

TencentDB for MongoDB

Getting Started

Product Documentation



Copyright Notice

©2013-2019 Tencent Cloud. All rights reserved.

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

Trademark Notice



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

Service Statement

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

Contents

Getting Started

- Instance Purchase and Initialization

- Create Instance

- Initialize Instance

- Access Connection

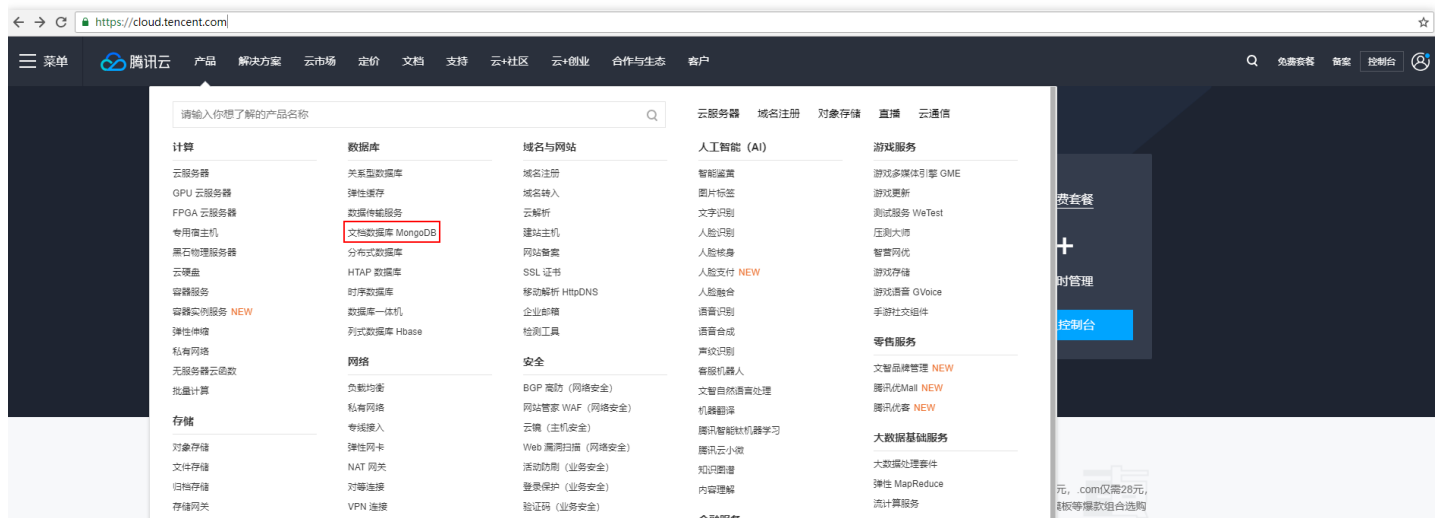
Getting Started

Instance Purchase and Initialization

Last updated : 2018-09-14 15:40:00

1. Purchase Instances

Log in to the [Tencent Cloud official website](https://cloud.tencent.com), click the menu shown in the following figure to go to the [MongoDB Overview](#) page.



Click **Buy Now** to go to the [product purchase page](#).



The product purchase page mainly covers the following settings, which are described in detail below.

1.1 Billing method and region

(1) Billing method

The postpaid method is supported, which is applicable to scenarios where the business volume fluctuates dramatically at a certain time. If large fluctuations exist in business development and cannot be predicted accurately, or resources may be used in special or emergency case, it is recommended to choose the postpaid mode. In the postpaid mode, when you create a cloud MongoDB storage, the system freezes the hardware cost of an hour in your cloud account and makes a settlement every hour on the hour, with a time granularity down to second. In this mode, you are charged for the actual usage of the Cloud MongoDB Service, without the need to make any advance payments.

(2) Regions

Tencent Cloud's hosting data centers are distributed globally, covering Southeast Asia, Asia Pacific, US West, US East, North America, Europe and other overseas regions. More regions will be available to deploy more nodes.

Notes:

- Cloud products in the same region communicate with each other over the private network, but the private networks for the resources under different accounts are completely isolated from each other.
- Cloud products in different regions cannot communicate with each other over the private network.
- Tencent Cloud resources in different regions cannot access each other over the private network.

- Select a region closest to your customers when purchasing cloud services to minimize the access latency.

