



# BYTOM

Bytom User manual V 1.0  
(Mining + Wallet)

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# 1. Installation Guide





# 1.1 Download Instructions

Download address:

**<https://github.com/Bytom/bytom/releases>**

Select the latest version, currently V 1.0.0

## Web Client

Need a command lines to run mining and web wallets

## Desktop Client

**inexperienced User**

No need command lines to run mining and wallet

## Web Edition with SIMD Acceleration Client

SIMD acceleration, same functionality as Web Edition client, but faster mining and synchronization

Intelligent("智")  
wliyongfeng released this 2 hours ago

Edit

Assets

bytom-1.0.0-darwin_386.tgz	18.9 MB
bytom-1.0.0-darwin_amd64.tgz	19.4 MB
bytom-1.0.0-linux_386.tgz	18.9 MB
bytom-1.0.0-linux_amd64.tgz	19.4 MB
bytom-1.0.0-windows_386.zip	18.8 MB
bytom-1.0.0-windows_amd64.zip	19.3 MB
Bytom-Wallet-desktop-Linux32-1.0.0.zip	76.6 MB
Bytom-Wallet-desktop-Linux64-1.0.0.zip	74.8 MB
Bytom-Wallet-desktop-Macosx-1.0.0.zip	74.6 MB
Bytom-Wallet-desktop-Windows64-1.0.0.zip	77.7 MB
bytomd-simd-v1.0.0-darwin_amd64.zip	9.13 MB
bytomd-simd-v1.0.0-linux_386.zip	7.95 MB
bytomd-simd-v1.0.0-linux_amd64.zip	8.07 MB
bytomd-simd-v1.0.0-windows_amd64.zip	8.89 MB
Source code (zip)	
Source code (tar.gz)	

# 1.1 Download Instructions

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If you have installed a test version before, please clean the data before installing V1.0.

If you have not installed any version before, please go to the next page.

**You need to clear the related data directory, the configuration file created by your test net will influence your main net.**

According to different OS, the location of the file is different:

- Mac: ~/Library/Bytom
- Linux: ~/.bytom
- Windows: %APPDATA%\Bytom

For example C:\Users\accountname\AppData\Roaming\Bytom

Also C:\Users\accountname\AppData\Roaming\BytomWallet,

Delete the folder, you will need to synchronize again the blocks.


# 1.2. Desktop Client Installation Instructions

For our example we will use the **windows 64-bit client**, other systems are similar.

The desktop installation package contains a large number of external libraries, so it is about 70 M.

**Desktop has been updated to 1.0.0**

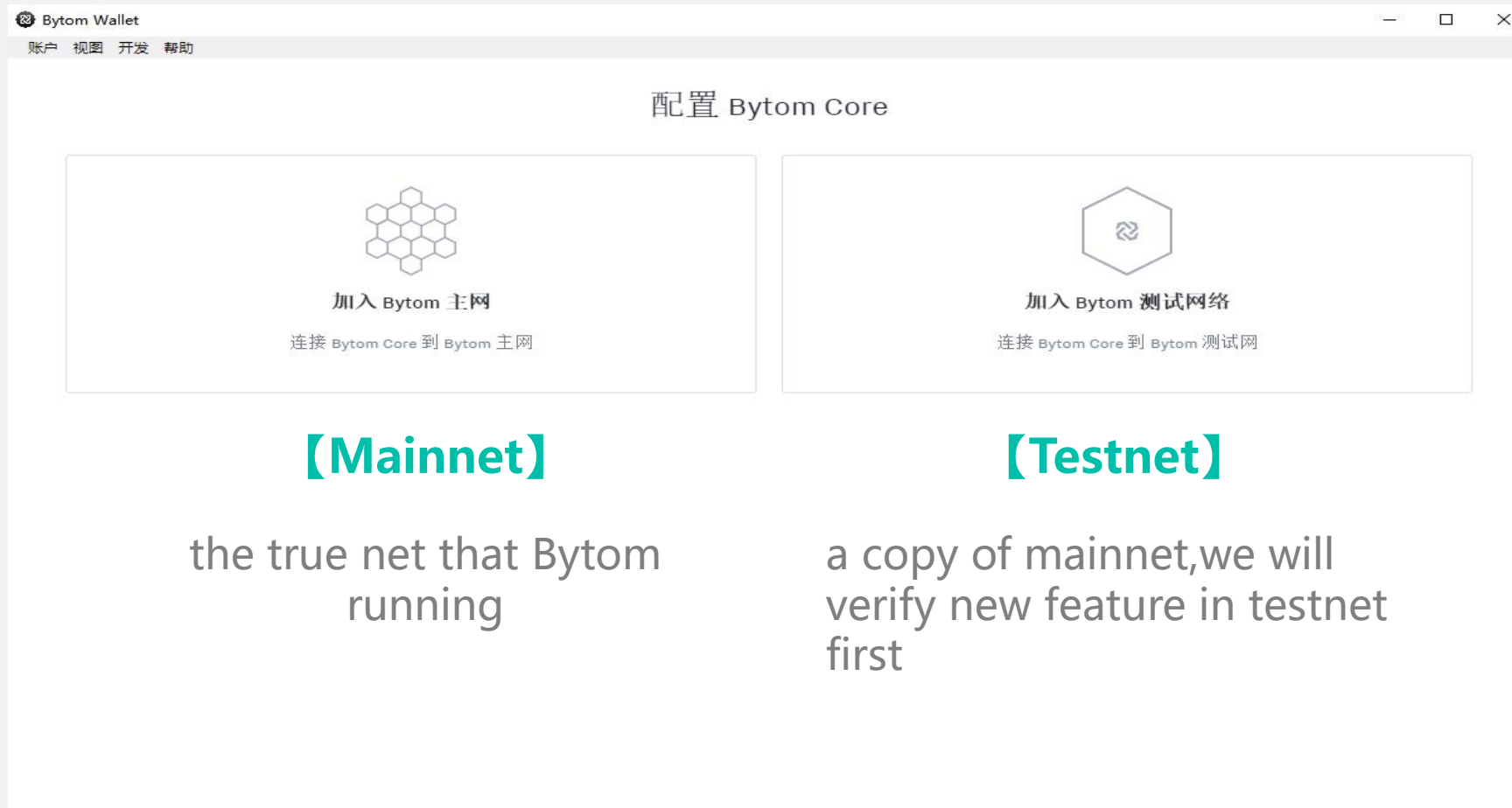
Once we download the installation package, unzip it to the your preference directory, and inside you will find the **Bytom Wallet.exe** file.



