

Genaro GREEN PAPER

The first smart data ecosystem with a dual-strata architecture
integrating blockchain and storage layers.

V1.0

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Genaro Eden Overview

Genaro Eden is a secure, private, efficient, economical, and permanently online peer-to-peer storage space open to use by everyone. It is also the first DApp based on the Genaro Network. Users can upload, download, and store files by paying GNX.

Comparison and Advantages

Private: Data can only be accessed through a private key

Efficient: Intelligently picks the optimal node

Economical: Adopts a sharing economic model to ensure the lowest market price

Secure: Shredded, encrypted and peer-to-peer storage

Permanent: Redundant storage, multi-node backup

Word Definitions

1. Wallet

The wallet is the file that stores the Genaro Eden account and the asset information of the account.

2. Wallet address

The address is generated by the public key (the public key is generated by the asymmetric encryption algorithm), a 42-bit hexadecimal value string starting with 0x. For example: `0xc2d5ef1b5e6234c6bcbce87bb05d579c8e9d5720`

When the user makes a transaction, the address needs to be presented to the transferring user. What the users need to know is that the address can be derived from the private key, but the private key cannot be derived from the address.

3. Mnemonic

The mnemonic complies with the blockchain BIP39 industry standard, consisting of 12 (or 15/18/21/24) words in order generated by a random algorithm. It is an easy-to-record form of private key, which is convenient for user backup and storage. It is convenient for users to record complex private keys (64-bit hash values) and do backup management of the wallet. At the same time, the mnemonic can restore your wallet and let you change your password, so be sure to keep it safe.

4. Asset

Asset information owned by this account, including: assets (assets created by Genaro Eden), type, balance and issuer.

5. Wallet JSON form

The JSON format of the wallet is essentially the wallet's keystore. It is the encrypted private key file form, which is equivalent to your bankcard. You can save your wallet by saving it as a JSON file and password. At the same time, the wallet can be restored and asset transactions can be performed by importing the JSON file of the wallet and the password of the file.

6. Wallet Password

The wallet password refers to the password that you need to enter when you are working on wallets created by Genaro Eden or other imported Ethereum wallets. This password is used to encrypt and protect private keys. The password of the wallet created by Genaro Eden is set by default to be the account login password. As a decentralized application, the wallet password is not stored on your mobile device or our server. If it is lost, you will need to reset the new password with your mnemonic.

7. Gas

On the Genaro public network, nodes protect the network by sharing space and synchronizing block accounting. Since the node sharing needs to be staked and costs a certain amount of hard disk space, the node needs to receive a certain gas fee as a reward. The node will preferentially package transactions with higher gas charges. If the gas fee paid by the user when transferring funds is too low, the transaction may not be packaged successfully, causing the transaction to fail.

Gas fee = gas price (gas unit price) * gas quantity

8. Gas price and gas limit

On Genaro, transactions and calls to smart contracts require a miner gas cost, calculated in gas. The gas limit is the maximum amount you are willing to spend on a transaction amount. You can speed up or slow down your transfer by adjusting the gas price. You can set it yourself according to your own situation, or you can set the safe gas price that the system suggests.

$1\text{GNX} = 10^9 \text{Gan}$

9. Transaction Records

All the transaction records related to the account.

10. Buy space/traffic

Genaro Eden is a secure, private and permanent distributed sharing cloud network. The system uses the blockchain sharing economy system, and the files you store will be cut, encrypted and stored in data stack nodes. Therefore, before the Eden system memory is stored, you need to purchase space and download traffic in advance, and then upload and download files.

Manual

1 Download and Install

After downloading and installing the G-Box client, open the Genaro Eden program.

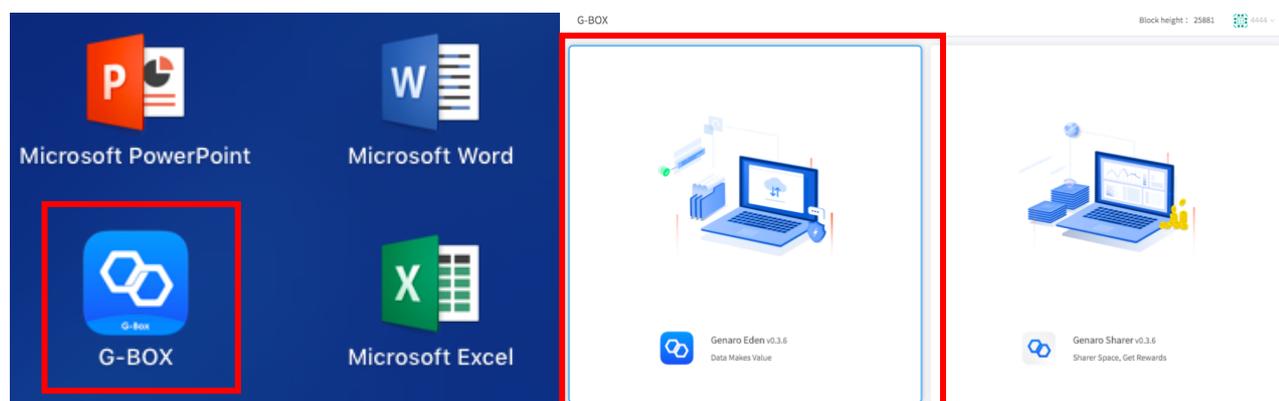
(Please look for the Genaro official download address)

Mac users download address:

<https://genaro-release.oss-cn-hangzhou.aliyuncs.com/gbox-1.0.0.dmg>

Windows users download address:

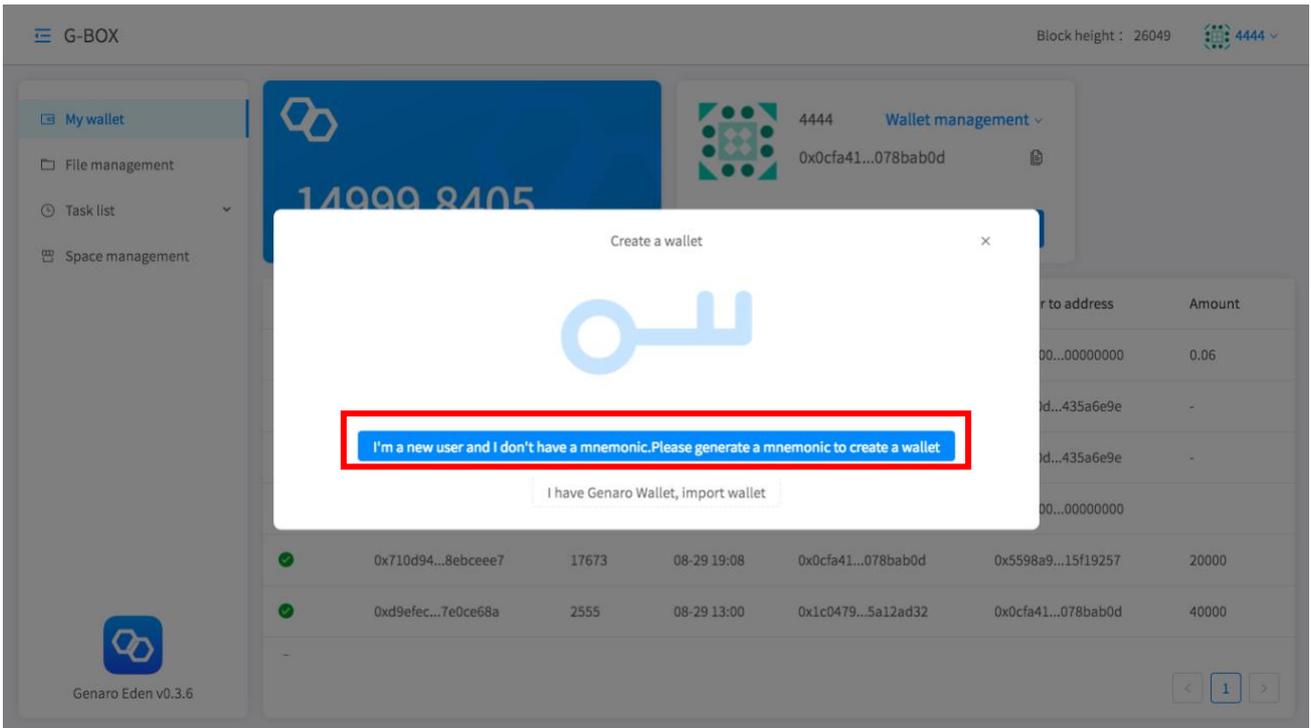
<https://genaro-release.oss-cn-hangzhou.aliyuncs.com/gbox-1.0.0.exe>



2 Create/Import Wallet

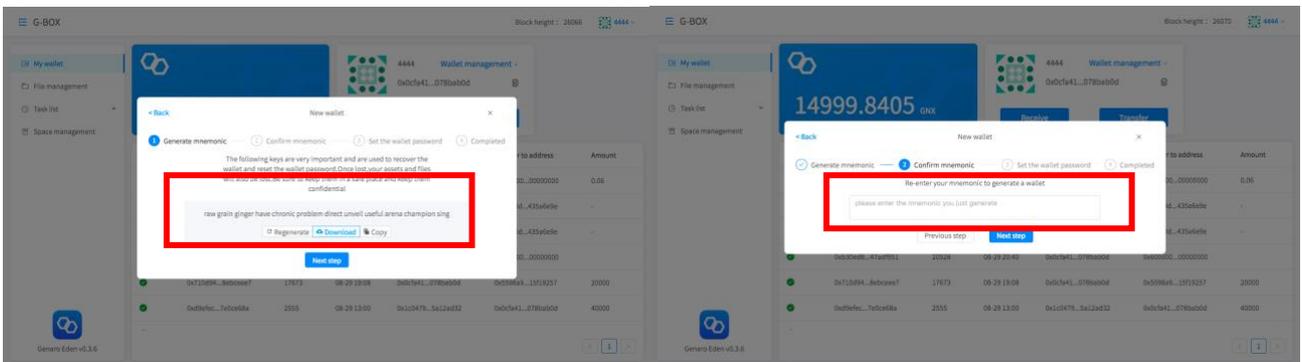
2.1 New User Creates Wallet

Create a new key (mnemonic) to generate a wallet.



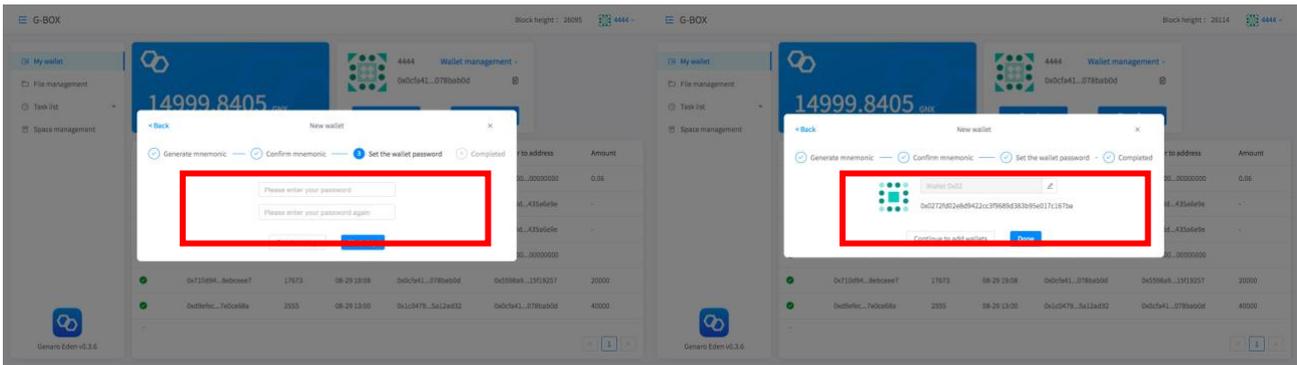
The first step is to generate the 12 mnemonic words and carefully write them down and keep them safe;

The second step is to confirm the backup mnemonic, then enter the 12-word mnemonic again, then click “confirm” to successfully generate the wallet;



The third step is to set the wallet password, which should be kept safe as it is the payment password of the current wallet;

The fourth step is to confirm the wallet information and generate a wallet.



