Blockchain as a Service

Quick Start

MORE THAN JUST CLOUD | C-D Alibaba Cloud

Quick Start

Hyperledger Fabric

Quick Start

Alibaba Cloud BaaS provides Starter Edition to deploy a test blockchain network, which simulates a minimum multi-party transaction scenario. This netowrk is owned by a single customer and suitable for getting started and testing smart contracts.

Note: The Starter Edition has one consortium and two organizations. It is for test purpose and can not add more organizations. When you want to create production environment, you can choose the Basic Edition or Enterprise Edition. In these editions, you can create, extend and customize your blockchain network, as well as inviting new members. For more information, see Operation process.

Deploy blockchains quickly

Log on to Alibaba Cloud.

- If you are using an Alibaba Cloud account, click here to log on .
- If you are using a RAM user, click here to log on.

Log on to the Alibaba Cloud BaaS console.

Click Create Consortium and enter in purchase page.

nizations												Label
e Organization	Refresh											
Domain	Region	Specifica	ation Labe	I	Peers	Users	Conso m	rtiu Status	Created At	ExpiredTi me	Descriptio n	Action
				No da	ata is ava	ulable						
ortia												Label
e Consortium	Refresh											
Domain	Creator	Region	Specification	Label		Memb ers	Chan	Creation	Status	Created At	ExpiredTi me	AC
	kortia ne Consortium	e Organization Refresh Domain Region cortia	e Organization Refresh Domain Region Specific sortia	e Organization Refresh Domain Region Specification Labe cortia Refresh Refresh	e Organization Refresh Domain Region Specification Label No da sortia Refresh Refresh	e Organization Refresh Domain Region Specification Label Peers No data is ava sortia	Refresh Region Specification Label Peers Users No data is available No data is available cortia Refresh Item to the tot tot tot tot tot tot tot tot tot to	e Organization Refresh Domain Region Specification Label Peers Users Conso No data is available Refresh Refresh Domain Creator Region Specification Label Memb Chan	e Organization Refresh Domain Region Specification Label Peers Users Consortiu Status No data is available	e Organization Refresh Domain Region Specification Label Peers Users Consortiu Status Created No data is available Refresh Pomain Creator Region Specification Label Memb Chan Channel Status	e Organization Refresh Domain Region Specification Label Peers Users Consortiu Status Created Refresh No data is available No data is available Status Created Refresh ExpiredTi Refresh Domain Creator Region Specification Label Memb Chamel Creation Status Created At	e Organization Refresh Region Specification Label Peers Users Consortiu Status Created Ref ExpiredTi Descriptio n° No data is available

Select your region, choose Consortium Instance Type and Starter Edition, specify Consortium Name, Consortium DomainName and Duration, then go through purchase

	Region	China (Hong Kong)	Singapore	Australia (Sydney)	Japan (Tokyo)	India (Mumbai)	Germany (Frankfurt)	
		US (Virginia)						
		Choose a region that is clo	se to your applications to reduce	e network latency. Use caution: Th	e selected region cannot be cha	anged after purchase.		
		-						
	Blockchain Engine	Hyperledger Fabric						
	Instance Type	Consortium	Organization					
		A workable blockchain net	work should includes one conso	rtium instance and at least one or	ganization instance that joins th	he consortium.		
	Edition	Starter	Basic	Enterprise				
		All editions of BaaS instan	ces are exclusive resources, whi	ch provides a more stable and reli	able performance. For more inf	ormation, see Specifications an	nd pricing.	
	Consortium Name	testDemo						
		Recommend that enter a b	usiness-related name that is eas	sy to identify.				-
	Consortium	testDemo						
	DomainName	Enter the prefix of the consortium domain name. The consortium domain name is the identity of the consortium in the blockchain network. It is globally unique and cannot be modified after purchase. For example, if you enter abc, the consortium domain name is abc alibabacioudbaas.com.						
	Storage Cost	You do not need to select a	a storage capacity when purchas	se. It charges hourly on a pay-as-yo	ou-go basis. Learn More>>			
	-		. Laura Laura		1			
	Duration	1 Month 2 Month	ns 3 Months 4 Month	s 5 Months 6 Months	More 👻			
process.								