api-ms-win-core-rtlsupport-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	19 KB
api-ms-win-core-string-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	19 KB
api-ms-win-core-synch-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	21 KB
api-ms-win-core-synch-l1-2-0.dll	2018/4/17 17:06	应用程序扩展	19 KB
api-ms-win-core-sysinfo-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	20 KB
api-ms-win-core-timezone-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	19 KB
api-ms-win-core-util-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	19 KB
api-ms-win-crt-conio-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	20 KB
api-ms-win-crt-convert-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	23 KB
api-ms-win-crt-environment-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	19 KB
api-ms-win-crt-filestream-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	21 KB
api-ms-win-crt-heap-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	19 KB
api-ms-win-crt-locale-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	19 KB
api-ms-win-crt-math-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	28 KB
api-ms-win-crt-multibyte-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	26 KB
api-ms-win-crt-private-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	70 KB
api-ms-win-crt-process-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	20 KB
api-ms-win-crt-runtime-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	23 KB
api-ms-win-crt-stdio-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	25 KB
api-ms-win-crt-string-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	25 KB
api-ms-win-crt-time-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	21 KB
api-ms-win-crt-utility-l1-1-0.dll	2018/4/17 17:06	应用程序扩展	19 KB
blink_image_resources_200_percent.pak	2018/4/17 17:06	PAK 文件	26 KB
Bytom Wallet.exe	2018/4/17 17:06	应用程序	65,897 KB
content_resources_200_percent.pak	2018/4/17 17:06	PAK 文件	1 KB
content_shell.pak	2018/4/17 17:06	PAK 文件	10,026 KB
d3dcompiler_47.dll	2018/4/17 17:06	应用程序扩展	4,077 KB
ffmpeg.dll	2018/4/17 17:06	应用程序扩展	1,899 KB

# 1.2. Desktop Client Installation Instructions

Double Click in **Bytom Wallet.exe**, it will start running, please select between Main net or Test net



# 1.3. WEB Client Installation Instructions

For our example we use the windows 64-bit client, other OS similar.

We open the downloaded installation package and we can there are three files .exe

Md5 file: is used to verify the validity of the files

Bytomcli: command line tools

Bytomd: Main client program

miner: Currently not used

If you we do not use other requirements, we only extract **bytomd-windows\_amd64.exe** file. Extract to the desktop or your preference used path.

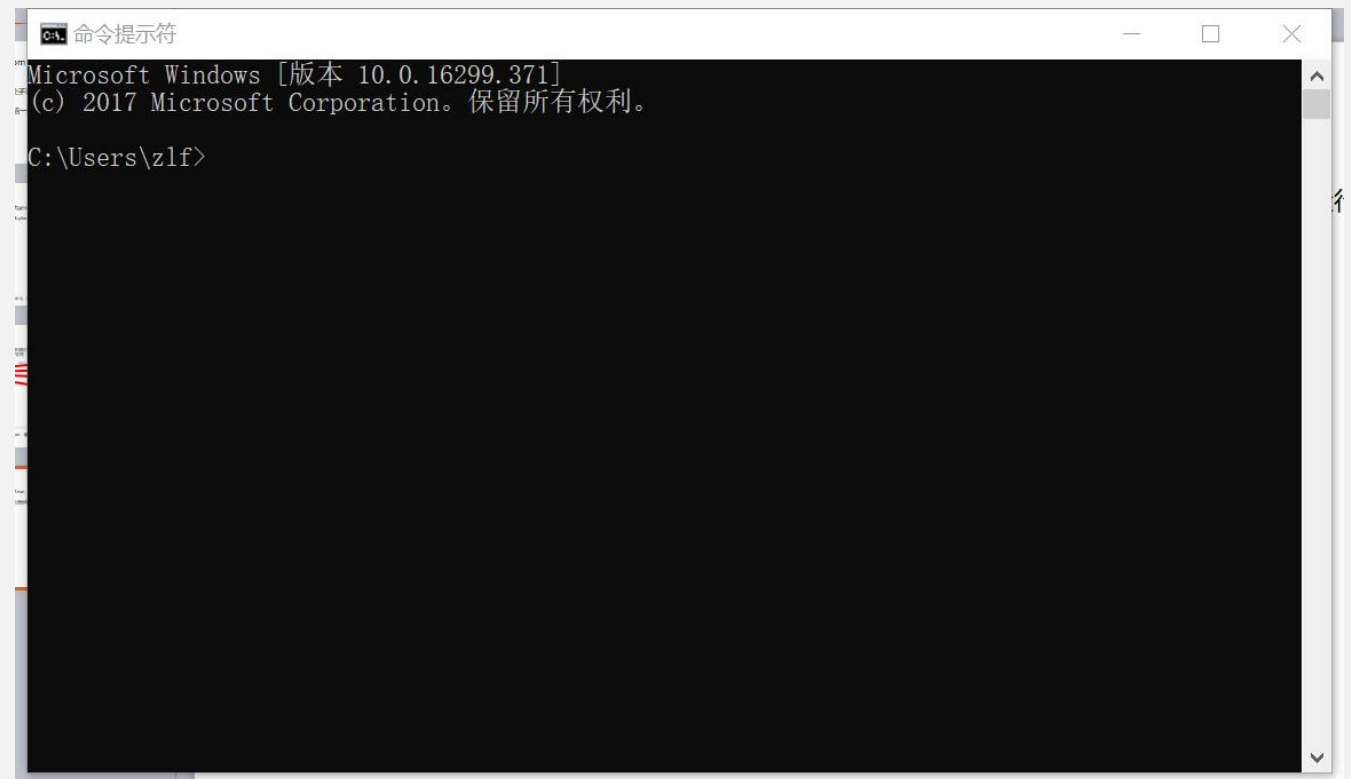
名称	类型	压缩大小	密码
bytom-0.5.0-windows_amd64.md5	MD5 文件	1 KB	否
bytomcli-windows_amd64.exe	应用程序	6,898 KB	否
bytomd-windows_amd64.exe	应用程序	8,977 KB	否
miner-windows_amd64.exe	应用程序	5,513 KB	否



# 1.3. WEB Client Installation Instructions

We start installing **bytomd-windows\_amd64.exe**. If you double-click it, it will prompt you to open the interpreter **cmd.exe**.

If it does not, we search for the interpreter typing **cmd** at **START**.  
As shown below, a black window will open.



