of charge now
Traffic	The traffic sent from the TencentDB instance to the client over a public network. It's free of charge now.

Pricing

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Billing Mode

TencentDB for PostgreSQL offers the following billing mode:

Billing Mode	Payment Method	Use Case
Pay-as-you-go	Postpaid . You can request for resources on-demand and will be charged based on the actual usage upon settlement.	Suitable for businesses with fluctuating demands. Instances can be released immediately after use to reduce costs.

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

Usage Duration	Tiered Price
0 hours < duration ≤ 96 hours	Tier 1 rate applies to hours < duration ≤ 360 hours

Instance Price

Billing formula

Total fee = Memory fee + Disk fee

Pay-as-you-go price

Memory price

Tier	Guangzhou, Shanghai, Beijing, Nanjing, Tianjin, Shenzhen, Chengdu (USD/GB/hr)	Hong Kong (China) (USD/GB/hr)	Silicon Valley, Virginia, Frankfurt (USD/GB/hr)	Moscow, Seoul, Bangkok, Tokyo (USD/GB/hr)	Singapore (USD/GB/hr)
Tier 1	0.052	0.069	0.055	0.056	0.07

Tier	Guangzhou, Shanghai, Beijing, Nanjing, Tianjin, Shenzhen, Chengdu (USD/GB/hr)	Hong Kong (China) (USD/GB/hr)	Silicon Valley, Virginia, Frankfurt (USD/GB/hr)	Moscow, Seoul, Bangkok, Tokyo (USD/GB/hr)	Singapore (USD/GB/hr)
Tier 2	0.039	0.052	0.041	0.042	0.053
Tier 3	0.026	0.034	0.028	0.028	0.035

Note :

If a pay-as-you-go instance configuration is adjusted, it will be start charging from the tier-1 price again.

Disk price

Region	Price (USD/GB/hr)
Guangzhou, Shanghai, Beijing, Nanjing, Tianjin, Shenzhen, Chengdu	0.0005
Silicon Valley, Virginia	0.00019
Frankfurt	0.00028
Moscow, Tokyo	0.00031
Bangkok	0.00024
Seoul, Singapore, Hong Kong (China)	0.00024

Value-Added Services

- **Backup and log capacity:** you will receive 50% of the instance capacity for free to use as backup and log capacity. Any usage exceeding this complimentary capacity is currently free as well.
- **Public network traffic:** this is the traffic sent from the TencentDB instance to the client over a public network, which is currently free.

Billing Example

Pay-as-you-go billing example: suppose you purchase a pay-as-you-go TencentDB for PostgreSQL instance with 32 GB memory and 500 GB disk capacity in the Singapore region and you use this instance for 400 hours.

The fees are calculated as follows:

Tier 1 fee: $(32 \text{ GB} \times 0.07 \text{ USD/GB/hr} + 500 \text{ GB} \times 0.00024 \text{ USD/GB/hr}) \times 96 \text{ hours} = 226.56 \text{ USD}$

Tier 2 fee: $(32 \text{ GB} \times 0.053 \text{ USD/GB/hr} + 500 \text{ GB} \times 0.00024 \text{ USD/GB/hr}) \times 264 \text{ hours} = 479.556 \text{ USD}$

Tier 3 fee: $(32 \text{ GB} \times 0.035 \text{ USD/GB/hr} + 500 \text{ GB} \times 0.00024 \text{ USD/GB/hr}) \times 40 \text{ hours} = 49.6 \text{ USD}$

Your instance fees = Tier 1 fee + Tier 2 fee + Tier 3 fee = 755.716 USD

</duration≤96>

Instance Type and Specification

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A TencentDB instance is a standalone database environment running in Tencent Cloud. It includes multiple databases created by users and can be accessed using the same tools and applications as those for a standalone database instance.