Important Note:

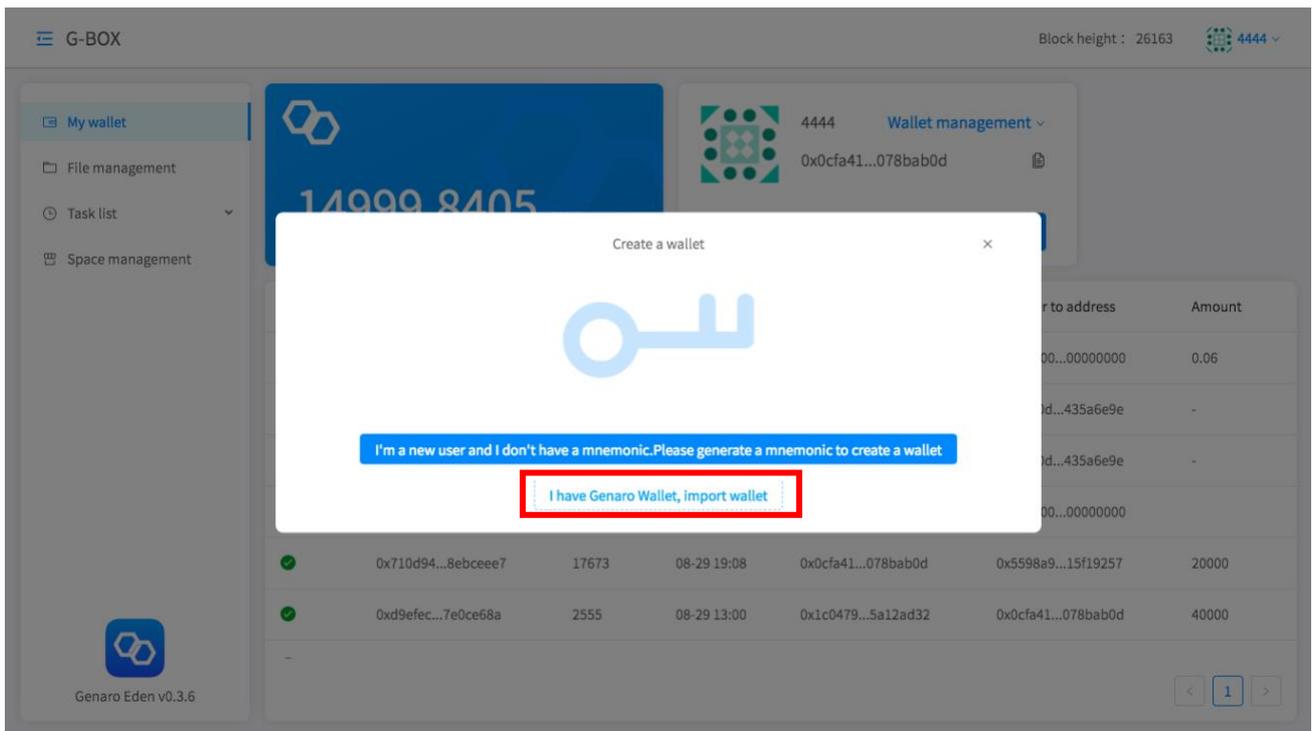
Genaro Eden is a decentralized application. Your key (mnemonic) is not stored in the Genaro program or on any server and will not be retrieved once lost. Please remember and back up the key (mnemonic) of the first login. Your digital assets, stored files are classified as their wallet directory. If the key is lost, the operations, storage files and wallet assets under this key will be lost.

When backing up the key (mnemonic), be sure to pay attention to 2 points:

- a. It is preferable to write it down on paper instead of saving in a networked device.
- b. Verify if the backup mnemonic is correct multiple times. Keep the backup mnemonics in a safe place and do anti-theft and anti-loss measures.

2.2 Import Original Wallet

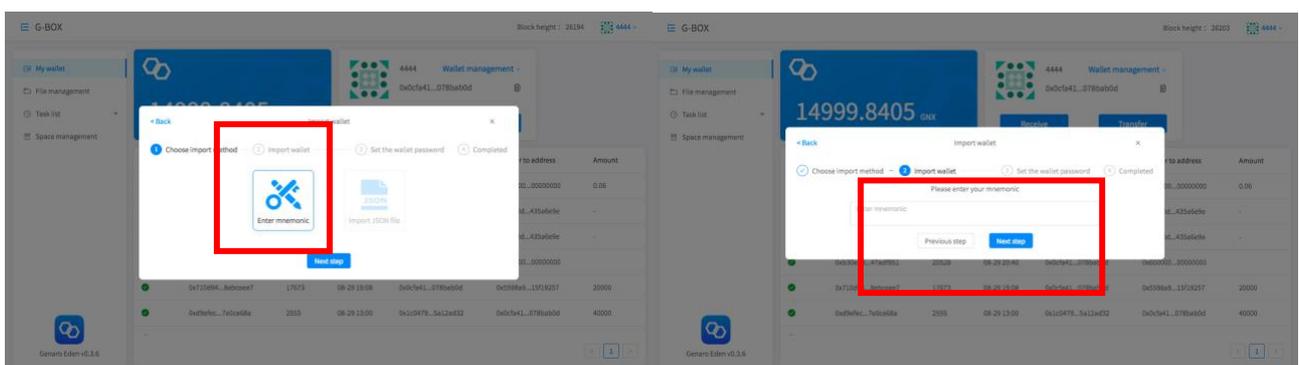
If you have created a wallet based on the Genaro Testnet, you can import the wallet directly by importing the key (mnemonic) or the wallet's JSON file.



Import wallet by importing mnemonics:

The first step is to choose the way to import the wallet. Choose to import it by key (12 mnemonic words);

The second step is to enter your mnemonic;



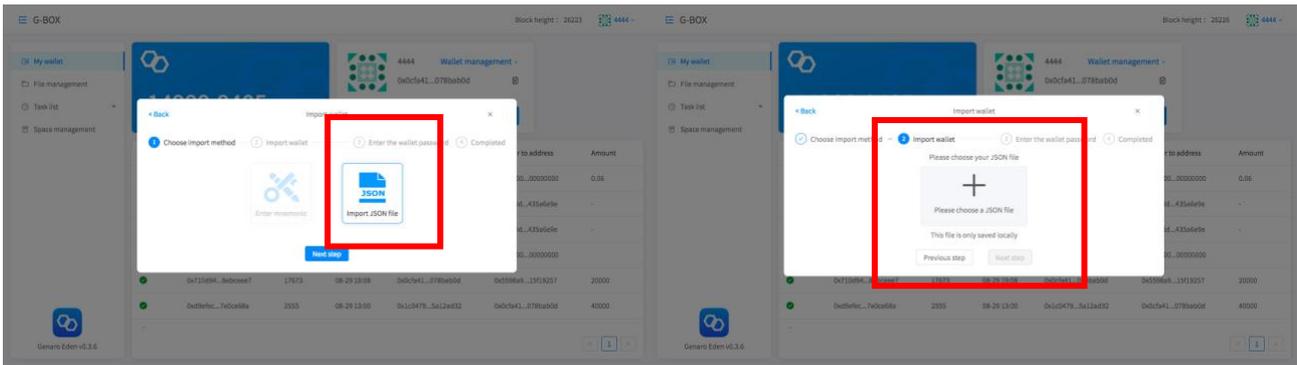
The third step is to set and remember the wallet password;

The fourth step is to confirm the wallet address information to import the wallet successfully.

Or import the wallet by importing the wallet JSON file

The first step is to click the "import the JSON file" button;

The second step is to upload your wallet JSON file;



The **third step** is to enter your wallet password;

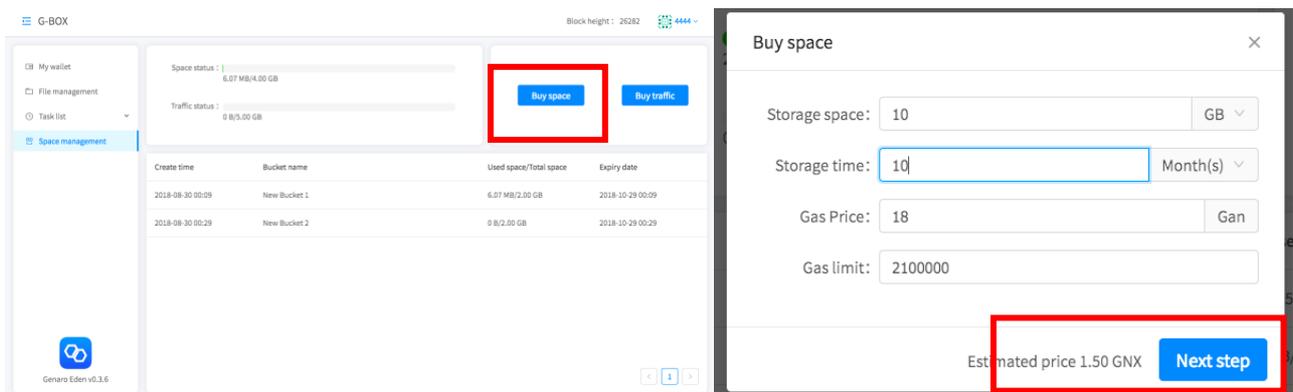
The **fourth step** is to confirm the information to import the wallet successfully.

Special Note: To import the wallet with a key (mnemonic), you can reset the password. However, if you import the wallet through the JSON file, you need to enter the original password of the JSON file wallet to import.

3 Buy Space/Traffic

3.1 Buy Space

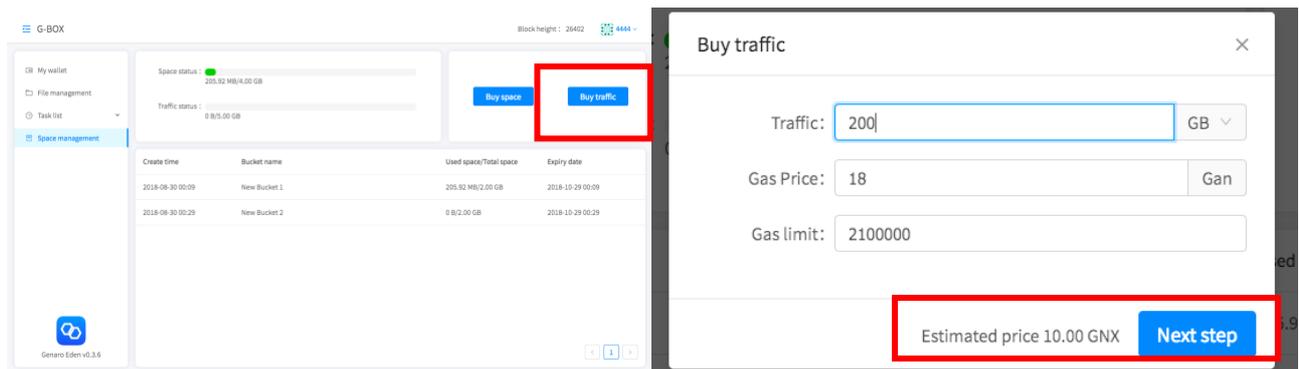
Before storing the file, you need to purchase the space of the storage space first. Click "Space Management" and enter the wallet password to enter the space management page. Click "Buy Space" and enter the amount of storage you want to purchase and the period of storage. Click "Next" to confirm the purchase information, then enter the wallet payment password and click "confirm purchase".



3.2 Buy Traffic

Purchase the traffic needed to download file. Click "Buy Traffic" to enter the traffic amount you need to purchase. Click "Next".

After confirming that the purchase information is correct, enter the wallet password and click "Confirm Purchase".



Special Note:

1. Because the information in the space management is local encrypted information, you need to enter your wallet password for signature verification to unlock it when you log in for the first time.
2. "Buy Space" "Buy Traffic" is a special transaction of the Genaro public chain, which requires a certain fuel fee (also known as gas fee) for the Genaro node reward, and it is not revocable after the transaction is issued.
3. The gas price is in the unit of Gan. $1\text{GNX} = 10^9 \text{Gan}$. You can fill in the gas price yourself, or the most suitable value for the default system. The node will preferentially perform transactions with higher gas fees. If the gas fee paid by the user when transferring funds is too low, the transaction may fail.

4 Upload/Download File

4.1 Upload file

Step 1: On the file management page, select the storage space you want to use, right-click to open or double-click to enter the storage space.

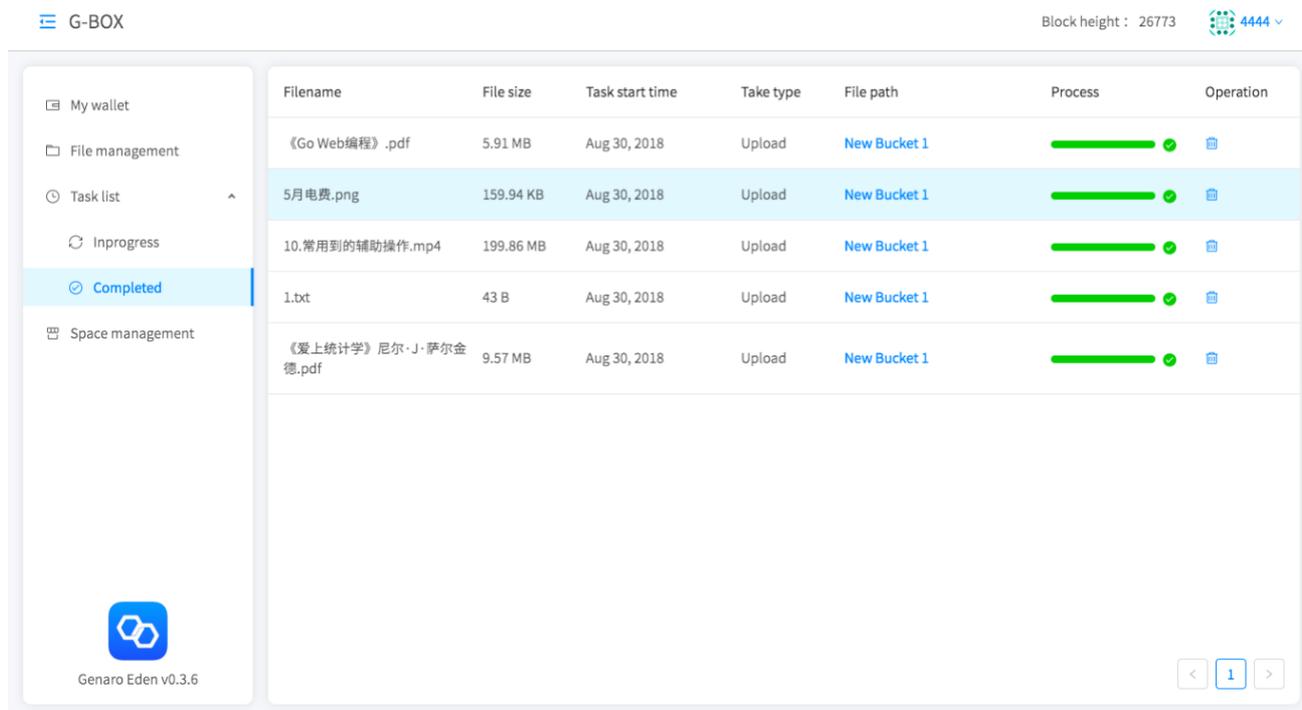
Step 2: Click "Upload File", select the file to be uploaded, click "Confirm", and the upload will follow.

5 View upload download history

View ongoing tasks.

In the task list, open the drop-down menu and click "In Progress" to see the tasks being uploaded or downloaded.