# 1.3. WEB Client Installation Instructions

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We can see in **cmd.exe**, the current directory is C:\User\youraccount

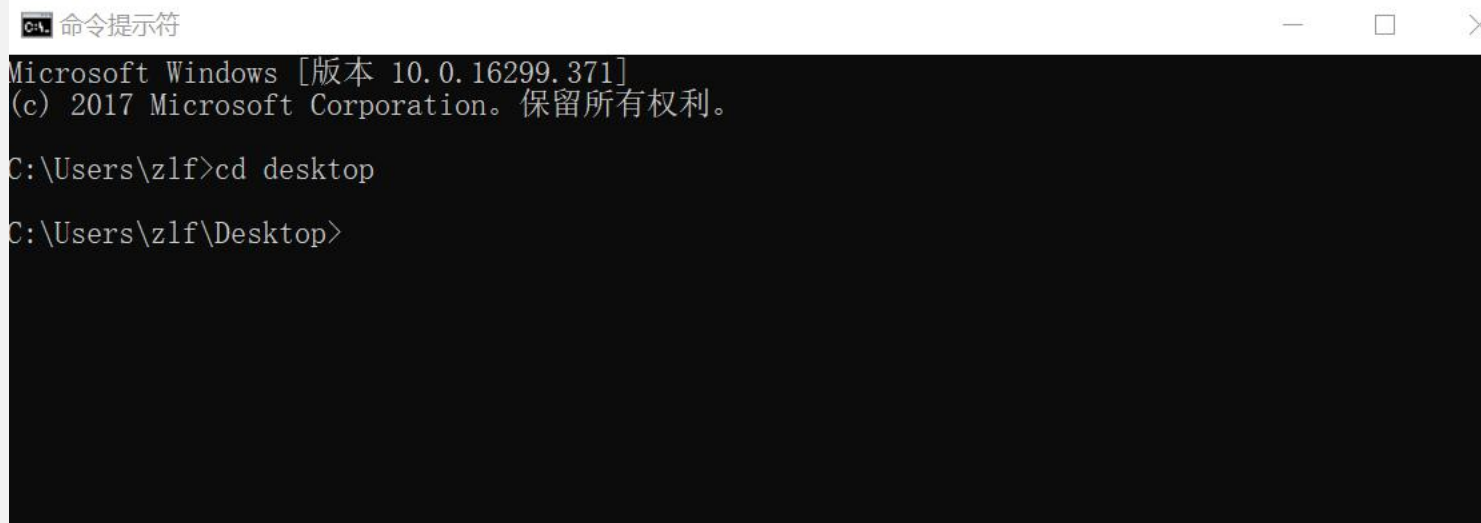
You need to switch to the directory where you installed the software, use the **cd (change directory)** command.

For example, if my preferred path is the desktop, you can use **> cd desktop**,

You can use the **tab key** to quickly navigate between the directories.

Then use the **dir** command to see if the installation software is in this directory.

The Start for the installation should look similar as below:

A screenshot of a Windows Command Prompt window. The title bar at the top reads "命令提示符" (Command Prompt) with standard window controls. The main area has a black background with white text. It shows the Windows version "Microsoft Windows [版本 10.0.16299.371]" and copyright information "(c) 2017 Microsoft Corporation. 保留所有权利。". The current directory is "C:\Users\zlf". The user has entered the command "cd desktop" and pressed Enter, resulting in the prompt changing to "C:\Users\zlf\Desktop>".

```
命令提示符
Microsoft Windows [版本 10.0.16299.371]
(c) 2017 Microsoft Corporation. 保留所有权利。

C:\Users\zlf>cd desktop
C:\Users\zlf\Desktop>
```

# 1.3. WEB Client Installation Instructions

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First we will initialize the network and enter the following instructions:

```
> bytomd-windows_amd64.exe init --chain_id mainnet
```

If there is no error message, the operation is successful.

**Mainnet** is the main network currently running, **testnet** is the test network

C:\> 命令提示符

```
C:\Users\zlf\Desktop>bytomd-windows_amd64.exe init --chain_id testnet
```

```
C:\Users\zlf\Desktop>
```

# 1.3. WEB Client Installation Instructions

---

After the network is initialized, enter the **following command in cmd.exe** to run the node:

If you do not want to mine, enter the following command to run only the node

```
> bytomd-windows_amd64.exe node
```

If you want to mine, you need to add a mining parameter to run the node and miner

```
> bytomd-windows_amd64.exe node --mining
```

If the operation is successful, a dashboard will pop up, good! It works!

If you start mining, then you will hear the sound of the machine.

## Notes:

- Use the newest version for your browser.
- We recommend to use Google Chrome, if you use Internet explorer it might not display.

# 1.4. WEB Edition + SIMD Acceleration Client Installation Instructions

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The process is the same as the WEB client installation method (**section 1.3**),  
the installation file used is **bytomd.exe**