Move back to BaaS console, on the **Overview** page, you can see the consortium and 2 organizations that you created. It may take several minutes for the system to configure the resources.

My Organiz	ations										
Create C	Organization Refres	h									
Name	Domain	Region	Specification	Label		Peers	Users	Consortiun	n Status	Created At	ExpiredTime
Org0	orç^ - vouaba as.	Singapore	Starter Edition	٠		2	0	1	Running	Aug 7, 2020, 16:14:30	Sep 8, 2020, 00:00:00
Org1	orç aa s.c	Singapore	Starter Edition	•		2	0	1	 Running 	Aug 7, 2020, 16:14:30	Sep 8, 2020, 00:00:00
My Consort	tia										
Create C	Consortium Refresh	1									
Name	Domain	Creator	Region S	Specification	Label		Members	Channels Cl	hannel reation Policy	Status	Created At
testDemo	te iv.an. laudh ar n	uid- 54 '2 56	Singapore S	Starter Edition	٠	:	2	1 Ar	עו	Running	Aug 7, 2020, 16:14:30

A default channel is created and the 2 organizations have joined this channel. You just need to prepare your chaincode and deploy it to this channel.

1	Member Organizations	Channels	Chaincodes	Orderer Nodes	5		
	Add Channel Refre	sh					
	Name	Creator	Organizations	Chaincodes	Status	Created At	Last Updated At
	first-channel	54 397 30	2/2	0	Running	Aug 7, 2020, 16:30:45	Aug 7, 2020, 16:30:45

Next

Deploy chaincodes

Ant Blockchain

Quick Experience for Free

We provide a contract test blockchain for free to help you quickly experience our blockchain service. To apply for your own blockservice, please follow **Create a consortium**.

Notice: The test contract blockchain is for test only. Do not upload business code or business data.

Prerequisites

You have already activated Alibaba Cloud BaaS and logged on to Alibaba Cloud.

- If you are using an Alibaba Cloud account, click here to log on .
- If you are using a RAM user, click here to log on.

Apply for the blockchain

Log on to the Alibaba Cloud BaaS console. Click **Overview** under **Ant Blockchain** in the left navigation pane.

Click Try for Free, then fill the pop-up list to apply for the certificates.

bioekenum ber vices	Overview		
Hyperledger Fabric			
Ant Blockchain	You can try th	e following features by using the test contract blockchain on the right side:	
Overview	Smart Cont	ract Provides programming languages that are Turing complete. Solidity is supported and	Contract Test Chain
Contract Blockchain		optimized.	(The test contract blockchain is for test only. Do not upload business code or business data.)
Task Progress	 Account Sy 	stem Provides account system management and supports account operations, including creating an account, freezing an account, unfreezing an account, and resetting the account key.	Try for Free
Logs		account, meaning an account, annearing an account, and reacting the account key.	ity to the
Enterprise Ethereum	Cloud IDE	Provides an online integration environment for the development, deployment, and testing of smart contracts.	
Application Development Service	- • Browser	You can use the blockchain browser to query the number of transactions, node information,	
	Browser	Too can use the blockchain drower to query the number of transactions, node mornation, latest block information, transaction information contained in a block, block information, and the transaction details.	

We provide **Automatic/Manual** ways to generate the certificate. It is recommended to use a safe and convenient automatic generation method.

Blockchain Services	Overview	, and the second se	Apply for certificate	×	
 Hyperledger Fabric Ant Blockchain 	You can try the fol	owing features by using the test contract blockchain on the right side:	Choose one way to create Automatically Generated Manually Generated		
Overview Contract Blockchain	Smart Contract	Provides programming languages that are Turing complete. Solidity is supported and optimized.	 Automatically generate the key and the certificate. Generation and transmission processes are safe and reliable. The key is unique, and the platform will not save it, it cannot be retrieved after they are lost. 		
Task Progress	Account System	Provides account system management and supports account operations, including creating an account, freezing an account, unfreezing an account, and resetting the account key.	3. Automatically adapt to blockchain encryption algorithms. Blockchain		
Enterprise Ethereum	Cloud IDE	Provides an online integration environment for the development, deployment, and testing of smart contracts.	Contract Test Chain		
Application Development Service	Browser	You can use the blockchain browser to query the number of transactions, node information, latest block information, transaction information contained in a block, block information, and	SSL Key Password		
		a transaction details.	• Country Name (C)		
			Provincial Name (ST)		
			• City Name (L)		
			• Institution Name (O)		
			Apply		

If you choose Automatically Generated, the following steps need to be completed.