Click "Completed" to view all records of uploads and downloads.



The screenshot shows the G-BOX interface with a sidebar on the left containing navigation options: My wallet, File management, Task list (with sub-options Inprogress and Completed), and Space management. The main area displays a table of completed upload tasks. The table has the following data:

Filename	File size	Task start time	Take type	File path	Process	Operation
《Go Web编程》.pdf	5.91 MB	Aug 30, 2018	Upload	New Bucket 1	100% Complete	Download
5月电费.png	159.94 KB	Aug 30, 2018	Upload	New Bucket 1	100% Complete	Download
10.常用到的辅助操作.mp4	199.86 MB	Aug 30, 2018	Upload	New Bucket 1	100% Complete	Download
1.txt	43 B	Aug 30, 2018	Upload	New Bucket 1	100% Complete	Download
《爱上统计学》尼尔·J·萨尔金德.pdf	9.57 MB	Aug 30, 2018	Upload	New Bucket 1	100% Complete	Download

At the bottom of the interface, there is a logo for Genaro Eden v0.3.6 and a pagination control showing page 1 of 1.

6 Manage storage/download traffic

On the "Space Management" page, you can purchase storage and purchase download traffic. You can also view details of "my storage" and download traffic. You can view the total amount of space purchased, the space used, and the period of usage. You can also view the sum of the traffic purchased and the traffic used.

G-BOX Block height : 26842 

- My wallet
- File management
- Task list
- Space management

Space status : ■ 215.49 MB/4.00 GB

Traffic status : 0 B/5.00 GB

Buy space
Buy traffic

Create time	Bucket name	Used space/Total space	Expiry date
2018-08-30 00:09	New Bucket 1	215.49 MB/2.00 GB	2018-10-29 00:09
2018-08-30 00:29	New Bucket 2	0 B/2.00 GB	2018-10-29 00:29

 Genaro Edén v0.3.6 < 1 >

On the "File Management" page, you can also see the information overview of "my storage space". And you can "rename" the selected storage space, or "delete" the space that is no longer used.

G-BOX Block height : 26895 

- My wallet
- File management
- Task list
- Space management

Buy space
Rename
Delete spaces

The root directory



New Bucket 1



0 B / 2.00 GB

Open
 Buy space
 Rename
 Delete spaces

 Genaro Edén v0.3.6

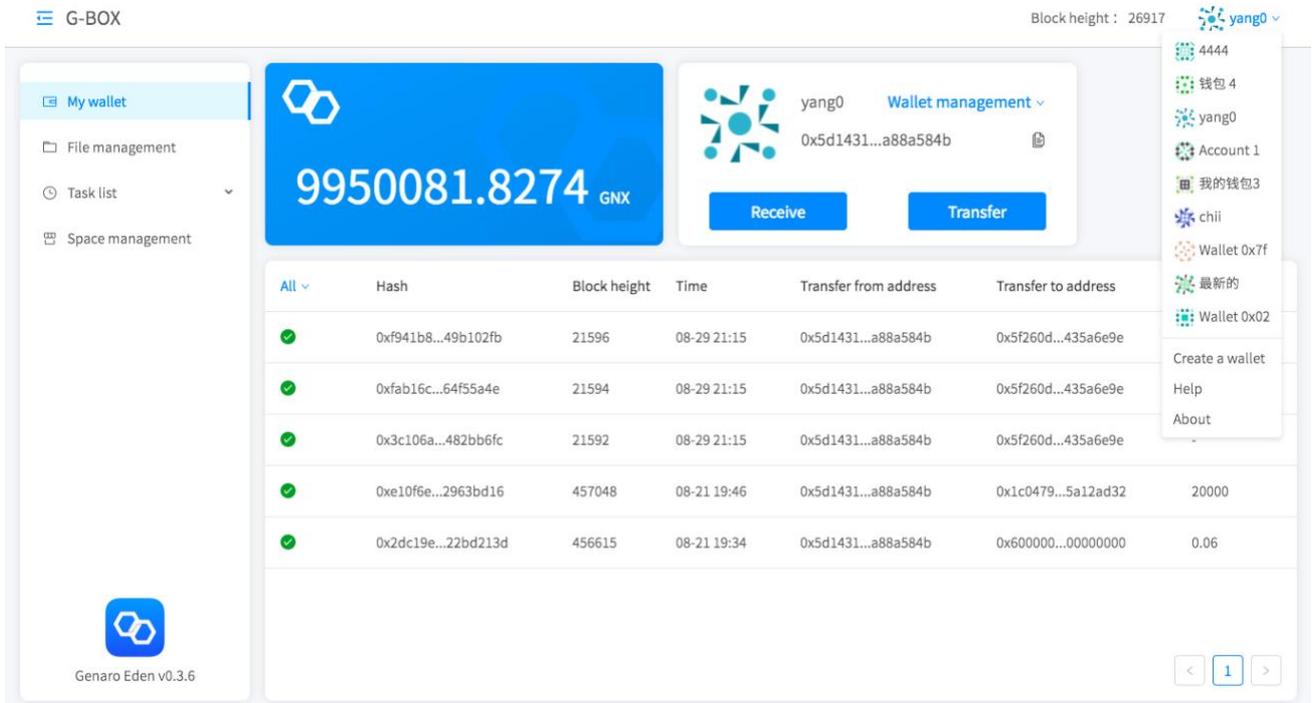
Note:

Please do not delete the purchased storage easily. The deleted storage space cannot be retrieved and needs to be purchased again to continue uploading. And all files in the storage space will be lost.

7 Asset Management

7.1 Check My Asset

On “My Wallet” page, you can instantly view the wallet balance in your current wallet. You can also switch the wallet in the upper right corner to view the assets of other wallets, including wallet balance, storage space, traffic and stored file data.

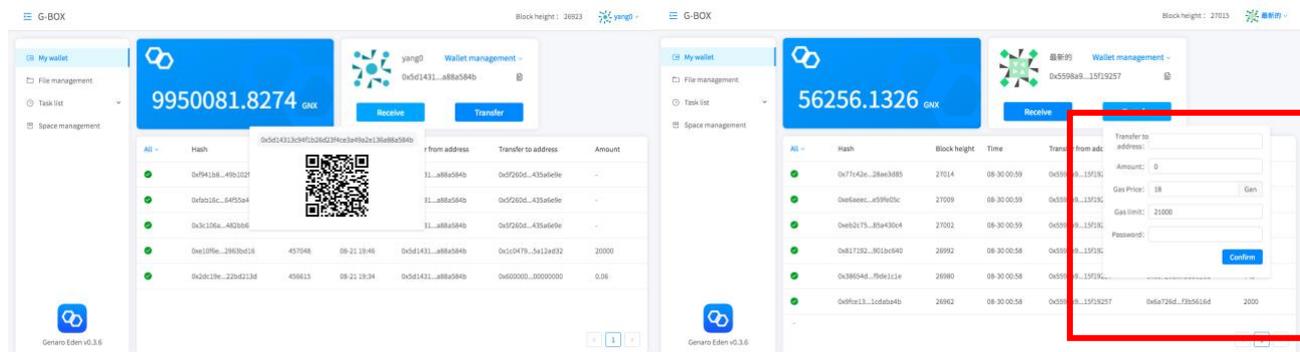


7.2 Receipt and Transfer

Click "Receipt" to view the current account's payment address. You can scan the code to recharge or copy this wallet address.

Click "Transfer" to transfer assets to other user's wallet address. Enter the payment address, amount, gas price and gas limit. Click "Confirm" and enter the wallet payment password to confirm

the transfer.



Note:

Since the blockchain transfer is irrevocable and cannot be changed and recovered, please confirm that the payment address of the transaction is correct, and note that any financial dispute caused by operation error has nothing to do with Genaro.

7.3 View transfer transaction history

After the transaction order is initiated, the current transaction information can be viewed in the transaction record and instantly display the current trading status. You can also view the transaction records by filtering.

Processing:

All ▾	Hash	Block height	Time	Transfer from address	Transfer to address	Amount
🟡	0x6b29a3...d8ae78c3	-	08-30 01:25	0x5598a9...15f19257	0x0cfa41...078bab0d	999
🟢	0x6bb9a4...18ca44fd	27605	08-30 01:24	0x5598a9...15f19257	0x0cfa41...078bab0d	233

Transaction failed:

All ▾	Hash	Block height	Time	Transfer from address	Transfer to address	Amount
🔴	0x046d92...00185935	-	08-30 01:08	0x5598a9...15f19257	0xcb7dfa...d5360b83	299
🟢	0x2d9ac5...5fc36b7a	27220	08-30 01:07	0x5598a9...15f19257	0xcb7dfa...d5360b22	23

In the left drop-down menu, you can filter and view the transaction records, purchased space, and

purchased traffic.

全部 ▾	哈希值	块高度	时间	转出地址	转入地址	金额
全部 转出	0x37ed8c...001b1236	226693	08-11 16:38	0x1c0479...5a12ad32	0x600000...00000000	
购买空间	0xc28d98...dfcbcc02	224864	08-11 15:52	0x1c0479...5a12ad32	0xf4d93a...05282f68	5000
购买流量						
抵押	0x25deb4...b52e8f82	102966	08-09 20:30	0x1c0479...5a12ad32	0x600000...00000000	0.06
绑定节点	0xb7b756...061d928f	84535	08-09 14:43	0x1c0479...5a12ad32	0xa9c1dc...99e5aaa0	15000
✓	0xd1394c...abe8c8c0	84504	08-09 14:42	0x1c0479...5a12ad32	0x6ff790...c2c16463	12000
✓	0x7a156e...f445f1d8	63327	08-08 20:54	0x1c0479...5a12ad32	0xcf177d...38bc46b7	20000

8 Wallet Management

On the “My Wallet” page, click “Manage Wallet” to fix “Change Wallet Name”, “Delete Wallet”, “Change Wallet Payment Password” and “Export to JSON File”.

Block height: 27677 最新的 ▾

My wallet

File management

Task list

Space management

46633.5278 GNX

Receive

Wallet management ▾

- Change name
- Change password
- Export wallet to JSON file
- Delete wallet

All ▾	Hash	Block height	Time	Transfer from address	Transfer to address	Amount
✓	0x6b29a3...d8ae78c3	27609	08-30 01:25	0x5598a9...15f19257	0x0cfa41...078bab0d	999
✓	0x6bb9a4...18ca44fd	27605	08-30 01:24	0x5598a9...15f19257	0x0cfa41...078bab0d	233
✗	0x046d92...00185935	-	08-30 01:08	0x5598a9...15f19257	0xcb7dfa...d5360b83	299
✓	0x2d9ac5...5fc36b7a	27220	08-30 01:07	0x5598a9...15f19257	0xcb7dfa...d5360b22	23
✓	0x1f78c6...45612c7a	27209	08-30 01:07	0x5598a9...15f19257	0x447dfa...d5360b83	2000
✓	0x1c54e1...8c115e6c	27183	08-30 01:06	0x5598a9...15f19257	0x0cfa41...078bab0d	200

Genaro Eden v0.3.6

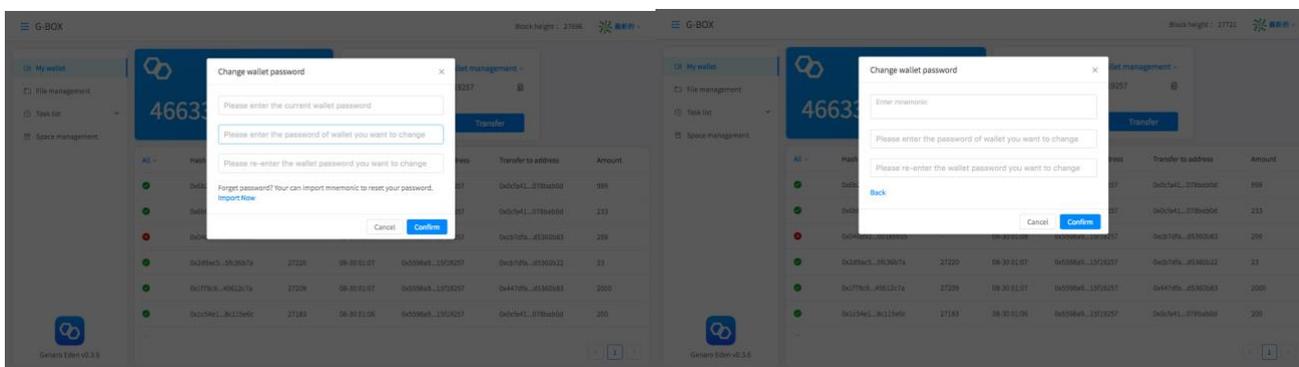
8.1 Back-up My Wallet

On the wallet management page, you can click "Export wallet as JSON file" to back up the wallet.

The backup wallet needs a password. Please remember the password of the wallet. If you forget the password, the JSON file of the backup wallet cannot be opened.