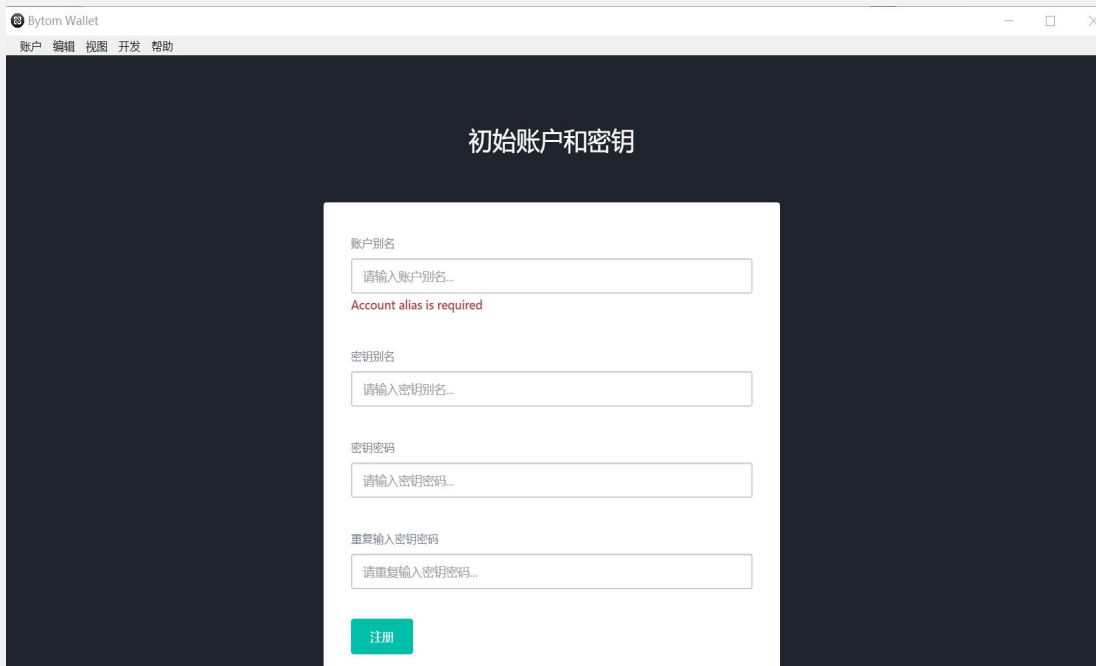


## 2. User instructions

# 2.1. Default Account

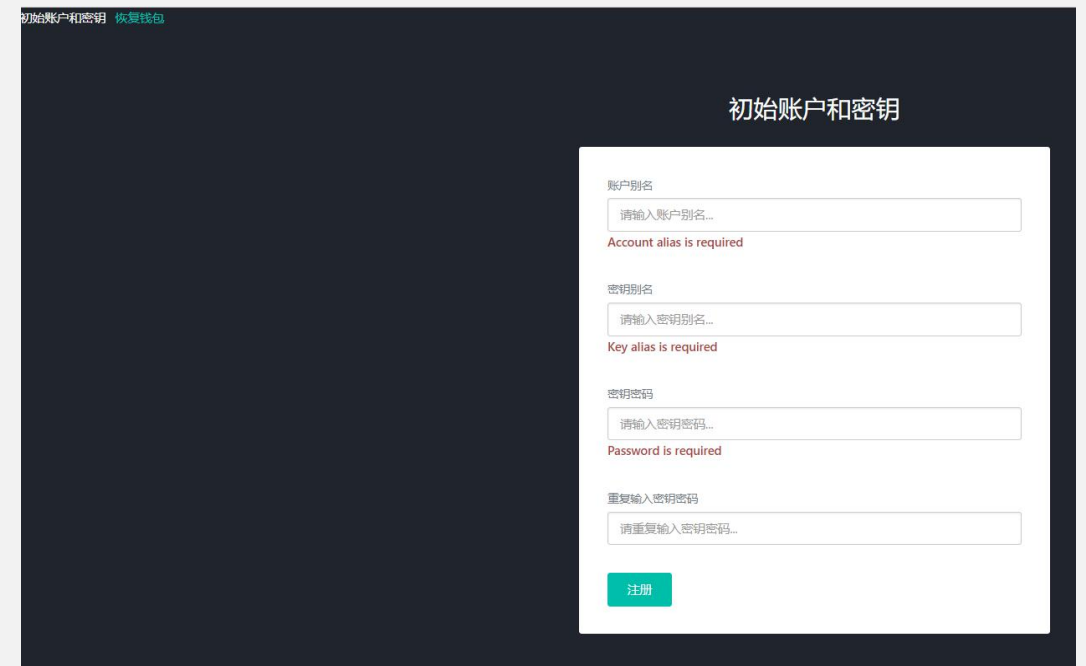
When the user uses the Bytom Client for the first time it is necessary to generate a new key.

## Desktop version



The screenshot shows the 'Bytom Wallet' desktop application window. The title bar includes the application name and standard window controls. The menu bar contains '账户' (Account), '编辑' (Edit), '视图' (View), '开发' (Developer), and '帮助' (Help). The main content area is titled '初始账户和密钥' (Initial Account and Key) and features a registration form with the following fields: '账户别名' (Account Alias) with a placeholder '请输入账户别名...' and a red error message 'Account alias is required'; '密钥别名' (Key Alias) with a placeholder '请输入密钥别名...'; '密钥密码' (Key Password) with a placeholder '请输入密钥密码...'; and '重复输入密钥密码' (Repeat Key Password) with a placeholder '请重复输入密钥密码...'. A green '注册' (Register) button is located at the bottom of the form.

## Web version



The screenshot shows the 'Bytom Wallet' web application interface. The title bar includes the application name and standard window controls. The menu bar contains '初始账户和密钥' (Initial Account and Key) and '恢复钱包' (Restore Wallet). The main content area is titled '初始账户和密钥' (Initial Account and Key) and features a registration form with the following fields: '账户别名' (Account Alias) with a placeholder '请输入账户别名...' and a red error message 'Account alias is required'; '密钥别名' (Key Alias) with a placeholder '请输入密钥别名...' and a red error message 'Key alias is required'; '密钥密码' (Key Password) with a placeholder '请输入密钥密码...' and a red error message 'Password is required'; and '重复输入密钥密码' (Repeat Key Password) with a placeholder '请重复输入密钥密码...'. A green '注册' (Register) button is located at the bottom of the form.

You need to enter an account Alias, Key Alias and Password

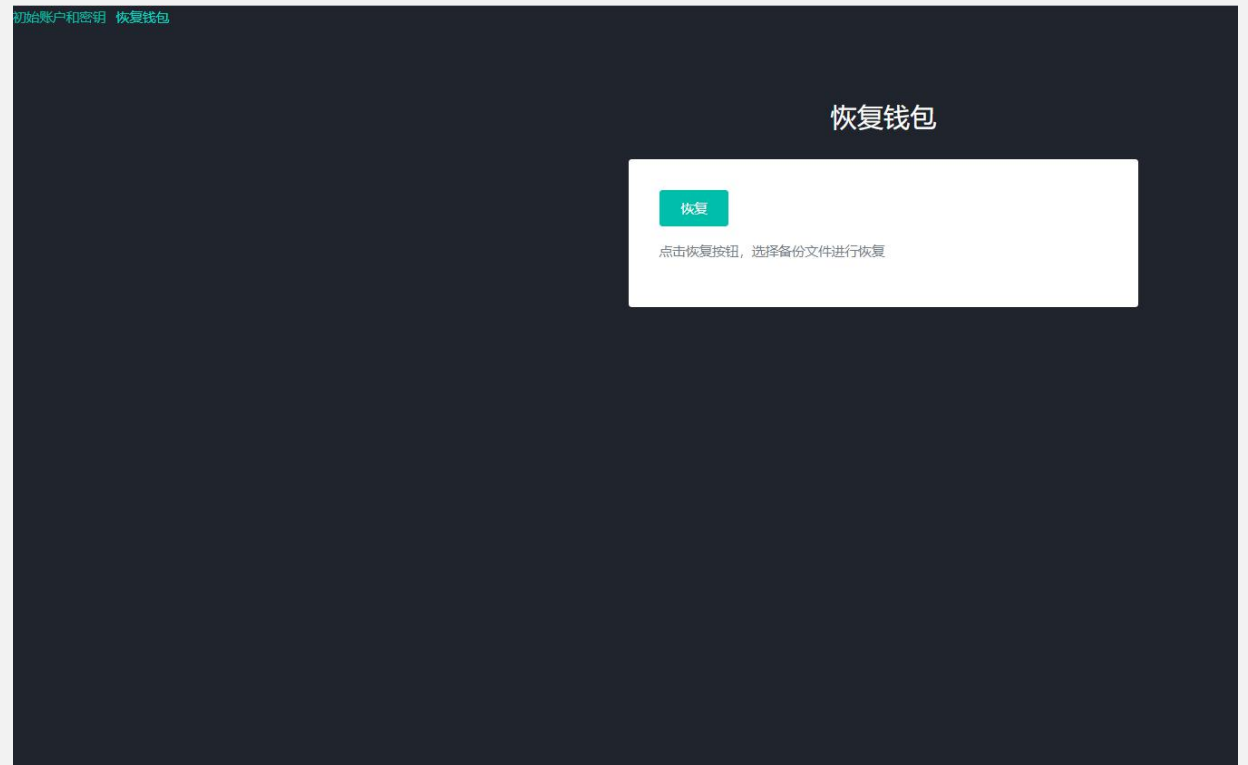
## 2.1. Default Account

---

If you have previously created and backed up your account and private key information, you can recover the account and private key directly from the stored **.TXT file**.

Click **Restore** to import the backup **.TXT file**. After uploading the file, you can restore it and enter the main page.