• Fill in the application information and click **Apply**.

Download private key and certificate.

Notice: There is only one chance to download the private key.

Blockchain Services	Overview		Download certificate and private key	×
 Hyperledger Fabric 			Notice: There is only one chance to download the private key.	
▼ Ant Blockchain	You can try the fol	lowing features by using the test contract blockchain on the right side:	This page will not be displayed later. If it is lost carelessly, it can not be retrieved.	
Overview	Smart Contract	Provides programming languages that are Turing complete. Solidity is supported and	Please click the link below to download the private key:	
Contract Blockchain		optimized.	Download Private Key	
Task Progress	Account System	Provides account system management and supports account operations, including creating an account, freezing an account, unfreezing an account, and resetting the account key.		
Logs			Please click the link below to download the certificate and developer components:	
Enterprise Ethereum	Cloud IDE	Provides an online integration environment for the development, deployment, and testing of smart contracts.	Download Slaned Certificate Download Root Certificate	
Application Development Service			(trustCa) Download Root Certificate (ca.crt) Download SDK	
	Browser	You can use the blockchain browser to query the number of transactions, node information, latest block information, transaction information contained in a block, block information, and the transaction details.		

Click **Create Account**, choose **Automatically**, and then fill in the application information, click **Apply**.

 Hyperledger Fabric 					
▼ Ant Blockchain		You can try the foll	owing features by using the test contract blockchain on the right side:	Contract Blockchain	
Overview Contract Blockchain		Smart Contract	Provides programming languages that are Turing complete. Solidity is supported and optimized.	Contract Biodechaim Contract Biodechaim	ned Certificate
Task Progress		Account System	Provides account system management and supports account operations, including creating an account, freezing an account, unfreezing an account, and resetting the account key.	4 Download Roc	ot Certificate (trustCa)
Logs Enterprise Ethereum 		Cloud IDE	Provides an online integration environment for the development, deployment, and testing of smart contracts.	View Deta + <u>Create Accour</u> C ⁴ Reset Certifice	
Application Development Service	Ξ	Browser	You can use the blockchain browser to query the number of transactions, node information, latest block information, transaction information contained in a block, block information, and the transaction details.		
Blockchain Services	10	Overview		Create Account	>
✓ Hyperledger Fabric Overview		You can try the foll	owing features by using the test contract blockchain on the right side:	Choose One Way to Create Manually Automatically	
Tasks Logs			Provides programming languages that are Turing complete. Solidity is supported and optimized.	 The generation and transmission of public and reliable. Public and private key pairs are unique, save them. They cannot be retrieved after 	and the platform will not
Ant Blockchain Overview			Provides account system management and supports account operations, including creating an account, freezing an account, unfreezing an account, and resetting the account key.	3. Automatically adapt to blockchain encry	
Contract Blockchains			Provides an online integration environment for the development, deployment, and testing of smart contracts.	Account Name	
Logs Enterprise Ethereum Application Development Service	Ш		You can use the blockshin browser to query the number of transactions, node information, latest block information, transaction information contained in a block, block information, and the transaction details.	Account Password Account Recovery Password	
					Αρρίγ

Download public-private key pairs.

Notice: There is only one chance to download the private key.



If you choose Manually Generated, the following steps need to be completed.