Instance Types

TencentDB for PostgreSQL supports the following types of instances:

Instance Type	Definition	Architecture	Visible in the Instance List	Feature
Primary instance	An instance that can be read from and written to	High-availability edition	Yes	A primary instance can mount read-only instances for read/write separation
Read-only instance	An instance that can only be read from	Single-node read-only	Yes	A read-only instance cannot exist on its own. It must instead be associated with a primary instance, with its data only being synced from the primary instance. It must also reside in the same region as the primary instance. By default, up to seven read-only instances can be created for a primary instance. To create more than six read-only instances, submit a ticket .

Reference

- For more information on the creation of read-only instances, see [Overview](#).
- For more information on how to create and configure a read-only instance group (RO group), see [Managing RO Groups](#).

Note :

When the used capacity of the instance exceeds the purchased capacity, the database instance will be set to "Read-Only". You can set alarms for capacity usage.

Supported Instance Specifications

Edition	Version	Specification Type	CPU and MEM	Disk Capacity	Maximum Number of Connections
Dual-server high-availability edition (one-primary-one-standby) Read-only instance	10、 11、 12、 13、 14	General - local high-performance SSD	1-core 2 GiB	10 GB - 2000 GB	200
			2-core 4 GiB	10 GB - 2000 GB	400
			2-core 6 GiB	10 GB - 2000 GB	500
			4-core 8 GiB	10 GB - 2000 GB	800
			4-core 16 GiB	10 GB - 2500 GB	1500
			6-core 24 GiB	10 GB - 3000 GB	1800
			8-core 32 GiB	10 GB - 3500 GB	2000
			8-core 48 GiB	10 GB - 4000 GB	2500
			12-core 64 GiB	1000 GB - 4500 GB	3000
			16-core 96 GiB	1000 GB - 5000 GB	5000
			20-core 128 GiB	1000 GB - 5500 GB	10000
			28-core 240 GiB	1000 GB - 6000 GB	13000

			48-core 480 GiB	1000 GB - 6000 GB	22000
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Purchase Methods

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Prerequisites

You have [registered a Tencent Cloud account](#) and [completed identity verification](#).

Purchasing in Console

1. Log in to the [TencentDB for PostgreSQL purchase page](#), specify the database instance information as needed, confirm that everything is correct, and click **Buy Now**.

- **Billing Mode:** Pay-as-you-go.
- **Region:** The region where the instance is actually deployed. To minimize delay, we recommend the same region as the CVM instance to be connected to.
- **AZ:** Physical IDCs where electric power facilities and networks are independent from each other within the same region. To minimize delay, we recommend the same AZ as the CVM instance to be connected to.
- **Network:** The network where the instance is deployed. To minimize delay, we recommend the same network as the CVM instance to be connected to. Both multi-AZ deployment (the primary and standby nodes are in different AZs) and single-AZ deployment (the primary and standby nodes are in the same AZ) are supported. Specific primary and standby AZs are as displayed on the actual purchase page.

Note :

VPC: It is a logically isolated network space in Tencent Cloud. In a VPC, you can customize IP ranges, IP addresses, and routing policies.

- **Architecture:** TencentDB for PostgreSQL supports the dual-server high-availability (one-primary-one-standby) architecture by default.
- **Database Version:** The features available vary by PostgreSQL kernel version. For more information, see the official descriptions of PostgreSQL [10](#), [11](#), [12](#), and [13](#).
- **Instance Specification:** Instance performance and base prices depend on its specification.
- **Disk:** An SSD disk (local disk) is used by default.
- **Backup Space:** You will receive 50% of the instance capacity for free to use as backup and log capacity. Any usage exceeding this complimentary capacity is currently free as well.