**Note:**  
You must use a .TXT file exported from another client, it might not be successful.

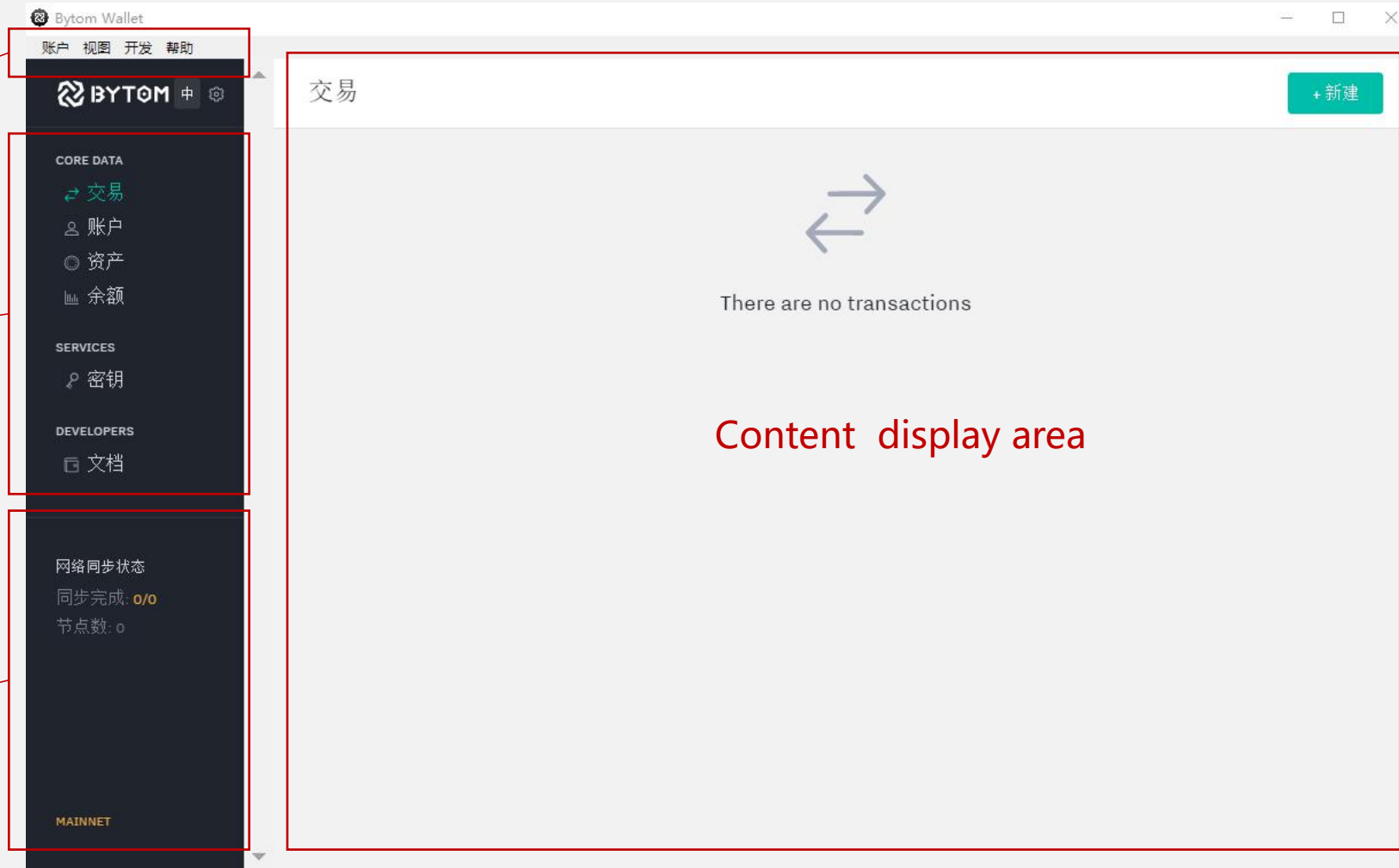


## 2.2. Main Interface Overview

Top Menu  
(Only Desktop  
version)

Navigation  
Bar

Status  
Information

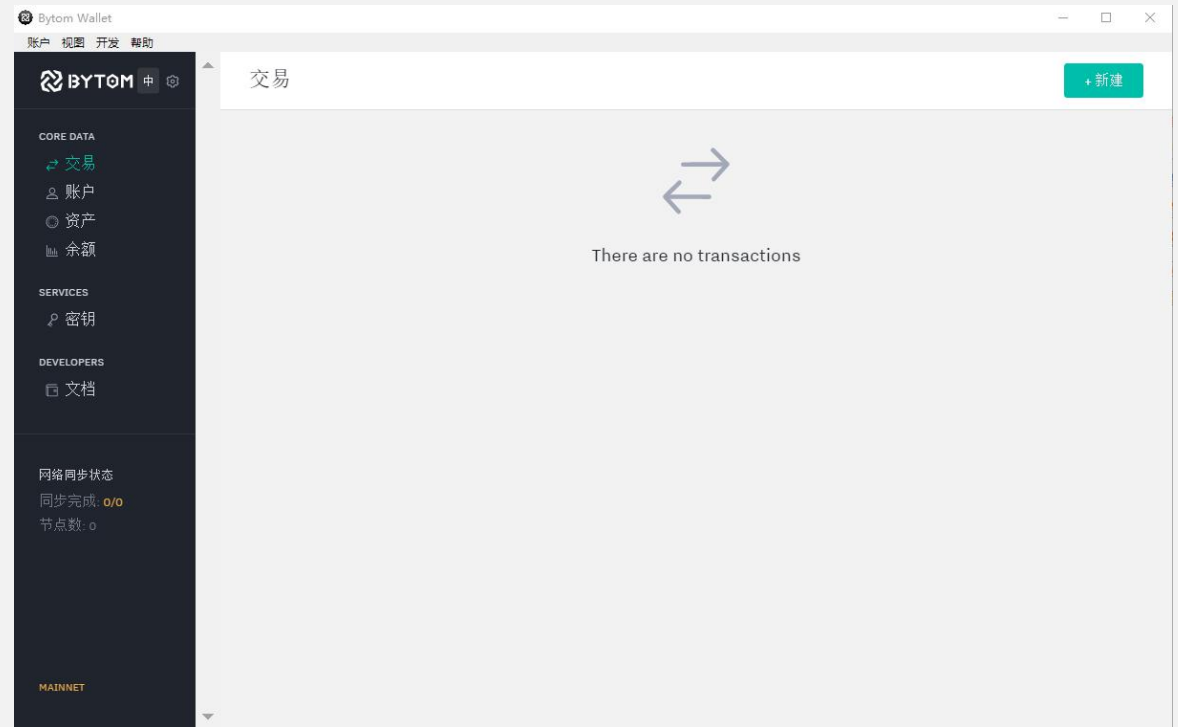


## 2.2. Main Interface Overview

- **Transactions:** Only contains your own transaction information.

If the sync block does not reach the packed block, the transaction information will not be displayed.

- **Accounts:** Displays all current accounts information.
- **Assets:** Display all current assets information.
- **Balances:** Displays the current balances of various assets and also requires the blocks synchronization to be displayed.
- **Keys:** Show all key information, generate accounts and assets to use.
- **Documentation:** Link to wiki documents.