• Upload the locally generated certificate request file client.csr and click **Apply**. For the specific steps of locally generating the private key client.key and the certificateclient.csr, see Locally generate certificate and publicprivate key pair

Blockchain Services	Overview		Apply for Certificate	×	
 Hyperledger Fabric 			Choose One Way to Create Automatically Generated Manually Generated		
▼ Ant Blockchain	You can try the fe	illowing features by using the test contract blockchain on the right side:			
Overview	Smart Contrac	Provides programming languages that are Turing complete. Solidity is supported and	Generate a certificate request file and upload it using OpenSSL		
Contract Blockchains		optimized.	Blockchain		
Logs	Account System	${f n}$ Provides account system management and supports account operations, including creating an	Contract Test Chain		
Enterprise Ethereum		account, freezing an account, unfreezing an account, and resetting the account key.	Certificate Request		
Application Development Service	Cloud IDE	Provides an online integration environment for the development, deployment, and testing of smart contracts.	① Upload		
	E Browser	You can use the blockchain browser to query the number of transactions, node information, latest block information, transaction information contained in a block, block information, and the transaction details.			

• Click **Create Account**, choose **Manually**, and then fill the Account Name, Account Public Key, and Account Recovery Public Key. For the specific steps of locally genrating the key pairs, see **Locally generate certificate** and public-private key pair.

Hyperledger Fabric					
▼ Ant Blockchain		You can try the fol	lowing features by using the test contract blockchain on the right side:	Contra	ct Blockchain
Overview		Smart Contract	Provides programming languages that are Turing complete. Solidity is supported and	Contr	
Contract Blockchain			optimized.	Nodes	Download SDK
Task Progress		Account System	Provides account system management and supports account operations, including creating an account, freezing an account, unfreezing an account, and resetting the account key.	4	Download Root Certificate (trustCa)
Logs			account, matching an account, unmatching an account, and resoluting the account key.	View Det	
Enterprise Ethereum		Cloud IDE	Provides an online integration environment for the development, deployment, and testing of smart contracts.		C ^I Reset Certificate
Application Development Service		Browser	You can use the blockchain browser to query the number of transactions, node information,		
	H		latest block information, transaction information contained in a block, block information, and the transaction details.		

Blockchain Services	Overview		Create Account
lyperledger Fabric			Choose One Way to Create
Overview	You can try the foll	owing features by using the test contract blockchain on the right side:	Manually Automatically
Tasks		Provides programming languages that are Turing complete. Solidity is supported and	 The user manually creates a public-private key pair locally. Using Client Tool, to generate and manage public and private Key
logs		optimized.	Account Name
t Blockchain		Provides account system management and supports account operations, including creating an account, freezing an account, unfreezing an account, and resetting the account key.	Account Name
Overview			Account Public Key
Contract Blockchains	Cloud IDE	Provides an online integration environment for the development, deployment, and testing of smart contracts.	
logs	- • Browser	You can use the blockchain browser to query the number of transactions, node information,	
terprise Ethereum		latest block information, transaction information contained in a block, block information, and the transaction details.	Account Recovery Public Key
blication Development Service			

Click the more button the top right of the test blockchain to download certificates, development components or reset certificates. You can refer to **Development Guides** for more information about application development.

	1 010111011			
▼ Hyperledger Fabric				
Overview	You can try the fol	lowing features by using the test contract blockchain on the right side:		
Tasks	Smart Contract	Provides programming languages that are Turing complete. Solidity is supported and		
Logs		optimized.	Contra	ect Blockchains
▼ Ant Blockchain	 Account System 	Provides account system management and supports account operations, including creating an		Bownload Signed Certificate
Overview		account, freezing an account, unfreezing an account, and resetting the account key.	Nodes	Download SDK
Oterview	Cloud IDE	Provides an online integration environment for the development, deployment, and testing of	4	Download Root Certificate (trustCa)
Contract Blockchains	Cloud IDE	erovides an online integration environment for the development, deployment, and testing of smart contracts.		Download Root Certificate (ca.crt)
Logs			View De	+ Create Account
Enterprise Ethereum	Browser	You can use the blockchain browser to query the number of transactions, node information, latest block information, transaction information contained in a block, block information, and the transaction details.		C ^I Reset Certificate
Application Development Service				

Locally generate certificate and public-private key pair

Use OpenSSL

Note: You do not need to manually install OpenSSL on a macOS system.