8.2 Change Password and Reset Password

In the “Wallet Management”, click "Change Password" to change the wallet password, and "Reset My Password". Changing your password requires your current wallet password. If you forget your wallet password, you can change the wallet password by importing the wallet mnemonic in the “Change Password”. **If you forget the mnemonic, you will not be able to retrieve it. So be sure to save your mnemonic.**



8.3 Delete Wallet

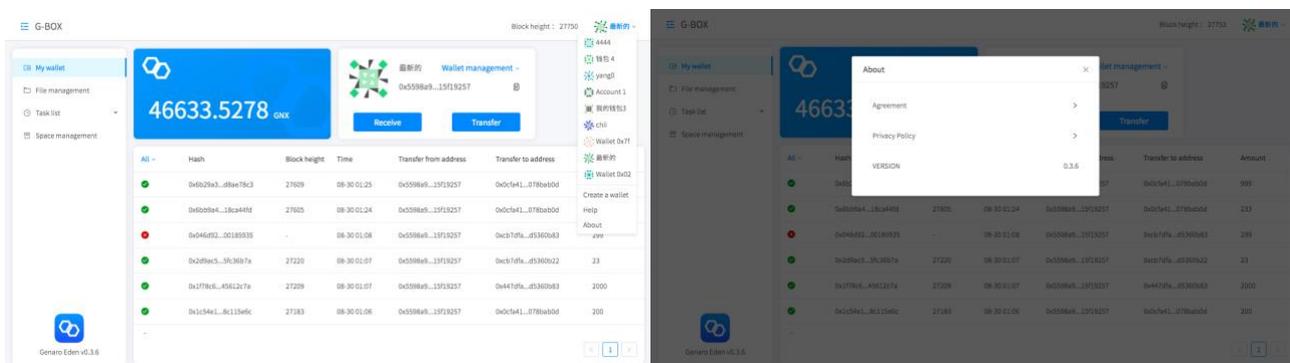
On the “Wallet Management” page, you can delete the wallet by entering the wallet password. Before deleting the wallet, please confirm that the wallet key has been securely backed up. Otherwise it will be permanently deleted and cannot be retrieved.

9 Other

9.1 Updated Version

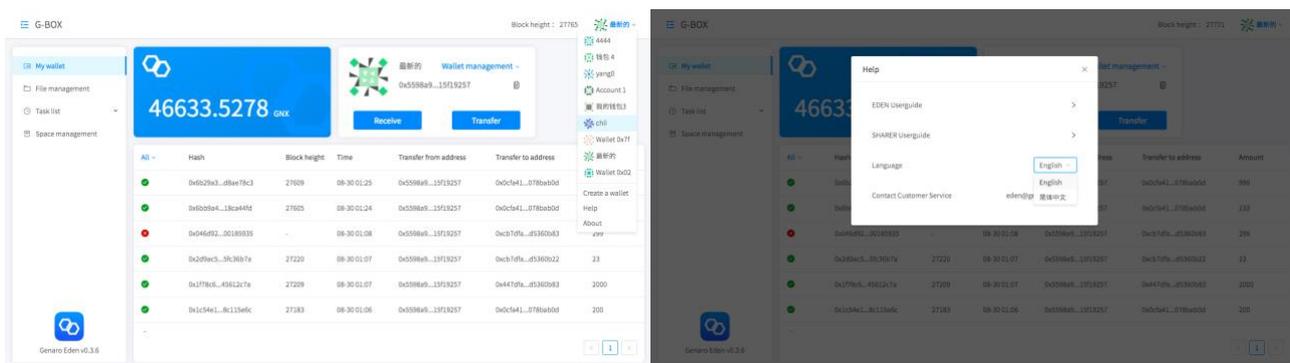
Click on the wallet name or wallet icon in the upper right corner. From the drop-down menu, click on "About" to view the current version.

When the new version is released, click on "Update Version" and the latest version of the Genaro Eden client will be automatically updated.



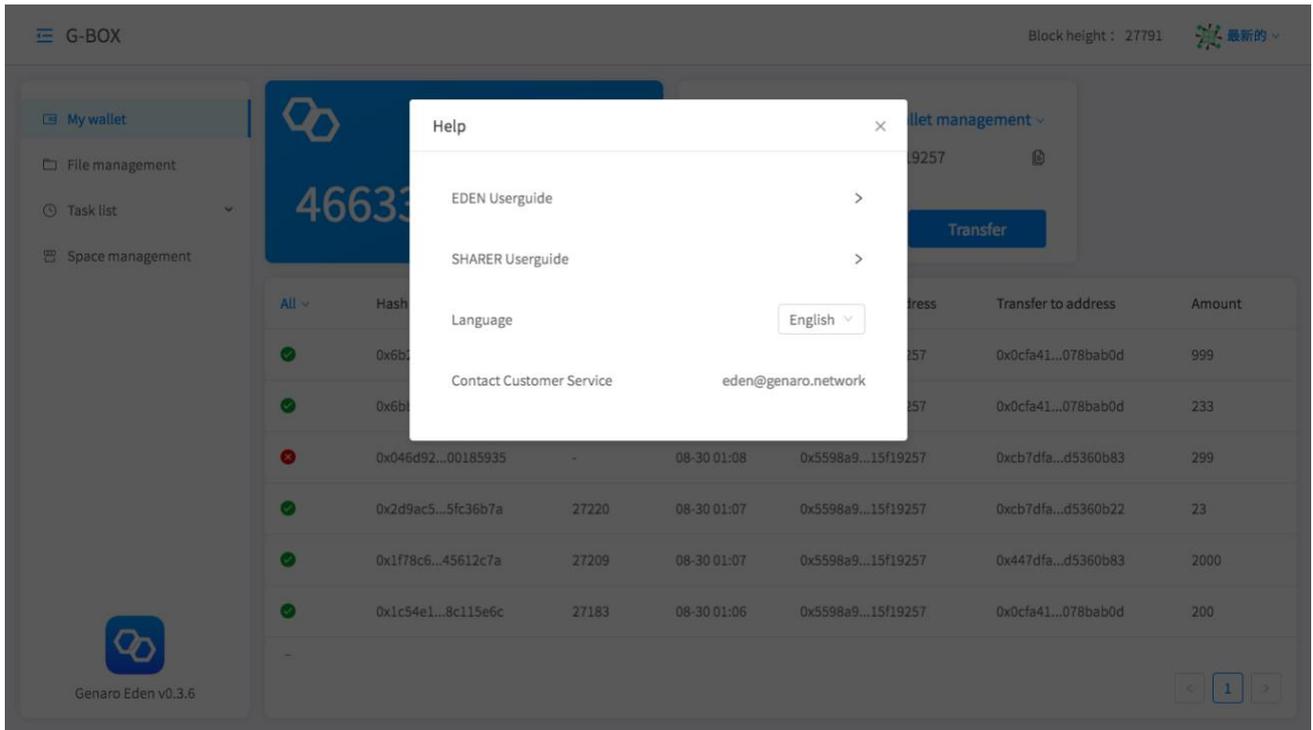
9.2 Change Language Setting

Click on the wallet name or wallet icon in the upper right corner. In the drop-down menu, click "Language" and select the desired language. For the time being, only Chinese and English are supported.



9.3 Help

Click on the wallet name or wallet icon in the upper right corner. In the drop-down menu, click on "Help" to view instructions for using Eden and Sharer. If you have any questions, you can also send an email to Genaro customer service.



10 Bill Payment (Current pricing is for Testnet and may be adjusted after testing)

Price:

Storage Cost: \$0.015GB/month

Bandwidth Cost: \$0.05 GB/download

Charge by the amount: Pre-charge mode. According to your actual usage, please first purchase the storage of the corresponding capacity and period of usage and then upload your file. You also need to purchase traffic first, and then the charge is according to the actual download and traffic usage. The uploaded file uses local bandwidth and does not consume purchased traffic.

FAQ

1. WHAT HAPPENS IF YOU FORGET THE KEY THAT WAS ENTERED WHEN YOU FIRST LOGGED IN TO THE EDEN CLIENT?

As a decentralized application, your key (mnemonic) is not stored in the Genaro wallet or on our server and will not be retrieved once it's lost. Please remember and back up the key (mnemonic) of the first login. Your digital assets and stored files are classified into the wallet directory. If the key is lost, the wallet to this key, the operations performed under this key, the stored files and the wallet assets will be lost.

Therefore, it is recommended that you use "double-insurance": save your "key (mnemonic)", and back up your "wallet JSON file + password" to ensure that your wallet will not be lost. The key (mnemonic) can directly retrieve the wallet and the file assets managed by the wallet. "JSON file + wallet password" can also be used to retrieve your wallet and assets in the wallet.

2. WHAT IS "BUY SPACE/TRAFFIC"?

Buy space/purchase traffic are two special aspects of the Genaro public chain. Genaro Eden is a secure, private and permanent distributed sharing cloud disk. The system uses a blockchain sharing economic model. Your stored files are cut, encrypted and stored in the data stack nodes shared by other Genaro Sharer users. When downloading the files, you will also take up the bandwidth of other sharing nodes. Therefore, before the Genaro Eden system memory is stored, the space and download traffic need to be purchased in advance before the file data and download files can be uploaded.

Upload storage file local bandwidth, no traffic consumption. The download file needs to use the bandwidth traffic of the sharing node and needs to be purchased in advance.

3 HOW TO CALCULATE THE FEE FOR FILE STORAGE ?

Storage Cost: \$0.015GB/month

Bandwidth Cost: \$0.05 GB/download

Charge by the amount: Pre-charge mode. According to your actual usage, please first purchase the storage of the corresponding capacity and period of usage and then upload your file. You also need to purchase traffic first, and then the charge is according to the actual download and traffic usage. The uploaded file uses local bandwidth and does not consume purchased traffic.

i.e.: Suppose you have purchased 10GB of storage space in the Genaro Eden client for 3 months, and purchased 200GB of download traffic, the purchase space needs: $0.015 * 10 * 3 = 0.45$ GNX

Purchase traffic cost: $0.05 * 200 = 10$ GNX

In the three months, you can upload a 10GB file in the storage space. You can download 200 times each time you download a 1GB file.

(Current pricing is for Testnet and maybe adjusted after testing)

4 WHY IS THERE A GAS FEE WHEN BUYING SPACE/TRAFFIC?

Buying space and buying traffic are two special aspects of the Genaro public chain. All transactions will be recorded by the node miners in the Genaro public chain blocks. So it takes some GNX to pay the gas fee for the miners' rewards.

5 HOW TO CHECK TRANSACTION HISTORY?

Click on "My Wallet" to view the current transaction information in the transaction history. And display the current transaction status in real time. You can also view the transfer, purchase space, and purchase transaction records by filtering.

6 WHAT TO DO IF YOU FORGET THE PAYMENT PASSWORD OF YOUR WALLET?

If you forget the wallet password created by the Genaro Eden client, you can click "log out" in the upper right corner of the Eden client to exit the current account, enter the correct mnemonic and re-login. At this time, the wallet password of the wallet created by the Genaro Eden client will be reset to the login password of this account.

7 HOW TO ENSURE THE PRIVACY OF THE FILES I UPLOADED TO THE GENARO EDEN?

Genaro Eden is a decentralized storage network based on the Genaro public chain. Except for users with private keys, no one has access. No design, development, operation or maintenance

personnel can view the user's personal data.

8 WHAT SHOULD I DO IF THE SPEED OF UPLOADING AND DOWNLOADING IS SLOW OR FAILED, OR THE DOWNLOAD PATH IS INVALID WHEN USING GENARO EDEN ?

- 1) Genaro Eden does not have any limit for uploading and downloading speed. In principle, the speed depends on your current bandwidth.
- 2) The interruption failure may be due to the instability of your network. Please check the network first.
- 3) The download path is invalid. Please check if the downloaded location is a valid download path. If the path does not exist, please switch the download path.

9 CAN I PREVIEW FILES ONLINE ?

Currently, Genaro Eden does not support online previews of images and videos, and this preview feature will be added to and improved in later versions.

10 WHAT SHOULD I DO IF THE SPACE I PURCHASED HAS EXPIRED? WILL THE FILE DISAPPEAR?

At present, the renewal of the storage space will not be accumulated. After purchasing the space, a storage space will be generated in Eden, and the file can be uploaded. When the storage space expires, you can purchase it again and transfer the original file content to the new file space.

11 WHAT SHOULD I DO WHEN I AM DOWNLOADING FILES AND IT SHOWS THAT THE TRAFFIC AMOUNT IS NOT ENOUGH?

If the traffic is not enough, you can purchase it again and it will be directly added to the total traffic.

12 WHY DID THE TRANSACTION FAIL?

If the transfer is unsuccessful, there are three possibilities:

a maybe the gas value is set too low.

b the cause might be the network, causing the wallet block to be out of sync.

c An incorrect trading order, such as your insufficient balance, or the wallet address you transferred to is wrong.

13 WILL THE MINER'S FEE BE DEDUCTED WHEN THE TRANSFER FAILS?

As long as the transaction is packed by the node, gas will be consumed, but due to the failure of the package or the failure of block verification (Insufficient cost of Gas, call for wrong contract method, etc.), it will result in consumption of gas and the amount of refund.

14 Where to buy GNX?

Before the Mainnet goes online, during the Testnet, you can purchase GNX on the existing exchanges, and transfer the amount to the Genaro official account as stake to exchange GNX test token. Experience the latest version of Genaro Eden with test tokens. After the Mainnet is online, the original GNX will be mapped to the main network according to Genaro's officially published mapping method.

15 DO YOU SUPPORT OTHER ERC-20 TOKENS? WHAT SHOULD I DO IF I HAVE TRANSFERRED ANOTHER ERC-20 TOKEN? HOW TO GET IT BACK ?

After the Testnet is launched, the latest versions of Genaro Wallet, Genaro Eden and Genaro Sharer wallets will only hold GNX test coins.

After the Mainnet is launched, the latest versions of Genaro Wallet, Genaro Eden and Genaro Sharer's wallets will only store real GNX.

Development of multi-wallet support and cross-chain trading will be considered in version iterations.

Note: Do not transfer other tokens to Genaro's exclusive wallet until the official website announces supporting other tokens. Otherwise, the consequence of losing the tokens will not be resolved by Genaro.

Download Addresses and Contact Us

Download Genaro Eden

Want to experience a more private, secure, efficient, economical, and permanent storage experience? Download Genaro Eden now and unlock your private storage!



MAC OS X



WINDOWS

Download Genaro Sharer

Download and use Genaro Sharer to share your free hard disk space for rewards !