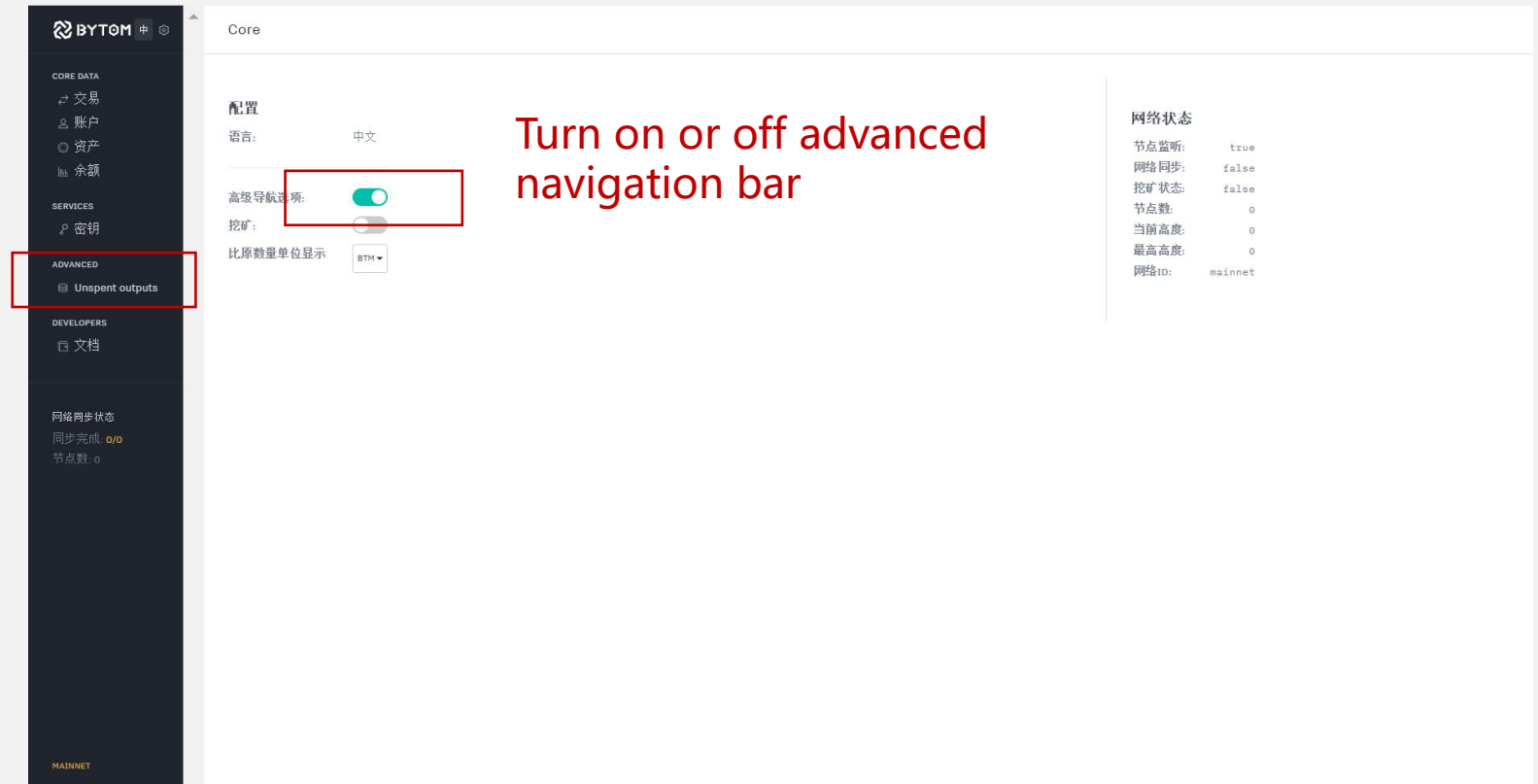


## 2.2. Main Interface Overview

If you select advanced navigation bar, you will see more content.

### Unspent outputs:

Unspent outputs will be shown here, please refer to the **BUTXO model**.



Turn on or off advanced navigation bar

## 2.3. Block Synchronization

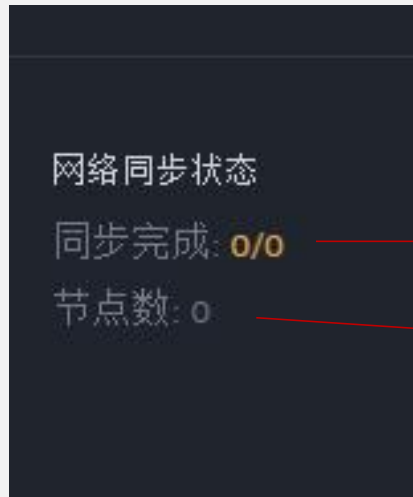
---

After the node is running, it will first synchronize all the blocks.

You can't trade before the block synchronization is finished (even if someone send you a coin, you can't see it).

If you're mining, check whether the figures are the same before and after the synchronization.

Experienced users, is advise to use SIMD Acceleration Client to speed up sync blocks process.



Current block Height / Highest block : both need to be the same after synchronized

Number of Nodes connected

## 2.4. Mining

Enter the Settings (click the gear button in the upper right corner of the navigation bar).