Install OpenSSL

Install OpenSSL on the Windows operating system as follows:

Go to OpenSSL download page (English), find version 1.0.20 (recommended), and download the installation package. Or, you can click the following download link:

- 32-bit OpenSSL installation package (direct download)

- 64-bit OpenSSL installation package (direct download)

Open the command line tool and go to the bin directory of the OpenSSL installation path.

Prepare the environment variables and enter set OPENSSL_CONF=openssl.cfg on the command line.

Generate certificate requests

Generate private keys and certificate requests by using OpenSSL.

Note: You must remember the password of the private key and save the private key file properly.

openssl req -newkey rsa:2048 -keyout key_pkcs10.pem -out csr.pem Generatinga 2048 bit RSA private key+++ writingnew private key to 'key_pkcs10.pem' EnterPEM pass phrase: Verifying- Enter PEM pass phrase: -----

While this command is being executed, you are required to enter the following information:

Country name (2-letter code): Use the International Standards Organization (ISO) format and enter the 2-letter country code. For example, enter CN for China.

State or province name (full name): The province. For example, Zhejiang.

Locality name (for example, city): The city. For example, Hangzhou.

Organization name (for example, company): The organizational unit. For example, Pinyin of a company name.

Organizational unit name (for example, section): For example, IT Dept.

Common name (for example, domain name of your website): The domain name of the website encrypted with SSL.

This is a domain name that uses SSL certificate. For example, pay.xxxx.com. Different URLs are defined here as different website domain names. For example: xxxx.com, www.xxxx.com, and pay.xxxx.com are identified as three different website domain names. The website domain name here must be the same as the SMTP/POP3 server name set by the mail client software.

Email address: Optional, the email address.

Challenge password: Optional.

Optional company name: Optional.

Use local key service

For your convenience, the BaaS platform provides a Java version of local key service.

Start local key service

The Java runtime environment must be version 1.7 or later.

Download the key generation tool. Click here to download.

Run the command java -jar baas-crypto-tool-1.0.0.jar --server.port=8080 to start the key service.

Generate certificate requests

After you start the key service, in the browser, enter http://localhost:8080/api/crypto/generateTlsKey? algo=rsa&isPkcs8=true&password=\${password} to generate the tlskey.zip file. Unzip the file to obtain client.csr and client.key. client.key is used to connect to the blockchain, and client.csr needs to be signed by the BaaS platform.

Note: Replace \${password} in the link with your own password.

Generate public and private key pairs

After you start the key service, in the browser, enter

http://localhost:8080/api/crypto/generateUserKey? algo=ec&isPkcs8=true&password=\${password} to generate the userkey.zip file. Unzip the file to obtain user.key and pub.txt. user.key is the private key of the user, and pub.txt is the public key of the user.

You can run this command twice to generate two public private key pairs. One is the key pair of the account and the other one is the recovery key pair.

Quick start

This guide describes how to apply for a blockchain in Ant Blockchain. You need to complete the following steps:

1. Create a consortium

- 2. Create a blockchain
- 3. Apply for blockchain permission
- 4. Develop applications

Prerequisites

You have activated Alibaba Cloud BaaS and logged on to Alibaba Cloud.

If you use an Alibaba Cloud account, click here to log on.

Create a consortium

Log on to the Alibaba Cloud BaaS console.

Select Contract Blockchains. If you do not have any consortia, click Create Consortium.

 Hyperledger Fabric 	ſ	+ Create Consortium						
Overview								
Tasks		Consortium Name	Number of Blockchains	Number of Members	Created At	Role	Description	Actions
Logs		allow in the second sec	2	1	Oct 16, 2019, 18:12:11	Consortium Administrator	test	Manage
 Ant Blockchain 		11.00	0	1	Oct 22, 2019, 13:25:44	Consortium Administrator	test	Manage
Overview								
Contract Blockchains		10.001	0	1	Dec 24, 2019, 14:34:14	Consortium Administrator	test	Manage Delete
Logs								
Enterprise Ethereum	101							< Prev 1 Next >
Application Development Service								
Enterprise Ethereum	н							

After the consortium is created, you can create a blockchain.