(3) Availability zone

Availability zones are Tencent Cloud's physical IDCs with power facilities and networks independent of each other within the same region. They are designed to ensure that failures within an availability zone can be isolated (except for large-scale disaster or major power failure) without spreading to other zones, so as to ensure your business stability. Availability zones in the same region communicate with each other over the private network, and network latency is shorter for products within the same availability zone.

1.2 Basic configuration

The basic configuration mainly involves server types, database versions, storage engines, instance types, number of multipart nodes, computing resource specifications, storage capacity, etc. See below for details:

(1) Configuration types

Two types of models are available: High IO and High IO (10 GB).

(2) Versions

The database version 3.2 is supported.

(3) Engines

TencentDB for MongoDB supports two database engines: WiredTiger and Rocks.

(4) Instance types and number of nodes

Instances types include replica set instances and sharding instances. If replica set instances are used, the "1 Master, 2 Slaves" architecture is configured by default. When a sharding cluster is used, you can select the number of shards and the number of nodes in each shard as needed. The "1 Master, 2 Slaves" architecture is used in each shard by default. To improve data availability, you can increase the number of nodes in each shard. To expand the storage capacity of the cluster, you can increase the number of shards.

(5) Specifications

Computation specifications supported for each node are shown in the following table:

CPU	MEM
1 core	2 GB
2 cores	4 GB

CPU	MEM
4 cores	8 GB
6 cores	16 GB
12 cores	32 GB
24 cores	64 GB
24 cores	128 GB
32 cores	240 GB

(6) Capacity

You can choose storage specifications according to computation specifications. The storage space of Oplog is 10% of the selected storage capacity by default, which can be adjusted on the Tencent Cloud console.

1.3 Networks and projects

(1) Network types

VPCs and basic networks are supported. If you select a basic network, only devices in the basic network can access the created database instances. If you select a VPC, only devices in the current subnet can access the created database instances.

(2) Projects

You can select appropriate projects based on your business needs.

1.4 Quantity and usage period

(1) Quantity

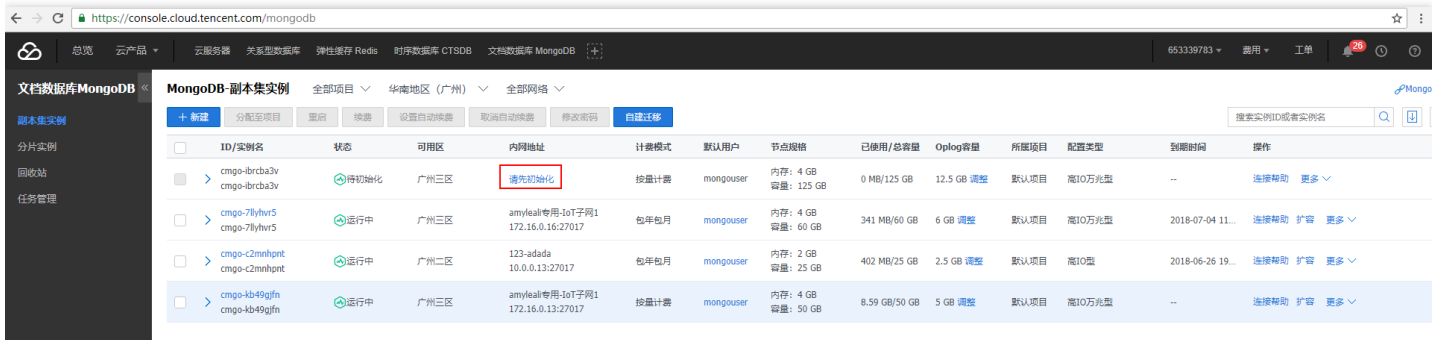
You can purchase a maximum of 10 prepaid instances, and a maximum of 30 postpaid instances in all regions.

(2) Usage period

In the prepaid billing mode, you can select a usage period of 3 years at most. You can also enjoy 12% off for a usage period of more than 6 months, 60% off for a usage period of 2 years and 70% off for a usage period of 3 years.

2. Initialize Instance

After an instance is purchased and delivered successfully, you can find it in the [Instance List](#) on the console, as shown below.