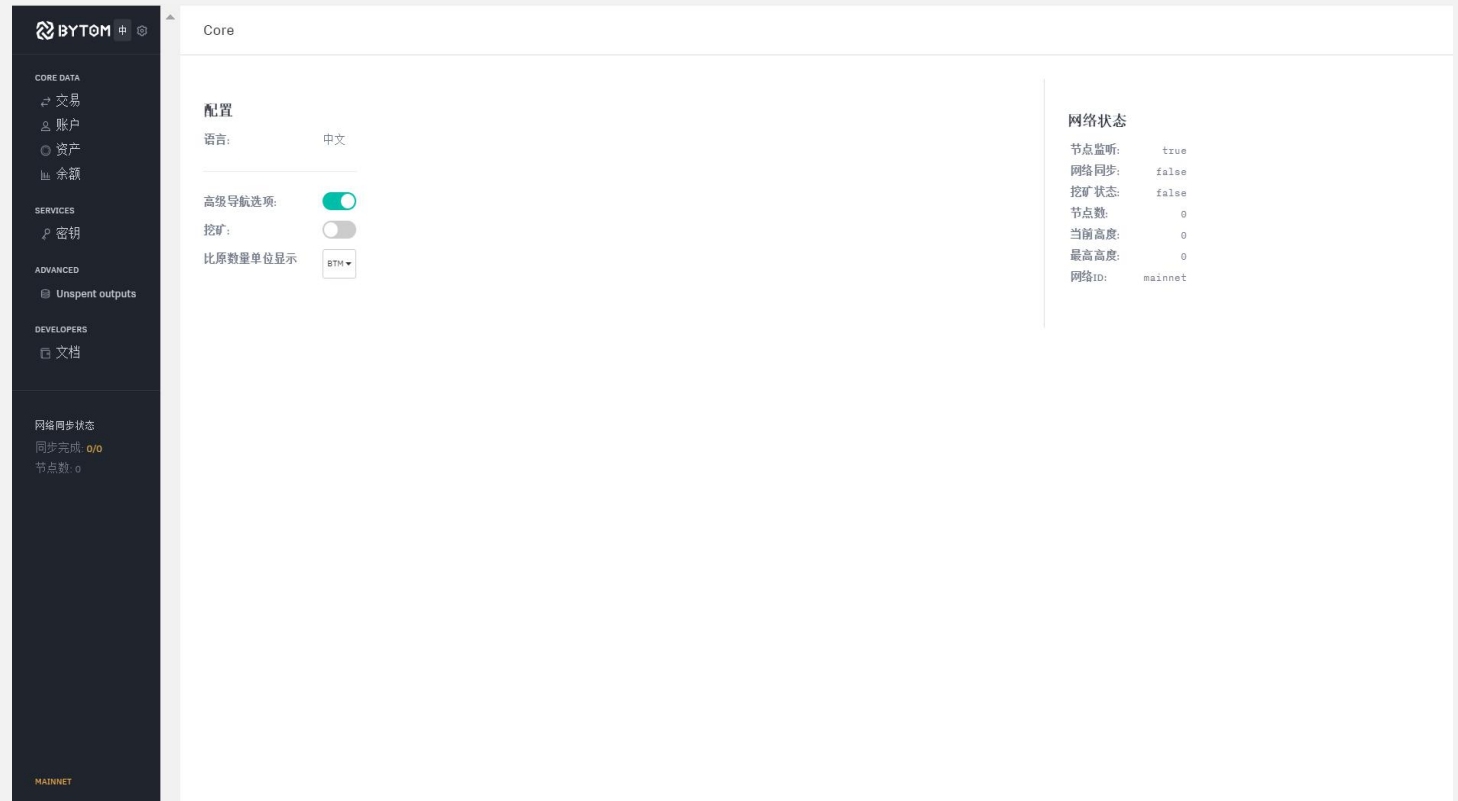
**Start/stop mining** with mining switch.

Mining earnings will show on the balances

After you turn on, you can see that your CPU usage is close to 100%

### Notes:

The current use of CPU mining as SOLO will be difficult to generate a block, it is recommended to consider the input/output before deciding to mine.



## 2.5. Transfer (New Transaction)

You can transfer money to other people by creating a new transaction

**New Transaction** → **Pending Transaction** → **Transaction Record**

Enter to transaction section, create a new transaction and enter the information.

简单交易

高级交易

简单交易

从

账户

Payment Account

别名 ▾

输入账户别名...

资产

Asset Type

别名 ▾

输入资产别名...

至

地址

Receiver Address

数量

Payment Amount

Gas

☒ 标准

Transaction fee

☐ 快速

☐ 自定义

密码

Password

请输入密码

提交交易

交易					+ 新建
交易ID:	cd66df6bf1056393d77958...	an hour ago	51 确认数	查看详情 >	
Coinbase	未成熟	数量	412.50000000	资产 BTM	账户 antpool2
交易ID:	02d13689ffb6d13fed3591...	an hour ago	52 确认数	查看详情 >	
Coinbase	未成熟	数量	412.50000000	资产 BTM	账户 antpool2
交易ID:	dd19a433f68be451d7cc52...	an hour ago	53 确认数	查看详情 >	
Coinbase	未成熟	数量	412.50000000	资产 BTM	账户 antpool2
交易ID:	592e0e8c0a2d51d598abd4...	an hour ago	56 确认数	查看详情 >	

If you can't see the record of the transaction, check if the blocks are synchronized.

## 2.6. New Account

In addition to registered accounts, you can create new ones

账户 › 新建账户

Account Alias

账户信息

别名

别名

Account alias is required

Keys Quantity

密钥和签名

密钥数

1

签名数

1

传输所需的密钥数

密钥1

☒ 使用已有的密钥

请选择...

☐ 提供已有的扩展公钥

[Provide an existing public key](#)

提交

Multiple keys for multi-sign  
accounts for different cases.



## 2.6. New Account

In theory for security purposes, the account address should be changed after every transaction. The Bytom client provides the ability to generate new addresses.

账户 > 账户 zhong 新建地址

详情 Raw JSON

ID	0CSDB911G0A02
别名	zhong
扩展公钥数	1
签名数	1

扩展公钥 1

账户公钥	2783b95b89a636c203b3dfdf4574d9e1a8529210e9774af04d788bcd1cb923dff8846a0e3009835881baf5b99925f58b0fe4efbb88fd81fd081f9569e974c163
密钥索引	1

拷贝这个地址以用于交易中:

tm1qth632n75jxrifmy2xnu6te2gq33putkzfes63z5

拷贝到剪贴板

关闭

## 2.7. New Asset

Go to the Assets section and click New

### 资产信息

别名

别名

Asset alias is required

定义

```
{
  "name": "",
  "symbol": "",
  "decimals": 8,
  "description": {}
}
```

内容必须表示为JSON对象

Multiple support for  
assets.  
Only few people use it.

### 密钥和签名

密钥数

1

签名数

1

所需的签名数

密钥1

☒ 使用已有的密钥

☐ 提供已有的扩展公钥

请选择...

# 2.8. Balances

Only the balances of the assets you have will be displayed on the this page.

The balances will come from **mining revenue** or other **people's transfer**.

余额	
资产ID	ff
资产别名	BTM
数量	491920.42598701 BTM
账户别名	antpool2

## 2.9. New Key

In addition to initial generated key, users can also generate other new keys.

密钥 > 新建密钥

密钥信息

别名

请输入密钥别名...

Key alias is required

密码

请输入密码...

重复密码

请重复输入密码...

提交

# 2.10. Unspent Output

Compared to the original model based on BUTXO:

The balance is made up from an unspent input and can be compared to a change.

BYTOM 中

核心数据

交易

账户

资产

余额

服务

密钥

高级

未花费输出

帮助

文档

TESTNET 同步状态

同步完成: 1716/1716

节点数: 17

UTXO

ID ffad619fdb4703338e2b28... Raw JSON

资产ID	ff
资产别名	BTM
数量	412.50000000 BTM
账户ID	0CR96QRP60A02
账户别名	antpool2
合约程序	0014d48ddb0ac736122783a2043eb4ad4f2c2a89c7e8
程序索引	1
源ID	5933b380e38cd8ab430986f5809b23281184a13ecb927c1fcc59071d6e70121a
源位置	0
找零	false



# 2.11. Core Status

You can enter the core state through the settings button to display the current advanced settings and network status.