MAC OS X



WINDOWS



LINUX / UNIX

Contact Us

| If you have any problems or suggestions when using Genaro products, please contact us:
eden@genaro.network

Genaro Sharer Overview

Genaro Eden Sharer (Genaro Sharer for short) is an economic, dual-strata cloud storage sharing network. The specified storage space can be shared, and when the Genaro Eden users upload the file fragments, the sharer gets the corresponding GNX storage reward. If the sharer's node is of good quality and the heft score can be added to the committee, you can also run the miner program to get the Genaro Network's block-package bonus and the fee generated by the Genaro Network transaction. The goal is to establish a token model through the principle of the sharing economy and release the social idle storage space and generate value.

Definition

Data Stack:

The data stack refers to all nodes that sharing hard disk space through Genaro Sharer, storing user data, and maintaining the Genaro storage network running.

My share:

I share my hard drive space and become a Genaro Network data stack node, thus maintaining the operation of the Genaro storage network. When a user stores a file slice uploaded by Genaro Eden, all sharers will receive a GNX storage reward.

Committee:

After the Mainnet goes online, if your data stack node heft value enters the whole network 101, it will become a member of the next Genaro Network committee. While gaining the benefits of the storage network, you can also run the miner program, synchronize the entire network block, and get the whole network outbound package reward and the whole network transaction fee reward of the Genaro Network.

Stake:

If you want to become a data stack sharer in the Genaro Ecosystem, you can get the Genaro Eco-Token Award by sharing the storage space and by staking corresponding GNX to Genaro to prove that it is a reliable data stack. After the stake, the stake heft will be obtained. And only after staking can you stake the shared node space to get the sharing revenue.

In the Genaro sharing ecosystem, the number of stakes will affect the heft ranking of the data stack for that wallet address. Of course, if the node acts wrongly, the system will also impose penalties in the form of deducting the corresponding hefts. In case of seriousness, some corresponding stakes will be deducted.

Binding node:

Once the stake is successful, the shared node ID can be bound to the stake wallet. Thus the bound wallet can gain the revenue and share the heft of the shared hard disk space.

Heft:

Heft refers to the overall performance of the data stack's contribution to the Genaro storage network. The hefts are the stake hefts and the storage hefts. The more assets staked, the higher the heft of the stake and the higher the total heft. The larger the storage space, the more files are stored, and the longer the storage time, the higher the storage heft and the higher the total heft.

Heft ranking:

The heft ranking refers to the total heft ranking of the entire network data stack. The top 31 of the session (which may change after the Testnet test) will be appointed as a separate committee to maintain network operations, run the Miner program, and get block rewards and transaction fee rewards.

Co-built nodes:

Users can build data stack nodes by joining other nodes. This helps the joined nodes get a higher heft ranking. After the team's intention is reached, the team's status will take effect at the next committee ranking. The applicant's heft will be added to the applicant's heft statistics, and they will not be ranked by their own heft. If a co-built node joins after the team enters the committee, then the application node will also receive the commission's mining bonus. The amount of the bonus is determined by the applicant's stake amount as a percentage of the total amount staked by the committee (for more details, see the income model below).

Genaro Sharer Manual

1 Download and Installation

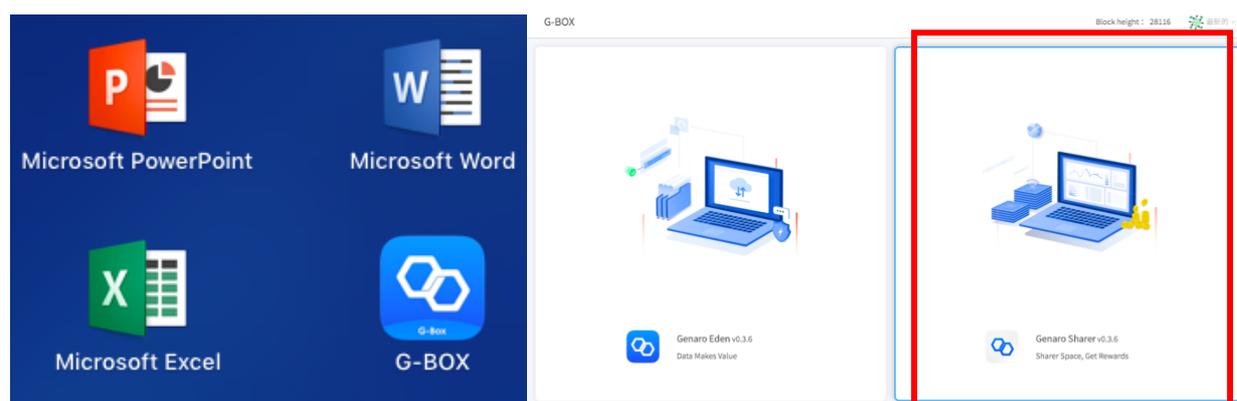
After downloading and installing the G-BOX client, open the Genaro Sharer client. (Please look for the only official download address of Genaro)

Mac version client download address

<https://genaro-release.oss-cn-hangzhou.aliyuncs.com/gbox-1.0.0.dmg>

Windows version client download address

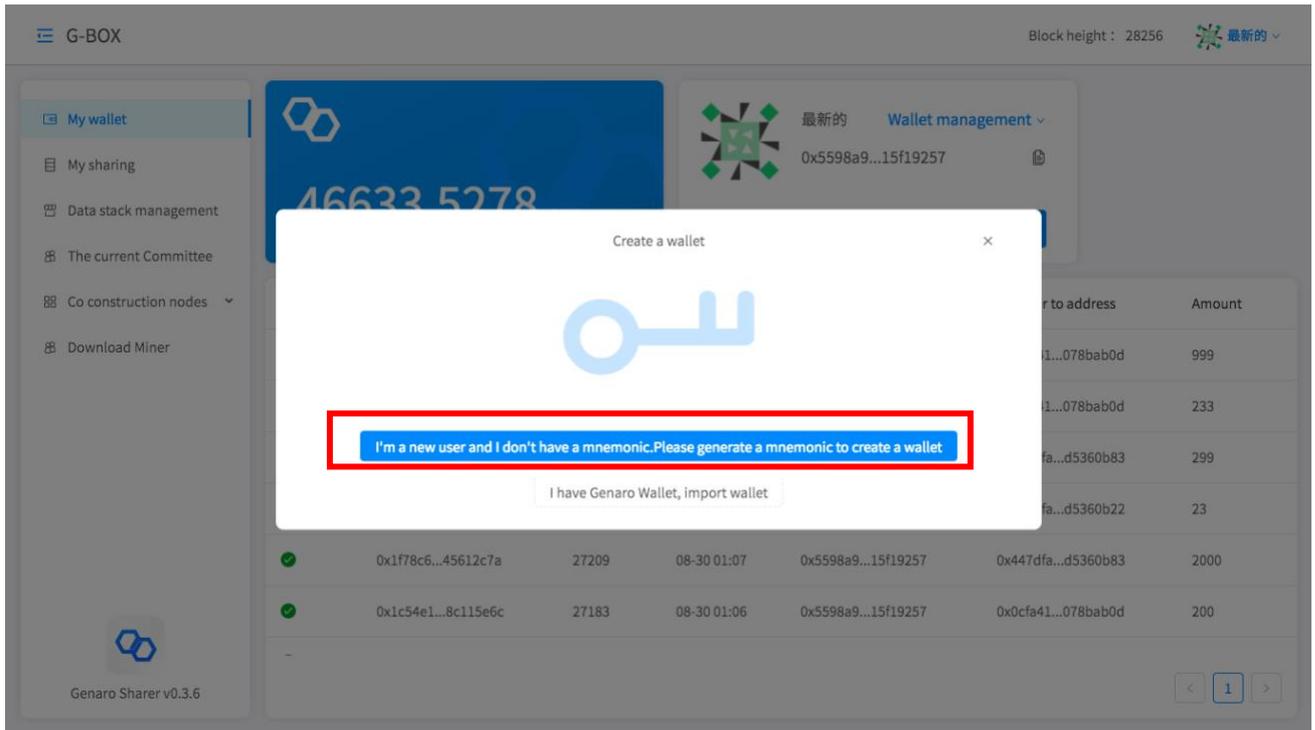
<https://genaro-release.oss-cn-hangzhou.aliyuncs.com/gbox-1.0.0.exe>



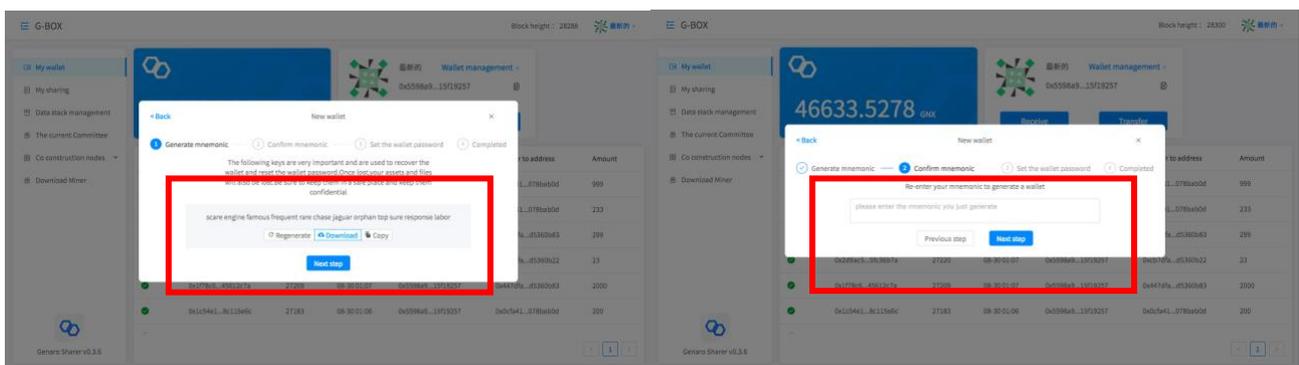
2 Create/import wallet

2.1 new users create wallets

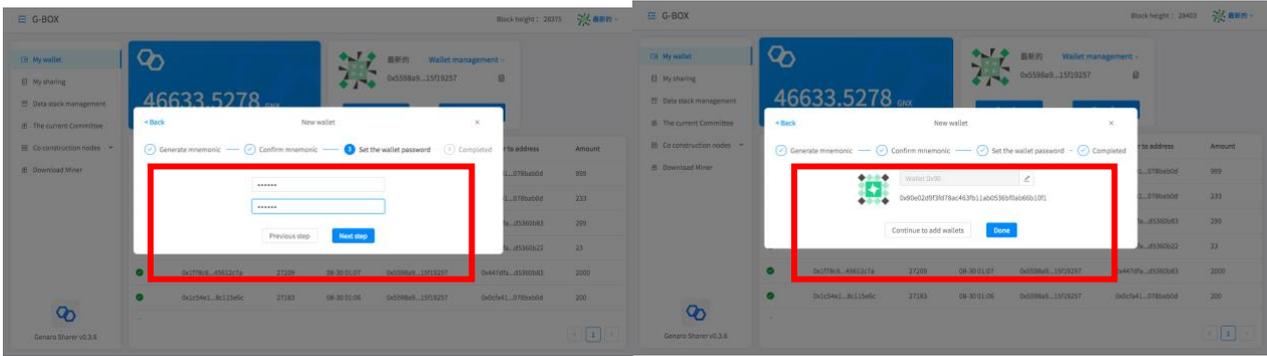
Generate a new key (mnemonic) directly, generate a wallet



The **first step** is to generate a 12-word mnemonic and keep it safe; the **second step** is to confirm the backup mnemonic, then enter the 12-word mnemonic again, and click “Confirm” to generate the wallet successfully;



The **third step** is to set and remember the wallet password; the **fourth step** is to confirm the wallet information and generate the wallet.



Important Note:

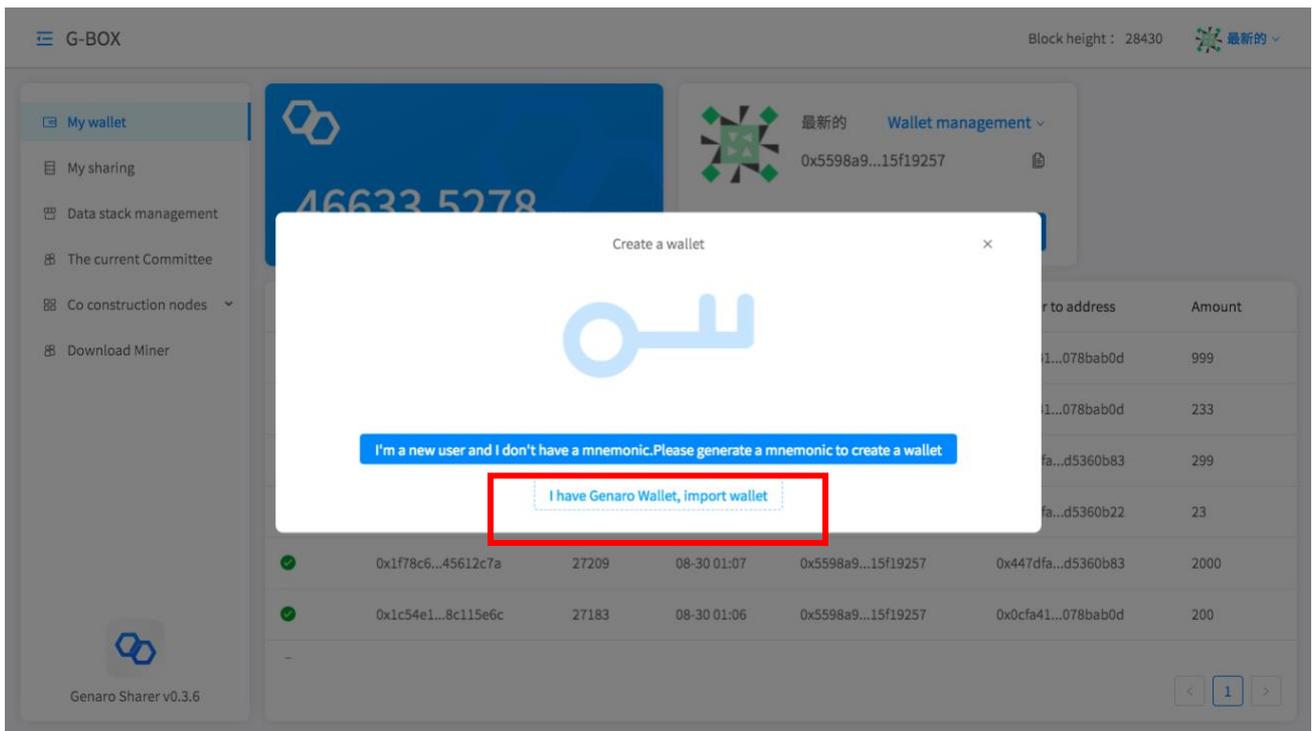
As a decentralized application, Genaro does not store your key (mnemonic) in the Genaro program or on any server and will not be retrieved once lost. Please remember and back up the key (mnemonic) of the first login. Your digital assets, stored files are classified as their wallet directory. If the key is lost, the operations, storage files and wallet assets under this key will be lost.