Click **Initialize First** to set a password for mongouser and rwuser. The popup box is shown as follows:

The dialog box titled "初始化密码" (Initialize Password) contains the following information and input fields:

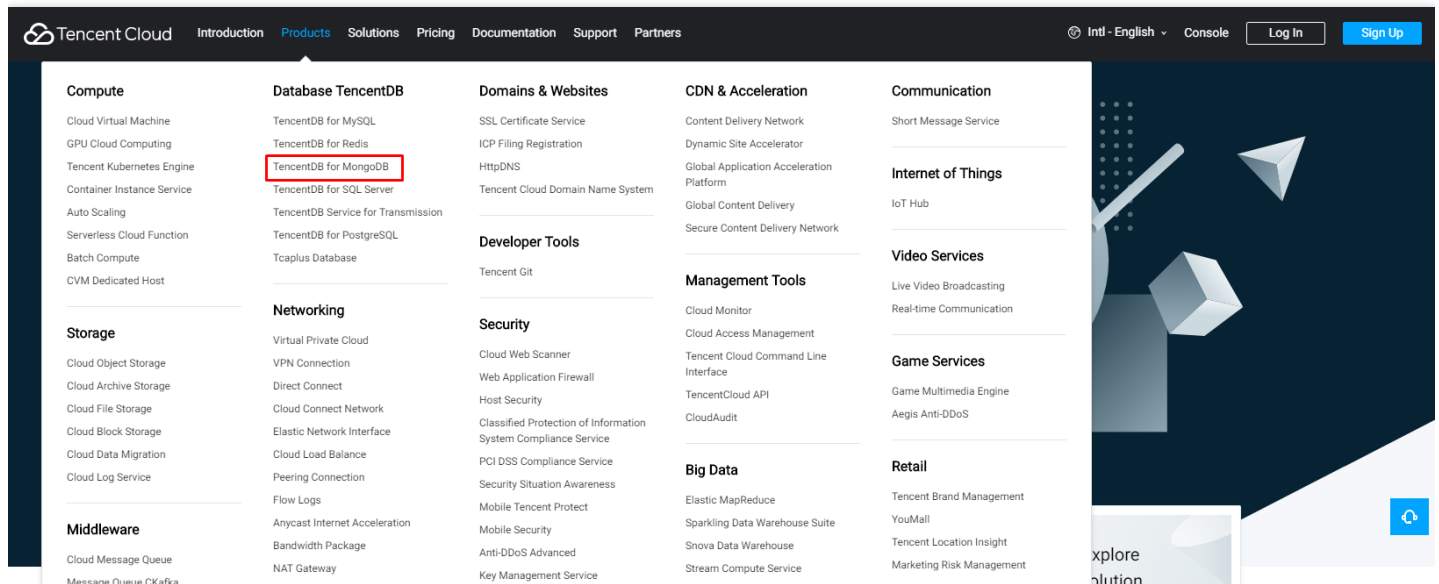
- 实例名称: cmgo-ibrcba3v
- 初始化用户: mongouser 和 rwuser
两个用户的密码均会被设置成您输入的内容 [了解更多](#)
- 密码 *
请输入密码
1.至少包含字母、数字和字符 (!@#%^^*) 中的两种
2.长度为8-16个字符
- 确认密码 *
请再次输入密码

At the bottom, there are two buttons: "确定" (Confirm) and "取消" (Cancel).