**Listening:** Listen to other nodes.

**Syncing:** Are you synchronizing?

**Mining:** Are you mining?

**Peer count:** number of connected other nodes.

**Current block:** current locally synchronized block height.

**Highest height:** highest block height in the network.

**Network ID:** Displays the type of network, **main network or test network**.

核心

配置

语言: 中文

高级导航选项: ☒

挖矿: ☐

比原数量单位显示: BTM ▼

网络状态

节点监听: true

网络同步: false

挖矿状态: false

节点数: 16

当前高度: 1700

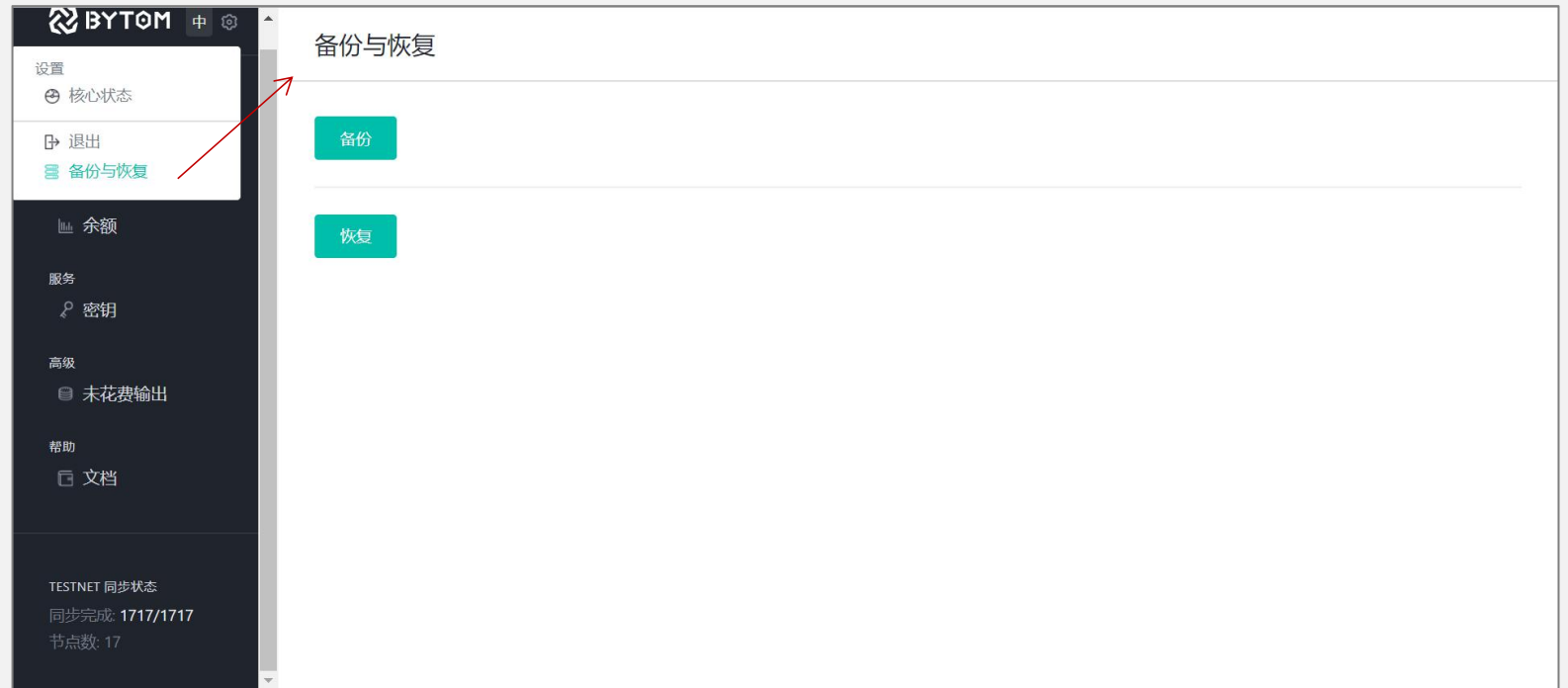
最高高度: 1700

网络ID: testnet

## 2.12. Backup and Restore

The account and key information can be backed up.

This can be used to restore the wallet.



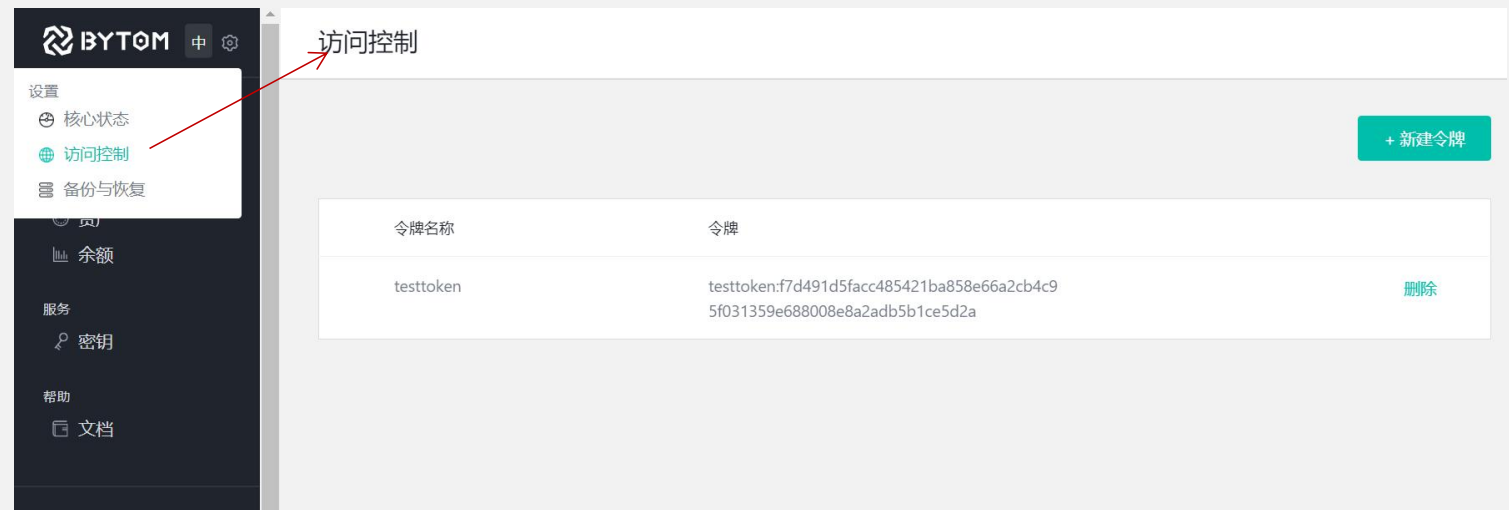
## 2.13. Access Control

If you want to access the wallet remotely, you need to create a token.

If you want to deploy the wallet to the server, you need to use the command line tool to generate the token.

Please refer to API :

<https://github.com/Bytom/bytom/wiki/API-Reference#create-access-token>



# Thanks for reading

We hope to help you to understand better!



Comments or Suggestions contact  
the wechat account: matrix2140