

# Tencent Cloud Blockchain as a Service Purchase Guide Product Documentation





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# Purchase Guide Purchase Page Description

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#### Overview

This document guides users to create a blockchain network under the Tencent Cloud enhanced Hyperledger Fabric engine.

### **Prerequisites**

Logged in to the TBaaS Console.

# **Operation Steps**

- 1. Select Fabric > blockchain network in the left sidebar, and enter the blockchain network page.
- 2. click **Create**, enter the purchase page of TBaaS-Fabric Blockchain Service, and fill in basic information, organization, and node configurations following the on-page prompts.
  - Consortium: Select the consortium to which you belong. You need to establish a consortium before
    purchasing a blockchain network. The consortium cannot be changed after the network is
    established.
  - O Region: The international website currently supports the Hong Kong (China) region.
  - Organization name: Must start with a letter and be composed of digits and letters within 12 characters. The recommended format is xxxOrg.
  - O CA authority: Supports Fabric CA by default.
  - Certificate encryption method: Support ECC certificate by default.
  - O State database type: Supports LevelDB state database and CouchDB state database. The default is LevelDB state database.
  - Instance Auto-Renewal: Once enabled, if the account balance is sufficient, the network will be autorenewed monthly upon expiration.
    - After completing the initialization settings of the blockchain, if you need to set "Automatic Renewal", you can enter TBaaS Console, select Fabric > Blockchain Network in the left sidebar, and after entering the Blockchain Network page, select More > Set Auto-Renewal for the network that needs to be set, and perform the settings again.
- 3. Click Buy Now to deploy the Fabric network successfully.



# Overdue Payment Instructions

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#### **Alerts**

Alert Type	Description
Expiration Warning	Tencent Cloud resources will send expiration warning messages to users within 7 days before resource expires. The warning messages will be sent via email and SMS to the creator of the Tencent Cloud account, global resource collaborator, and financial collaborator.
Overdue Payment Warning	An overdue payment alert will be sent on the cloud resource expiration day and after the expiration. The Tencent Cloud account creator and all collaborators will receive such notifications via email and SMS.

## **Recycling Mechanism**

- The system starts sending renewal reminders seven days before the expiration of cloud service resources.
- If your account balance is sufficient and automatic renewal is enabled, the resources will be automatically renewed on the expiration date.
- If your TBaaS blockchain network service is not renewed before expiration (including the expiration day), the system will suspend its service at the expiration time point (disconnect from the network and shut down the device, retaining data), and the TBaaS blockchain network service will enter the recycling bin.
- From the day after expiration to 7 days after expiration, you can still renew and restore the device in the recycle bin.



#### Motes:

The renewal cycle start time of the renewed instance is the expiration time of the previous cycle.

• If your TBaaS blockchain network service is not renewed 7 days after expiration (including the 7th day), the system will start releasing resources at 0:00 on the 8th day after expiration. Data in the expired server will be erased and unrecoverable.



# Pricing and Specification Description

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## **Version Description**

Based on the Hyperledger Fabric Tencent Cloud Enhanced Edition engine, Tencent Cloud currently provides a standard version for users to purchase. More versions will be opened for users to choose flexibly in the future. The relevant function configuration information of the standard version is as follows:

Feature Configuration		Standard Edition
Product Feature Components	Consensus Algorithm	TBFT,RAFT
	Certificate Service	Self-created CA in Fabric
	Resource Overview	Supported
	Alliance Management	Supported
	Event Center	Supported
	Connection management	Supported
	Dynamically join channel	Supported
	Contract Management	Supported
	Endorsement policy	Supported
	Organization management	Supported
	Adding a Node	Supported
	Node Scale-Out	Supported
	Node Configuration Upgrade	Supported
	TencentCloud API access	Supported



	Network renewal	Supported
	Recycle Bin	Supported
	Node Quantity Limit	1 network supports up to 100 peers and 15 orderers.
Region Network region		Hong Kong (China)
Node configuration	Initial configuration of node	4-core CPU, 8 GB Memory, 500 GB Disk (support adjusting node configuration when purchasing)
	Handle the environment	Blockchain production environment, staging environment, POC, regulatory node
Scope of Application	Applicable scenario	Meet general business scenarios, including anti- counterfeiting traceability, credential storage, trusted data exchange, blockchain applications in supply chain finance, etc.
	Typical customer	Applicable to SMEs or developers to build online lightweight blockchain networks.

# **Pricing Details**

• Billing mode: Monthly Subscription.

• Payment method: Prepaid.

• Billing unit: USD/month, minimum usage is one month.

 Adjust instance configuration: You can upgrade node configurations and expand storage space on the basis of the initial configuration.

• Cost calculation under annual and monthly package mode:

Instance Families and Models	Blockchain network construction				
	Region	Business node	Node configuration	Monthly Subscription	
Standard Edition	Hong Kong (China)	1 Peer or Orderer	4-core CPU, 8 GB Memory, 200 GB Disk	350 USD/month	
			8-core CPU, 16 GB Memory, 500 GB Disk	570 USD/month	
			16-core CPU, 32 GB Memory, 1 TB Disk	1,040 USD/month	





#### ⚠ Notes:

A minimum of 1 peer and 1 orderer are required to create a Hyperledger Fabric network. For the formal business network, it is recommended to configure at least 4 orderers to ensure high availability. The number of orderer in the entire network must not exceed 15, and the number of peer must not exceed 100.

## Example

#### Based on Hyperledger Fabric standard version

For example, if you purchase a standard version of the blockchain network instance, which includes 1 peer, 1 orderer, and the node configuration selects "8-core CPU, 16GB memory, 500GB disk", and the purchase duration is 2 months. The fees you need to pay are calculated as follows:

Total cost: 570 USD/unit/month  $\times$  2 units  $\times$  2 months = 2,280 USD