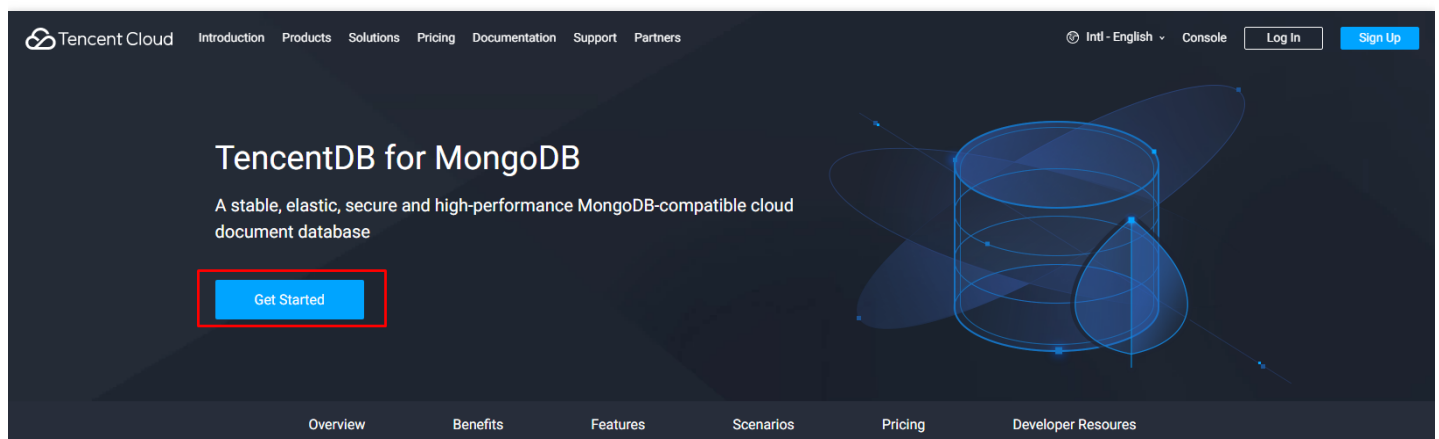
Create Instance

Last updated : 2019-08-12 11:19:09

Log in to the [Tencent Cloud official website](#), click the menu as shown in the following figure and enter the [MongoDB Overview](#) page.



Click **Buy Now** and enter the [product purchase page](#).



Overview

TencentDB for MongoDB is a high-performance NoSQL database built by Tencent Cloud based on MongoDB, a globally popular database program. Fully compatible with the MongoDB protocol, it provides stable and rich features for monitoring management, elastic scaling and

You can modify settings on the product purchase page as described below.

Billing Options and Region

Billing Options

TencentDB for MongoDB is pay-as-you-go, making it very suitable for businesses with needs that can fluctuate instantaneously or unpredictable sales volume. This billing method is also recommended for users with temporary and sudden resource requirements. Pay-as-you-go is a postpay billing method. When you create a document database, we will freeze the hardware cost of one hour in your Tencent Cloud account and charge the usage fee on the dot of each hour (Beijing time). The billing time is accurate down to the second. With the pay-as-you-go billing method, you only need to pay for what you use, and no upfront payment is required.

Region

Tencent Cloud managed data centers are located globally, including 4 regions in China (South China, East China, North China, and Southwest China), and more than 6 regions across the globe (Southeast Asia, Asia Pacific, Western U.S., Eastern U.S., North America, Europe, etc.). We are deploying more nodes to achieve higher global coverage. Currently, the regions that support instance creation include Guangzhou, Shanghai, Beijing, Chengdu, Chongqing, Hong Kong, Singapore, Seoul, Mumbai, Bangkok, Silicon Valley, Toronto, Virginia, Frankfurt, and Moscow. Available finance zones include Shenzhen Finance and Shanghai Finance.

Notes:

- While cloud products deployed within the same region can communicate with each other over the private network, the private networks for the resources in different accounts are completely isolated from each other.
 - Cloud products in different regions cannot communicate with each other over a private network.
 - Because each region is independent, cross-region access to Tencent Cloud resources is not supported through private networks.
 - When you purchase Tencent Cloud resources, we recommend you select a region closest to your customers to minimize connection latency.

Availability Zones

Availability Zones refer to Tencent Cloud physical IDCs with independent power facilities and networks within a same region. Availability Zones are designed to prevent single point failures (except for large-scale natural disasters or major power failures) from affecting other Availability Zones in the same region to ensure your business availability. Availability Zones in the same Region are connected via low-latency private networks.

Basic Configurations

The basic configuration includes the configuration of server type, database version, storage engine, instance type, number of shard nodes, computing resource specification, and storage capacity. See

below for details.

Configuration Types

Two types of models are available: High IO and High IO (10 GB).

Version

The version 3.2 and 3.6 are available.

Engine

TencentDB for MongoDB supports two storage engines: WiredTiger and Rocks.

Instance type and number of nodes

Instance types include replica set and sharded instances. For replica set instances, the "1 Master and 2 Slaves" architecture is configured by default. For sharded clusters, you can select the number of shards and the number of nodes in each shard as needed. Each shard has "1 Master and 2 Slaves" by default. To improve data availability, you can increase the number of nodes in each shard. To increase the storage capacity of the cluster, you can increase the number of shards.

Specification

The table below shows the available computation specifications for each node:

CPU	MEM
1 core	2 GB
2 cores	4 GB
4 cores	8GB
6 cores	16GB
12 cores	32GB
24 cores	64GB
24 cores	128GB
32 cores	240GB

Capacity

You can select storage specifications according to computation specifications. The storage space of Oplog is 10% of the configured storage capacity by default, you can adjust the percentage in Tencent Cloud

Console.

Network and Project

Network type

VPC networks and basic networks are supported. If you select a basic network, only devices in the basic network can access the database instances you created. If you select a VPC network, only devices in the current subnet can access the database instances you created.