- **Instance Name:** Name the instance now or later with up to 60 letters, digits, underscores, and hyphens.
 - **Character Set:** TencentDB for PostgreSQL supports UTF8 and LATIN1 character sets.
 - **Username:** The account name can contain 1–16 letters (case-insensitive), digits, or underscores. It cannot be `postgres` or start with a digit or `pg_`.
 - **Password:** The password can contain 8–32 characters. We recommend you use a password of at least 12 characters. It cannot start with a slash (/) and must contain all the following types of characters:
 - Lowercase letters (a–z)
 - Uppercase letters (A–Z)
 - Digits (0–9)
 - Special symbols `()~!@#$%^&*~+=_ | { } [] : ; ' & ! t ; > , . ? /`
 - **Project:** If instances need to be managed by different teams, assign the instances to the projects of different teams accordingly.
 - **Security Group:** It serves as a stateful virtual firewall with filtering feature for configuring network access control for one or more TencentDB instances. It is an important network security isolation tool provided by Tencent Cloud.
 - **Tag:** It facilitates resource categorization and management.
 - **Quantity:** The number of instances that can be purchased at a time. To avoid faulty operations, an upper limit of 10 has been set for this parameter. If you want to purchase more instances, make multiple purchases.
 - **Terms of Service:** Read and click it. For more information, see [Terms of Service](#).
2. After the purchase is completed, you will be redirected to the [instance list](#). After the status of the instance changes to **Running**, the instance can be connected to.

Purchasing via API

For more information on how to purchase a TencentDB instance via an API, see [CreateInstances](#). After the instance is created, it can be connected to.

Note :

If you use the [CreateDBInstances](#) API to create an instance, you need to [initialize the instance](#) first before connecting to it.

Subsequent Operations

You can use a standard SQL client to connect to the TencentDB for PostgreSQL instance at its private or public network address. For more information, see [Connecting to TencentDB for PostgreSQL Instance](#).

Instance Upgrade

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Upgrading Instances

Instance upgrade refers to upgrade the specification of an existing TencentDB instance. During upgrade, the database service will be interrupted for just a few seconds, so we recommend you upgrade your instance during off-peak hours. Once the upgrade process begins, it cannot be stopped. Instance downgrade is not supported on the console.

1. Log in to the [TencentDB for PostgreSQL console](#), locate the desired instance in the instance list, and click **Adjust Configurations** in the **Operation** column.
2. In the pop-up dialog box, select the desired specification and make the payment. Once the payment is completed, the instance is automatically upgraded to the target specification.

Upgrade fees = (price of target specification - price of original specification) x remaining validity period

Refund

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- Pay-as-you-go instances can be returned, but there will be no refunds.

Return Process

Go to the [ticket](#) page, select **Problem Category > TencentDB for PostgreSQL > Instance Return**, enter the instance name, IP, port, reason for return, problem description, mobile number, and time available for SMS receipt, confirm that everything is correct, and click **Submit Ticket**.

Payment Overdue

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Balance Reminder

We will estimate the number of days it takes your account balance to become negative based on the usage in the past 24 hours and current balance. If it is less than five days, we will send a reminder to your Tencent Cloud account creator and all the collaborators via email and SMS.

Overdue Payment Reminder

For pay-as-you-go resources, fees are deducted on the hour. When your account balance is in negative, we will notify the Tencent Cloud account creator and all the collaborators via email and SMS.

Overdue Payment Processing

Starting from the moment your account becomes negative:

- You can continue to use your database for 2 hours from the moment your account becomes negative. We will also continue to bill you for this period.
- After your account has been overdue for 2 hours, **your database instance will automatically shut down. We will also stop billing you for service.**

After automatic shutdown:

- Within 24 hours after automatic shutdown, if your account is not topped up to a positive balance, you will not be able to start your database; If your balance is positive, the billing continues, and you can start your database.
- If your account remains negative for 24 hours after shutdown, the database will be repossessed, and **all data will be deleted and cannot be recovered.**

We will notify the Tencent Cloud account creator and all the collaborators via email and SMS when the database is repossessed.

When you do not use pay-as-you-go resources any longer, **terminate them as soon as possible** to avoid further fee deduction.

After the database is terminated or repossessed, the data will be deleted and cannot be recovered.

Since your actual resource consumption changes from time to time, some deviation may exist for the stated balance.