When backing up the key (mnemonic), be sure to pay attention to 2 points:

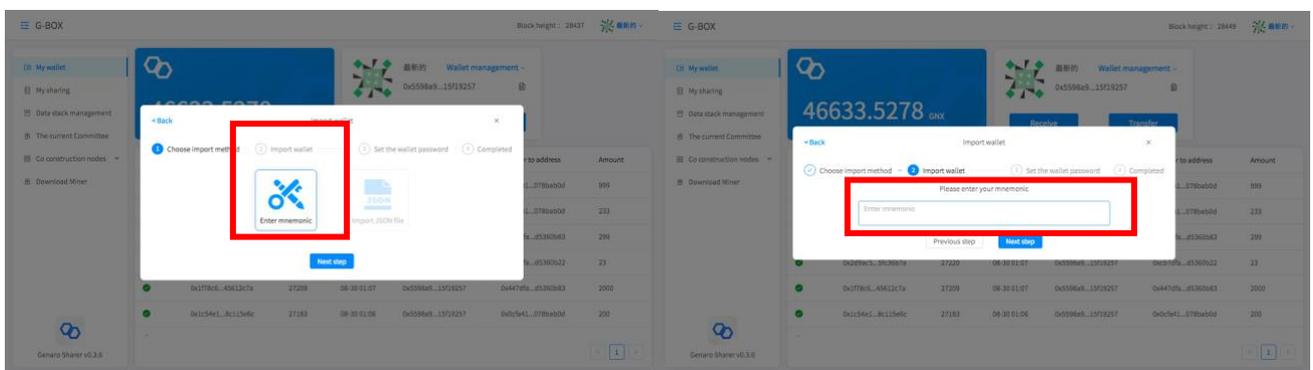
- a. Your stake: write it down on paper instead of saving in a networked device.
- b. Verify if the backup mnemonic is correct multiple times. Keep the backup mnemonics in a safe place and do anti-theft and anti-lost measures

2.2 Import Original Wallet

If you already have a Genaro Wallet account, you can import the wallet directly by importing the key (mnemonic) or the wallet's JSON file.



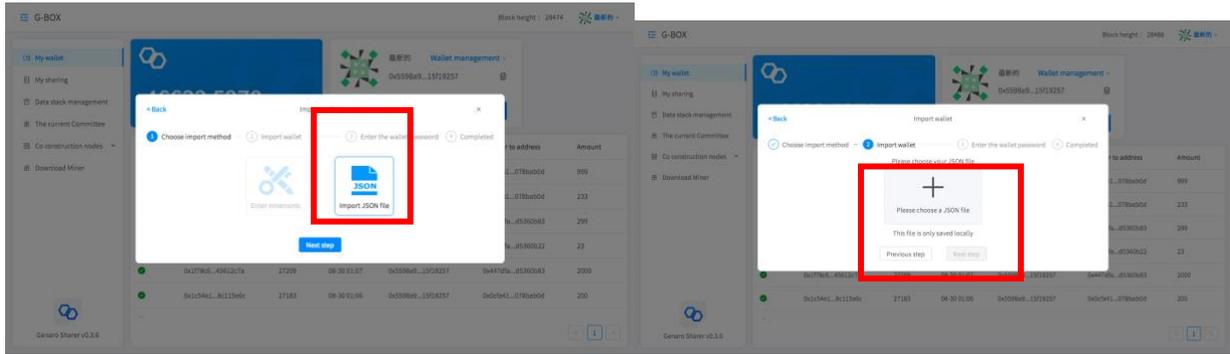
The first step is to choose the way to import the wallet, import it by key (12 mnemonic);
The second step is to enter your mnemonic;



The third step sets and remembers the wallet password; **the fourth step** confirms the wallet address information and imports the wallet successfully.

Or import the wallet by importing the JSON file.

The first step is to click the import wallet JSON file button; the second step is to upload your JSON file.

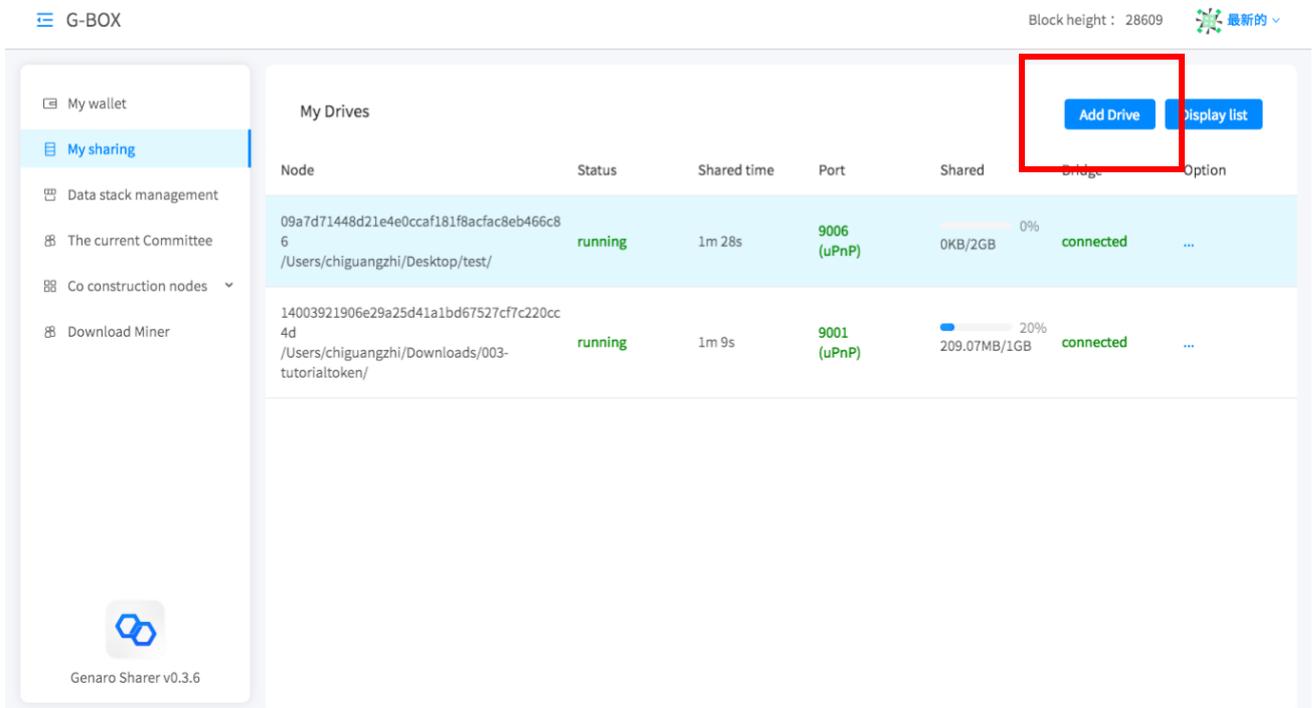


The **third step** is to enter your wallet password; the **fourth step** is to confirm the information and import the wallet successfully.

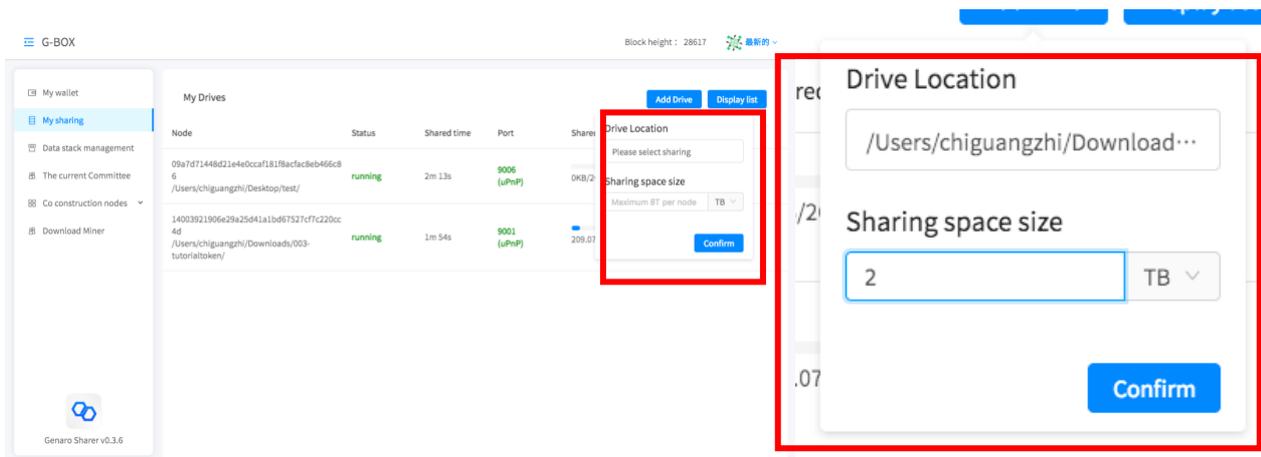
Important NOTE: Please pay attention you can reset the password if you import the wallet with a key (mnemonic). However, if you import the wallet through the JSON file, you need to enter the original password of the JSON file wallet to import.

3. Share hard disk space / settings profile

3.1 Share my hard drive space. Go to my sharing interface. Click to add a sharing configuration.



Select the location and capacity of the hard drive you want to share. When the setup is complete, click “OK.”



After the sharing is successful, you can view it in the “My Sharing” management list. If the hard disk sharing is successful, the port displays a green status, and the failure displays a black or red status.

- ID is the unique ID number for this drive;
- Location is the location of the shared hard drive space on the personal hard drive;
- Shared is the total shared space and used space;
- Uptime is the online time for sharing the hard disk. After the restart, this time will be recalculated.;
- “Peers” is the number of peer-to-peer sharing of hard disks. If “peers” is 0, then the sharing is unsuccessful.;
- Allocs is the number of tasks received by the hard disk; -
- Bridges means sharing the current connection status of the hard disk. If it is displayed as “Disconnected”, it may be because your network is unstable.;

3.3 Modify node configuration

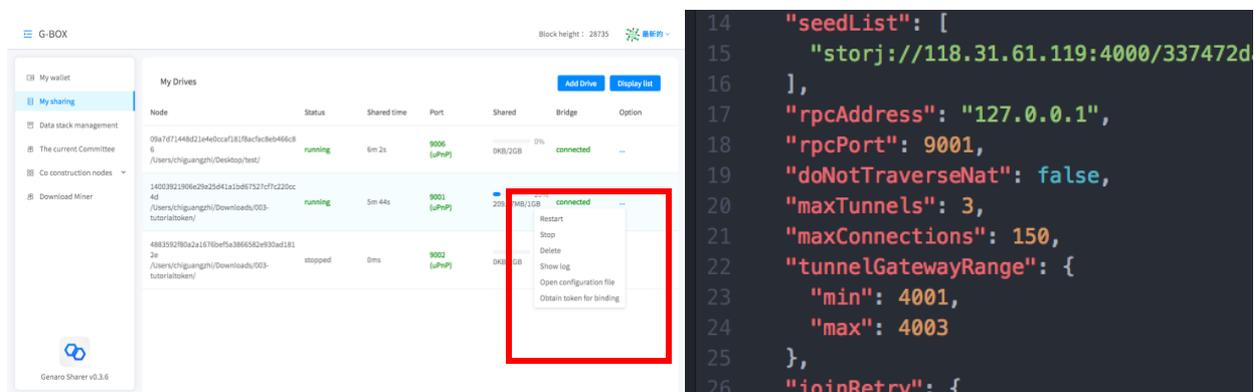
If your node "port" does not display green, it means that the shared node is not working properly. It may be necessary to modify the configuration node's configuration file to modify the node parameters.

Find the menu bar on the right side of the node “• • •”, and click “Open Profile” to modify

various sharing properties.

After sharing the node, a configuration file is generated, and the shared attributes are set in this file. There are a few items that need to be customized:

1. The value after “rpcAddress” is changed from 127.0.0.1 to the public IP address of the machine.
2. The value of “doNotTraverseNat” is changed to “true” (if there is a public network ip)
3. The value of “storagePath” is changed to the shared path
4. The value of “storageAllocation” is changed to the size of the shared space. The default is 20G.



The image shows a screenshot of the Genaro Share interface. On the left, there is a sidebar with navigation options like 'My wallet', 'My sharing', 'Data stack management', etc. The main area displays a table titled 'My Drives' with columns for Node, Status, Shared time, Port, Shared, Bridge, and Option. A red box highlights the 'Option' column for a specific node, showing a dropdown menu with options: Restart, Stop, Delete, Show log, Open configuration file, and Obtain token for binding. To the right of the table, a code snippet shows a JSON configuration file with the following content:

```
14 "seedList": [  
15   "storj://118.31.61.119:4000/337472d  
16 ],  
17 "rpcAddress": "127.0.0.1",  
18 "rpcPort": 9001,  
19 "doNotTraverseNat": false,  
20 "maxTunnels": 3,  
21 "maxConnections": 150,  
22 "tunnelGatewayRange": {  
23   "min": 4001,  
24   "max": 4003  
25 },  
26 "ipRetry": {
```

3.2 View sharing log

In the menu bar on the right side of the node, click “Show Log” to open the log directory. You can see the sharing status by looking at the log.