Project

You can select a project based on your business needs.

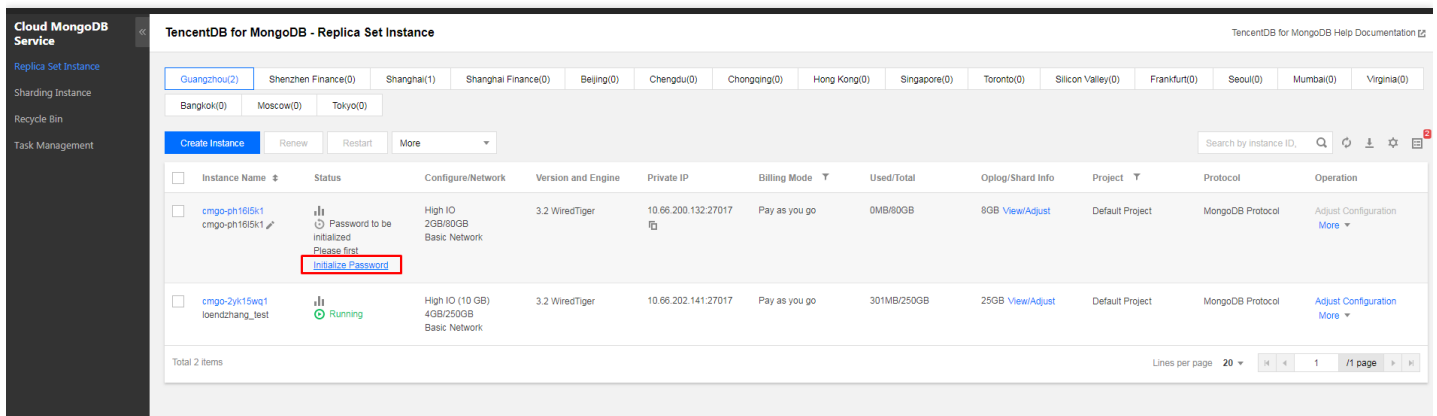
Purchase Quantity

Each user can purchase up to 30 pay-as-you-go instances in all regions.

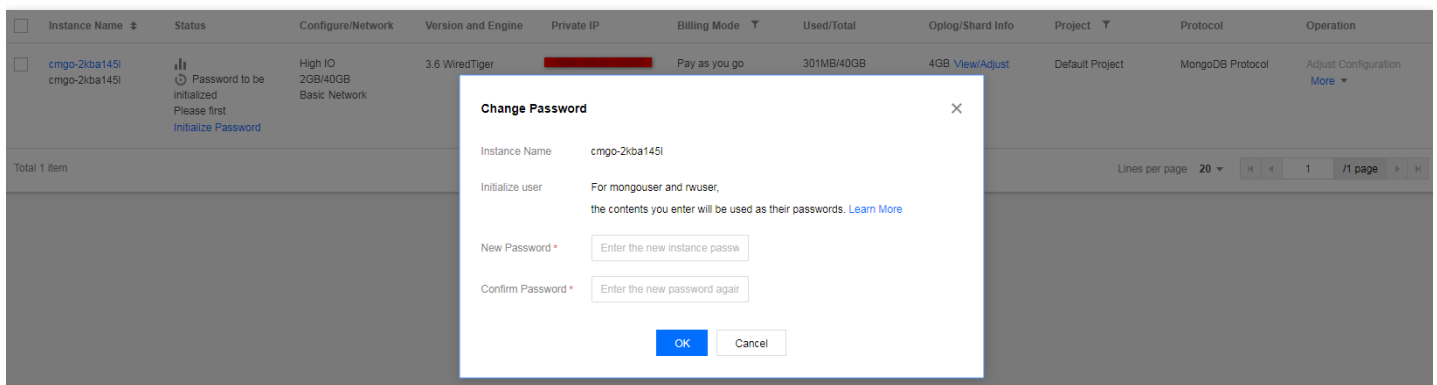
Initialize Instance

Last updated : 2019-08-12 11:19:41

After you successfully purchase a TencentDB for MongoDB instance, you can find it in the [Instance List](#) on the console, as shown below.



Click **Initialize First** to set a password for mongouser and rwuser. You will see the pop-up box as shown below.



Access Connection

Last updated : 2019-08-12 11:19:52

TencentDB for MongoDB can be connected through a variety of languages such as Shell, PHP, Node.js, Java and Python.

For more information, see [Connection Example](#).