Create a blockchain

On the **Contract Blockchains** page complete the following steps to create a blockchain:

1. Click Manage corresponding to the blockchain to be created to enter the list of chain

	I My Consol tia						
 Hyperledger Fabric Overview 	+ Create Consortium						
Tasks	Consortium Name	Number of Blockchains	Number of Members	Created At	Role	Description	Actions
Logs	1000	2	1	Oct 16, 2019, 18:12:11	Consortium Administrator	test	Manage
 ✓ Ant Blockchain Overview 	10.000	0	1	Oct 22, 2019, 13:25:44	Consortium Administrator	test	Manage
Contract Blockchains	-	0	1	Dec 24, 2019, 14:34:14	Consortium Administrator	test	Manage Delete
Logs							Prev 1 Next >
Enterprise Ethereum Application Development Service							

management.

Application Development

Click Create Blockchain to enter the purchase page.

<	Blockchain Mana	gement									
Blockchain Management	+ Create Blockchain										
Project Management		Create Blockdram									
Member Management	Blockchain Name	Region	Specification	Network	Nodes	Created At	Expire At	State	Actions		
					No da	ta is available					
									< Prev 1 Next >		

On the purchase page, select the consortium, and the purchased blockchain will be configured in your selected consortium. Then select the duration of the blockchain according to your needs and click **Buy Now** (see **Purchase Guide**).

For more operations, see Manage consortium blockchains.

Apply for blockchain permission

After the blockchain is created, you can then apply for blockchain permissions to prepare for blockchain development.

On the blockchain list page, click **Apply** to apply for certificates and account. For more information, see **Quick Experience for Free**.

Blockchain Management	+ Create Blockchai	'n							
Project Management									
Member Management	Blockchain Name	Region	Specification	Network	Nodes	Created At	Expire At	State	Actions
	10.00	-		Running	4	Dec 26, 2019, 19:30:10	Jan 9, 2020, 19:42:49	 Already Applied 	View Manage More
	Annual Content	1000	tion and the second sec	Running	4	Jan 2, 2020, 14:20:00	Jan 3, 2021, 00:00:00	 Not Applied 	Apply
									< Prev 1 Next >
<	Blockchain Mana	agement							
Blockchain Management	+ Create Blockchair	n							
Project Management									
Member Management	Blockchain Name	Region	Specification	Network	Nodes	Created At	Expire At	State	Actions
	100 B	China (Hong Kong)		Running	4	Dec 26, 2019, 19:30:10	Jan 9, 2020, 19:42:49	Already Applied	View Manage More
	(in second	China (Hong Kong)		Running	4	Jan 2, 2020, 14:20:00	Jan 3, 2021, 00:00:00	Download !	Signed Certificate
									Root Certificate (trustCa) at >

Then download certificates and development components to start develop blockchain applications.

Develop applications

You can refer to Development Guides for more information about application development.

Enterprse Ethereum - Quroum

Quick start

Alibaba Cloud BaaS provides a quick mode to create and deploy secure Enterprise Ethereum -Quorum networks. You only need to specify required information, and Alibaba Cloud BaaS will automatically perform operations to create a complete Quorum network.

Note: After you are getting more familiar with Quorum technology, you can customize and extend your blockchain network by inviting new members. These new members can deploy their Quorum nodes on cloud platforms (like AWS, Azure, etc.) or in on-premise environment. Alibaba Cloud BaaS can help you build up a cross-cloud, cross-region consortium blockchain network easily.

Create Enterprise Ethereum - Quorum

Log on to Alibaba Cloud.

- If you are using an Alibaba Cloud account, click here to log on .
- If you are using a RAM user, click here to log on.

Log on to the Alibaba Cloud BaaS console. Click the top left navigation panel and choose the entry **Enterprise Ethereum**.