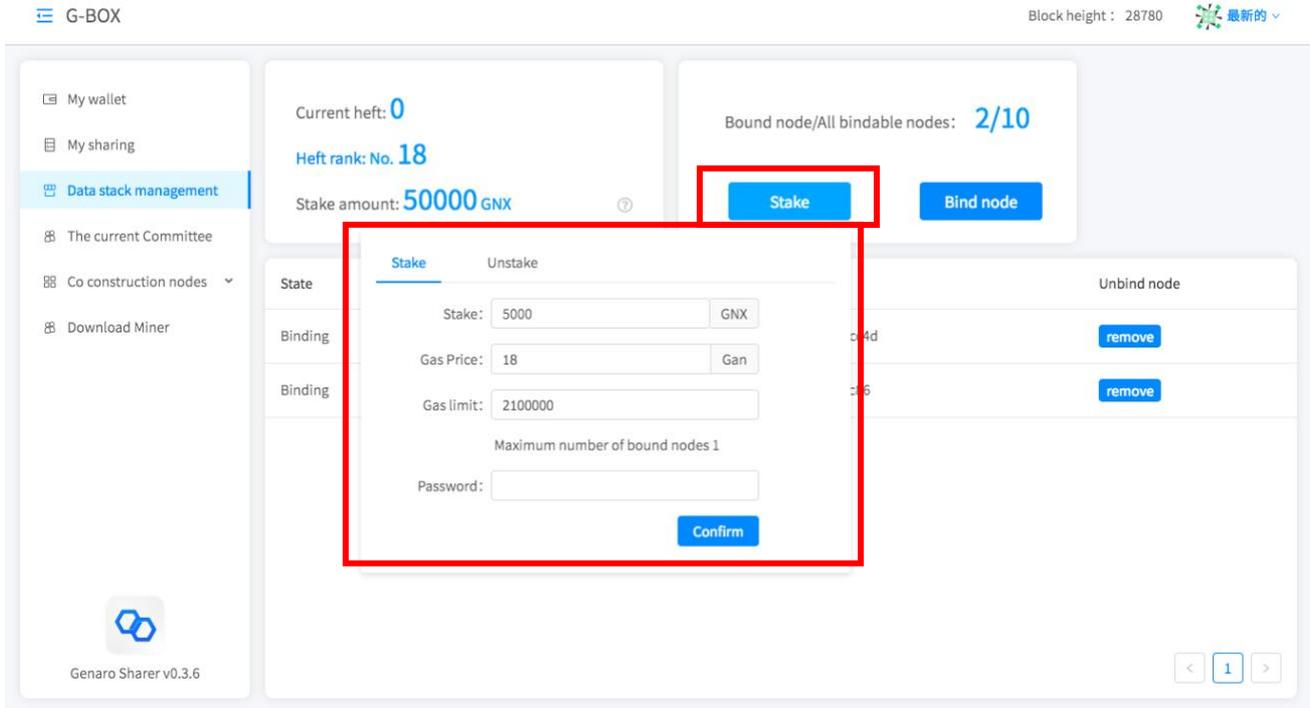
The screenshot displays the 'My Drives' section of the G-BOX interface. On the left, a sidebar contains navigation options: 'My wallet', 'My sharing' (selected), 'Data stack management', 'The current Committee', 'Co construction nodes', and 'Download Miner'. The main area shows a table of drives with columns for Node, Status, Shared time, Port, Shared, Bridge, and Option. Three drives are listed: two are 'running' and one is 'stopped'. A context menu is open over the 'stopped' drive, with options: Restart, Stop, Delete, Show log (highlighted), Open configuration file, and Obtain token for binding. The 'Show log' option is enclosed in a red box. At the bottom left, the 'Genaro Sharer v0.3.6' logo is visible.

Node	Status	Shared time	Port	Shared	Bridge	Option
09a7d71448d21e4e0ccaf181f8acfac8eb466c86 /Users/chiguangzhi/Desktop/test/	running	7m 7s	9006 (uPnP)	0KB/2GB	0% connected	...
14003921906e29a25d41a1bd67527cf7c220cc4d /Users/chiguangzhi/Downloads/003-tutorialtoken/	running	6m 49s	9001 (uPnP)	209.07MB/1GB	20% connected	...
4883592f80a2a1676bef5a3866582e930ad1812e /Users/chiguangzhi/Downloads/003-tutorialtoken/	stopped	0ms	9002 (uPnP)	0KB/2GB		...

4 Stake, Bind Node ID

4.1 Stake

Click "Stake" on the "Data Stack Management" interface. Filling in the stake amount will automatically display the total number of shared nodes that you can be bound to. After confirming the information, enter the account password and click to confirm, the stake is successful.



After the stake is successful, your stake amount and the total number of bindable nodes will be displayed in the information bar.

Note:

a The minimum amount of stake is 5000GNX, with no upper limit. Every 5000GNX can be bound to a node.

b The assets staked during the stake cannot be transferred. If necessary, you can cancel the stake by applying for an explanation. The application will take effect approximately 3 to 5 days later. After the stake is released, the stake asset will be automatically unlocked and the right to use the asset will be restored. After the application is issued, the node bound to the wallet address will no longer receive revenue.

c The amount of the stake amount will affect your stake heft ranking, which will affect your total heft ranking. For the 101 committee members, the more the number of stakes, the more rewards are awarded.

4.2 Bind the node ID to get the shared revenue

If the node you want to bind is the node that is shared locally:

Click the "Bind Node" button, select the node to be bound, enter the current wallet password,

and confirm the binding relationship.

Block height : 28791 最新的

My wallet
My sharing
Data stack management
The current Committee
Co construction nodes
Download Miner

Current heft: 0
Heft rank: No. 18
Stake amount: 50000 GNX

Bound node/All bindable nodes:
09a7d71448d21e4e0ccaf181f8acfac8eb466c86
14003921906e29a25d41a1bd67527cf7c220cc4d
4883592f80a2a1676bef5a3866582e930ad1812e
Node is not in the list. Input token to bind.
nodelid:
Gas Price: 18 Gas
Gas limit: 2100000
Password:
Confirm

State	Node ID
Binding	14003921906e29a25d41a1bd67527cf7c220cc4d
Binding	09a7d71448d21e4e0ccaf181f8acfac8eb466c86

Genaro Sharer v0.3.6

If the node you want to bind is a node that is shared offsite:

Block height : 28802 最新的

My wallet
My sharing
Data stack management
The current Committee
Co construction nodes
Download Miner

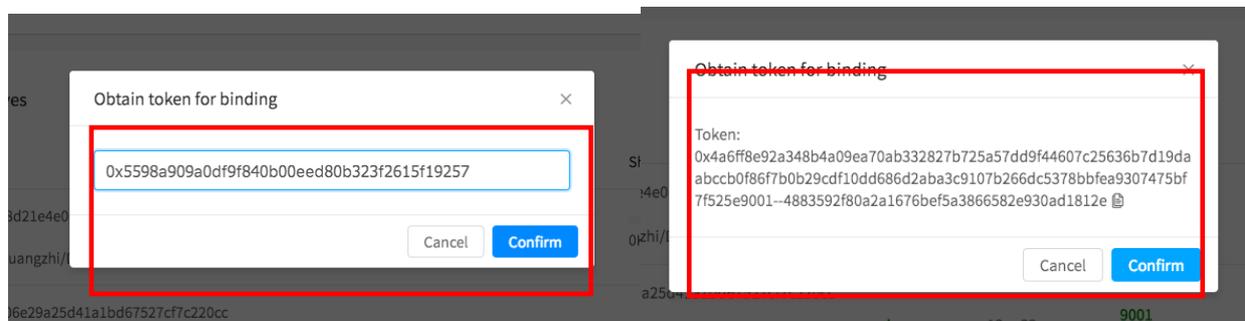
My Drives
Add Drive Display list

Node	Status	Shared time	Port	Shared	Bridge	Option
09a7d71448d21e4e0ccaf181f8acfac8eb466c86 /Users/chiguangzhi/Desktop/test/	running	10m 51s	9006 (uPnP)	0KB/2GB	connected	...
14003921906e29a25d41a1bd67527cf7c220cc4d /Users/chiguangzhi/Downloads/003-tutorialtoken/	running	10m 33s	9001 (uPnP)	209.07MB	connected	...
4883592f80a2a1676bef5a3866582e930ad1812e /Users/chiguangzhi/Downloads/003-tutorialtoken/	running	5s	9002 (uPnP)	0KB/2GB	disconnected	...

Genaro Sharer v0.3.6

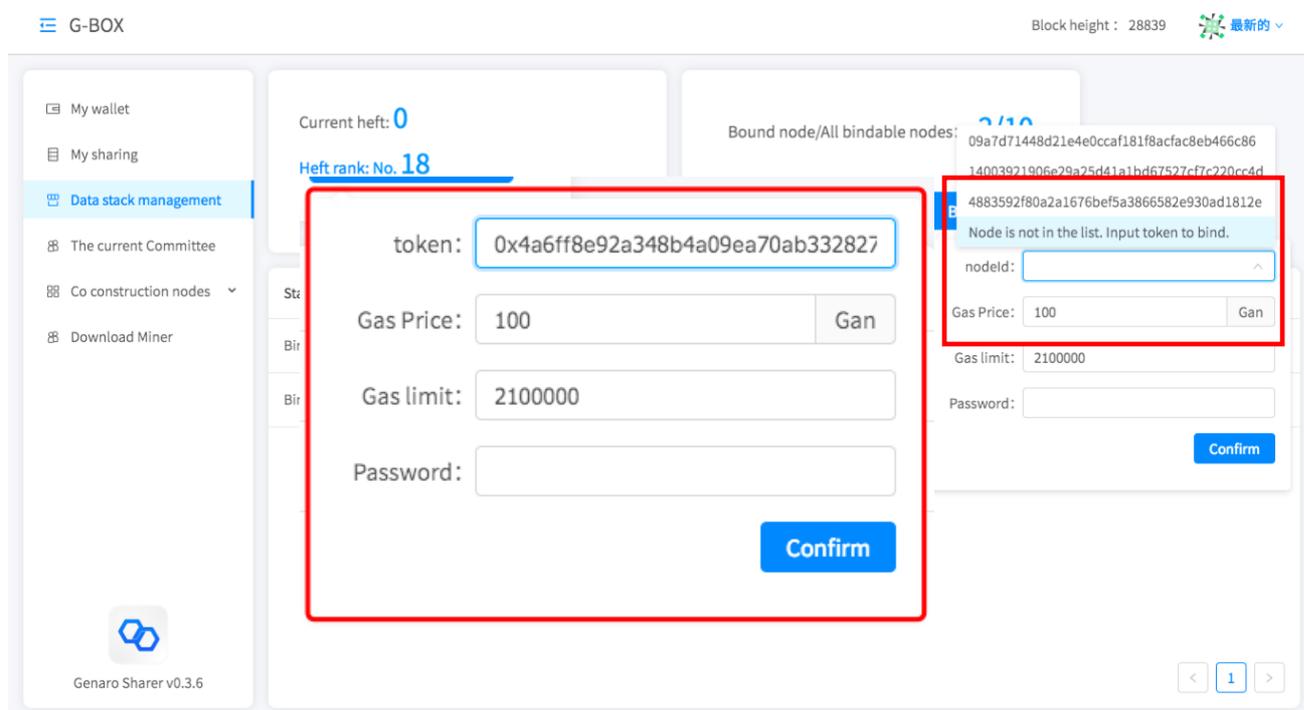
1st Step: Get the "binding token" of the node.

In the "My Sharing" interface, select the node you want to bind, click the drop-down menu on the right, and click "Get Binding Token". Enter the "wallet address" you want to bind in the input box to get and copy the binding token.



2nd Step: Bind node token

On the Data Stack Management page, click on the Bind node. Select "Node ID is not in the list, enter the node token copied in the previous step, and bind."



After the binding node ID is successful, you can view all the sharing status of the data stack of

the current wallet address on the data stack management interface, including the total heft ranking of the data stack, the stake amount, the number of bound nodes, and the total number of bindable nodes.

Note:

a shared node cannot be bound repeatedly.

b After the binding is successful, the storage revenue and storage heft of the shared space of the node are obtained. The running status of the node will directly affect the total heft ranking and revenue of the current data stack.

c If the node is not running, you can replace the wallet that needs to be bound by “unbinding”.

5 View This Committee

The Current Committee is a display page

View current committee members on the "This Committee" screen. The committee's change time is calculated based on the block heft. When the heft of the next session of the committee is reached, it is the time when the next committee is established. The current block heft can be viewed in the upper right corner.

The current Committee Update Block: 28800 Next Update Block of Committee: 36000	
rank	address
1	0x5d14313c94f1b26d23f4ce3a49a2e136a88a584b
2	0xd248d954f6f87756dde05fba72b0a20f2517ae1c
3	0x60bc21f01ae990e6aeea662c282c6683bf22e099
4	0x174d246ee47ee21b4fd785b91406186e877912f
5	0xf3977112b574acfab37955bdad97472abda0516b
6	0x9b4cde55a89c8be2059948ba57c06cae084f2411
7	0xc9b717b4e39ea872792af7ae4c904ed14a081125
8	0xaa77e09291da907652f3791a40a3aaed62c22d6a
9	0xdd223f984364ab18c8b4c25cfdcd04636946cc7f
10	0x7fdead78e814124039abb62c5017ced1a031b53b

Note:

To get into the members of this Committee, in addition to the storage revenue incentives, you need to run the Miner mining program to maintain the Genaro Network operation in order to obtain the benefits of block packaging revenue and network transaction fees. You can download and run the miner program on the "Download Miner Mining" page.