Blockchain Services Enterprise Ethereum	Ŧ	Enterprise Ether	eum - Quo	orum					
Hyperledger Fabric Ant Blockchain		My Ethereums							
Enterprise Ethereum		Create Ethereum	Refresh						
		Ethereum ID/Name	State	Region	Netw	ork ID	Consens	us	Nodes
	14						No	data is	available
		My Nodes							
		Refresh							
		Node ID/Name	State	Access Endpoint		Ethereum	ID	Create	ed At

ClickCreate Ethereum.

Blockchain Services Enterprise Ethereum 👻	Enterprise Ether	eum - Quoru	im		
Overview	My Ethereums				
	Create Ethereum	Refresh			
	Ethereum ID/Name	State	Region	Network ID	Consensus

Specify the following information.

Parameter	Description
Name	We recommend that you enter a business-related name that is easy to identify.
Network ID	The network id of Ethereum network, which can' t be modified after creation.
Consensus	Istanbul BFT (Byzantine Fault Tolerance) Consensus: A PBFT-inspired consensus algorithm with transaction finality, by AMIS.
GasLimit	Gas limit can be applied to both individual transactions and blocks, block-gas-limit. For individual transactions, the gas limit represents the maximum amount of gas you indicate you are willing to pay for a contract execution transaction. The block gas limit represents the maximum cumulative gas used for all the transactions in a block. With the launch of Homestead, the block gas limit floor will increase from 3,141,592 gas to 4,712,388 gas (~50% increase).
Region	The region where your organization is located. We

	recommend that you select the region where your business application system is located.
Description	Enter the organization description.

Click the "Add Node" button to add Ethereum network node as you need.

Create Ethereum		×
Name: (j)		
supplychain		
Network ID: (i)		
2111		
Consensus: (j)		
istanbul		\sim
Difficulty: (j)		
0x01		
GasLimit: (j)		
0xE0000000		
Region:		
East China 2 (Shanghai)		\sim
Description:		
Add Node		Contact Us
Node Name	Action	1
wholesaler	Delete)
	Create	Close

Click Create.

On the **Overview** page, you can see the network and node that you created. The network

and node are in the **Creating** status.

It may take 15~40 minutes for the system to configure and create the resources.

eth-1px7i1y482vic DemoNetowrk	 Running 	cn-shanghai	5544332	istanbul	1	uid 431 Pg		AddNode Invite Delete
eth-u9jla0x1w8m5 supplychain 📑	*Creating	cn-shanghai	2111	istanbul	4	uic _1 28	D,	AddNode Invite Delete

After you have created one network, you can click the name of the network in **My Ethereums** to view the status of the networks.

Blockchain Services Enterprise Ethereum 🝷	Enterprise Ethere	um - Quorum			
Overview	My Ethereums				
	Create Ethereum	Refresh			
	Ethereum ID/Name	State	Region	Network ID	Consensus
2	eth-pc8xy89f6zso 🤌 2	 Running 	cn-hangzhou	22	istanbul

In My Nodes, click the name of a node to view the details.

Blockchain Services Enterprise Ethereum	Enterprise Ethereum	n - Quorum									Quick Introduction	② Help
Overview	My Ethereums											
	Create Ethereum	Refresh										
	Ethereum ID/Name	State	Region	Netwo	k ID	Consensus		Nodes	Creator	Description	Action	
-	eth-pc8xy89%zso 🤌 2	Running	cn-hangzhou	22		istanbul		7	uid-1287		AddNode Invite	Delete
	My Nodes											
	Refresh											
	Node ID/Name	State	Access Endpoint		Ethereum ID		Created	Az	Creator	Description	Action	
	enode-1fm9bn8f2lby0 2	 Bunning 5% 	http://001 ws://0000		eth-pc8xy89f6	3250	Jan 9, 20	19, 15:12:11	uid-1287		Approve Explore	er 🥝
	enode-1jom89p1zy7ns 3	 Bunning 5% 	http: 006 ws:// 05		eth-pc8xy89f6	3250	Jan 9, 20	19, 15:12:11	uid-1287 54 P_{g}		Approve Explore	r Ø

Node details are included in tabs such as Configuration, Node Information, Security, and