6 Co-build Node

Users can join the committee to obtain higher heft rankings by joining the nodes with other nodes, and enter the committee to get the commissions. Currently, each team supports up to ten members to apply for membership.

6.1 Apply to join other nodes and team up to get a higher heft ranking

The "Join Co-Building" page is a dynamic intent teaming page.

Users can build their own nodes to participate in the ranking, or you can select the big nodes you want to join, click "Apply to join", and join the other nodes to participate in the heft

ranking.

After the other party agrees, the willingness to team up of both parties will take effect. The team's relationship can be viewed on the "Join the Co-Build" page and click on "View Team Members". The team status at this time is the willing team state, and the team has not yet taken effect. Applicants and team owners can also unilaterally choose to disarm the team. By the time the "Second Committee Update Block" arrives (that is, when the next committee list is announced), if the intention of the two teams still exists, the team relationship will take effect.

The screenshot shows the G-BOX interface. On the left is a sidebar with navigation options: My wallet, My sharing, Data stack management, The current Committee, Co construction nodes, Current Ranks (highlighted), Join Construction, and Download Miner. The main content area is titled "My team" and includes the following information:

- Next Update Block of Committee: 36000
- Rank: 1
- Team Name: 0x5d14
- Sentinel: 8,222
- GNX Stake: 50000
- Space: 442.23MB
- Team number: 0 / 10

A "Members" button is visible in the top right of the team information section. Below this is a "Node List" table with a search bar for "address". The table contains the following data:

rank	address	stake	space	sentinel	member
1	0x5d1431...a88a584b	50000	442.23MB	8,222	0 / 10
2	0xd248d9...2517ae1c	5091	0.00B	672	0 / 10
3	0x174d24...8777912f	5081	0.00B	656	0 / 10
4	0x60bc21...bf22e099	5081	0.00B	656	0 / 10
5	0xf39771...bda0516b	5071	0.00B	641	0 / 10
6	0x9b4cde...084f2411	5061	0.00B	625	0 / 10
7	0xc9b717...4a081125	5051	0.00B	610	0 / 10

Note:

- a) The application information is refreshed every hour. If you have not obtained the consent of the other party for one hour, you need to apply again.
- b) Applicants can apply for multiple nodes at the same time. However, it's up to the information on the willingness of the final consent. For example: I applied for two nodes A and B. The node A agreed to my application. I established a willingness to establish a team relationship with A. At this time, another node B also agreed to my application, then I am with A's willingness to team up is automatically lifted, and my willingness to team up with

B will take effect. Before the establishment of the next committee, I can still unilaterally withdraw from the team and apply for other nodes. If I do not withdraw, and the application node does not dismiss the team, then the team relationship with B will be formally established until the next committee is established.

- c) When the next committee is established, after my team relationship with B is formally established, I will no longer obtain separate heft values and heft rankings, and will contribute my own heft to the applied node B to obtain the ranking of the joint nodes. Click on "View Team Members" to view information about current intent team members and their team status information.
- d) If I and B's co-built node hefts are ranked in the next committee, then when the next committee comes into effect, I gain the storage network revenue, and at the same time, I also get the B-mining block. My block reward = my stake heft / committee stake total heft
✘ each committee will have block generation award (for specific income details please see below).

6.2 Create a node with the applicant and get a higher heft ranking

For the nodes that haven't teamed up, at the "application record" button, they can receive the intentional team application information prompts from other nodes. Click "Apply Record" to view the current applicant information, you can choose "Agree" or ignore.

G-BOX Block height : 39676 

- My wallet
- My sharing
- Data stack management
- The current Committee
- Co construction nodes ^
- Current Ranks
- Join Construction
- Download Miner



Genaro Sharer v0.3.6

My team Next Update Block of Committee: 43200

Rank: 1 Team Name: 0x5d14 Sentinel: 10,262 Members

GNX Stake: 50000 Space: 442.23MB Team number: 0 / 10 Apply record

address	stake	space	sentinel	agree
0x0cfa41...078bab0d	5000	0.00B	0	<input type="button" value="agree"/>
0x5598a9...15f19257	50000	0.00B	0	<input type="button" value="agree"/>

Node List address

rank	address	stake	space	sentinel	member	join
11	0xe25de0...62597667	5011	0.00B	392	0 / 10	<input type="button" value="join"/>
12	0xebb97a...ad58f3e8	5001	0.00B	384	0 / 10	<input type="button" value="join"/>
13	0x743e45...60c0f7ff	20000	0.00B	0	2 / 10	<input type="button" value="join"/>
300+	0x0e720c...1859c677	5000	0.00B	0	0 / 10	<input type="button" value="join"/>

After agreeing, both parties will reach an intention to team up and click on “View Team Members” to view the information of the intent team members. The team’s willingness can also be unilaterally lifted. If the team intention remains unchanged until the next committee comes into effect, the team relationship will take effect immediately.

Note:

- 1 All nodes have the right to apply to join other nodes and the right to apply before they are teamed up. After the node agrees to the team application of other nodes, it can no longer join other nodes.
- 2 All team members' application team information will be cancelled automatically if they do not agree within one hour.
- 3 Nodes cannot actively invite other nodes to join themselves. They can only wait for invitation information from other nodes, or join other nodes to form a team.
- 4 After all the team's wishes are reached; they will take effect at the time of the establishment of the next committee.

6.3 View Current Ranking

The Current Ranking page is a live display page.

On the current ranking page, you can view the real-time ranking of nodes across the network.

Click "View Team Members" to see detailed status information for your location.

Personal status: My team shows my current real-time status information.

Team status: My team shows current status information for me and my team. Click

"View team members" to see information about other members.

Note: Team entrants no longer have their own Sentinel (heft value), i.e. Sentinel is 0. The current heft of the joined person is the sum of the team's Sentinel (heft value).

The screenshot displays the G-BOX interface. On the left is a sidebar menu with options: My wallet, My sharing, Data stack management, The current Committee, Co construction nodes, Current Ranks (highlighted), Join Construction, and Download Miner. At the bottom of the sidebar is the Genaro Sharer v0.3.6 logo. The main content area is titled 'My team' and shows 'Next Update Block of Committee: 43200'. It lists team statistics: Rank: 14, Team Name: 0x1c04, Sentinel: 0, GNX Stake: 30000, Space: 0.00B, and Team number: 0 / 10. A 'Members' button is visible. Below this is a 'Node List' table with a search bar for 'address'. The table has columns for rank, address, stake, space, sentinel, and member.

rank	address	stake	space	sentinel	member
1	0x5d1431...a88a584b	50000	442.23MB	10,283	0 / 10
2	0xd248d9...2517ae1c	5091	0.00B	453	0 / 10
3	0x174d24...8777912f	5081	0.00B	445	0 / 10
4	0x60bc21...bf22e099	5081	0.00B	445	0 / 10
5	0xf39771...bda0516b	5071	0.00B	437	0 / 10
6	0x9b4cde...084f2411	5061	0.00B	429	0 / 10
7	0xc9b717...4a081125	5051	0.00B	421	0 / 10

At the end of the term of the current committee, the current top 101 individuals or teams, and the node where sentinel is not 0, will become a member of the next committee. You can run the miner program to maintain the Genaro Network and obtain the rewards for mining and trading gas rewards. The team members are ranked in the form of a team. When the members of the committee run miner to generate block, their team members can also get a corresponding block generation reward.

7 Asset Management

On the wallet page, you can view the account balance in your current wallet in real time. You can also check your balance by switching your wallet in the top right corner.

The screenshot shows the G-BOX wallet interface. At the top left, it says "G-BOX". At the top right, it shows "Block height : 37909" and a refresh icon with the text "最新的". The main area displays a balance of "46699.0874 GNX". Below the balance, there are "Receive" and "Transfer" buttons. A "Wallet management" dropdown menu is visible, showing the current wallet address "0x5598a9...15f19257". Below this, there is a table of transactions:

All	Hash	Block height	Time	Transfer from address	Transfer to address	Amount
✓	0x6b29a3...d8ae78c3	27609	08-30 01:25	0x5598a9...15f19257	0x0cfa41...078bab0d	999
✓	0x6bb9a4...18ca44fd	27605	08-30 01:24	0x5598a9...15f19257	0x0cfa41...078bab0d	233
✗	0x046d92...00185935	-	08-30 01:08	0x5598a9...15f19257	0xcb7dfa...d5360b83	299
✓	0x2d9ac5...5fc36b7a	27220	08-30 01:07	0x5598a9...15f19257	0xcb7dfa...d5360b22	23
✓	0x1f78c6...45612c7a	27209	08-30 01:07	0x5598a9...15f19257	0x447dfa...d5360b83	2000
✓	0x1c54e1...8c115e6c	27183	08-30 01:06	0x5598a9...15f19257	0x0cfa41...078bab0d	200

At the bottom left, there is a "Genaro Sharer v0.3.6" logo.

7.1 Collect and Transfer

Click "Receipt" to view the current account's payment address, you can scan the code to recharge or copy this wallet address.

Click "Transfer" to transfer assets to other user's wallet address. Enter the payment address, amount, Gas Price and Gas Limit. Click Confirm and enter the wallet payment password to confirm the transfer.

This screenshot shows the G-BOX wallet interface with the "Transfer" modal open. The modal contains the following fields:

- Transfer to address:
- Amount:
- Gas Price:
- Gas Limit:
- Password:
- Confirm button

The background shows the same wallet interface as the previous screenshot, but with the "Transfer" button highlighted in red.

IMPORTANT: You need to understand that blockchain transfers are irrevocable and cannot be recalled. The transfer is between individuals, and the financial disputes caused by operational errors are not connected to Genaro.

7.2 Transfer setting gas value

On Genaro, sending a token and calling a smart contract requires paying the miner's calculation fee, calculated in gas. The gas limit is the maximum you are willing to spend on a transaction amount. You can speed up or slow down your transfer by adjusting the gas price. You can set it yourself according to your own situation. If you are not in a hurry, you can set the system to prompt the safe gas price:

1GNX = 10^9 Gan

7.3 View transfer transaction history

After the transfer transaction instruction is initiated, the current transaction information can be viewed in the transaction history. And display the current transaction status in real time. You can also click on the hash value of the transaction to view a more detailed transaction history at: <https://genaro.networkwork/blockchain browser>.

Processing:

All ▾	Hash	Block height	Time	Transfer from address	Transfer to address	Amount
🕒	0x6b29a3...d8ae78c3	-	08-30 01:25	0x5598a9...15f19257	0xcfa41...078bab0d	999
✅	0x6bb9a4...18ca44fd	27605	08-30 01:24	0x5598a9...15f19257	0xcfa41...078bab0d	233

Transaction failed:

All ▾	Hash	Block height	Time	Transfer from address	Transfer to address	Amount
❌	0x046d92...00185935	-	08-30 01:08	0x5598a9...15f19257	0xcb7dfa...d5360b83	299
✅	0x2d9ac5...5fc36b7a	27220	08-30 01:07	0x5598a9...15f19257	0xcb7dfa...d5360b22	23

8 Wallet Management

You can modify the wallet name, delete the wallet, change the wallet payment password, and export to JSON file operation.

The screenshot shows the Genaro wallet management interface. At the top, the balance is 46699.0874 GNX. A 'Wallet management' dropdown menu is open, showing options: Change name, Change password, Export wallet to JSON file, and Delete wallet. Below the menu is a table of transactions.

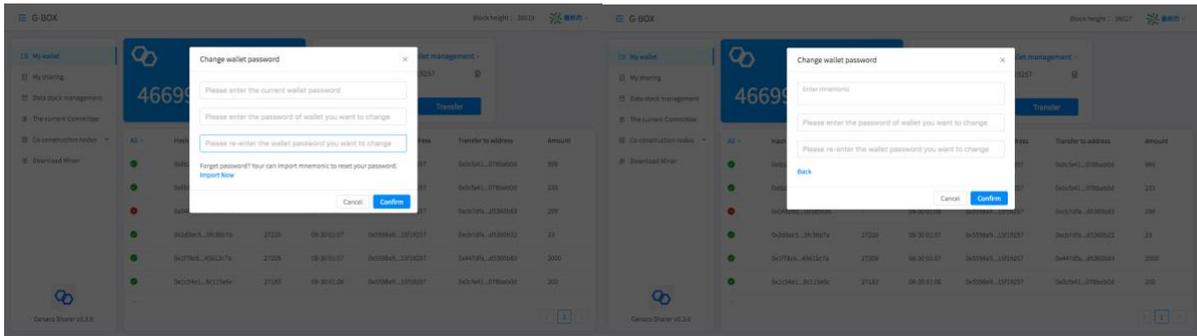
All	Hash	Block height	Time	Transfer from address	Transfer to address	Amount
✓	0x6b29a3...d8ae78c3	27609	08-30 01:25	0x5598a9...15f19257	0x0cfa41...078bab0d	999
✓	0x6bb9a4...18ca44fd	27605	08-30 01:24	0x5598a9...15f19257	0x0cfa41...078bab0d	233
✗	0x046d92...00185935	-	08-30 01:08	0x5598a9...15f19257	0xcb7dfa...d5360b83	299
✓	0x2d9ac5...5fc36b7a	27220	08-30 01:07	0x5598a9...15f19257	0xcb7dfa...d5360b22	23
✓	0x1f78c6...45612c7a	27209	08-30 01:07	0x5598a9...15f19257	0x447dfa...d5360b83	2000
✓	0x1c54e1...8c115e6c	27183	08-30 01:06	0x5598a9...15f19257	0x0cfa41...078bab0d	200

8.1 Back up My Wallet

On the wallet management page, you can back up your wallet by exporting the wallet JSON format. The backup wallet requires the password of the current wallet.

8.2 Modify my password, reset my password

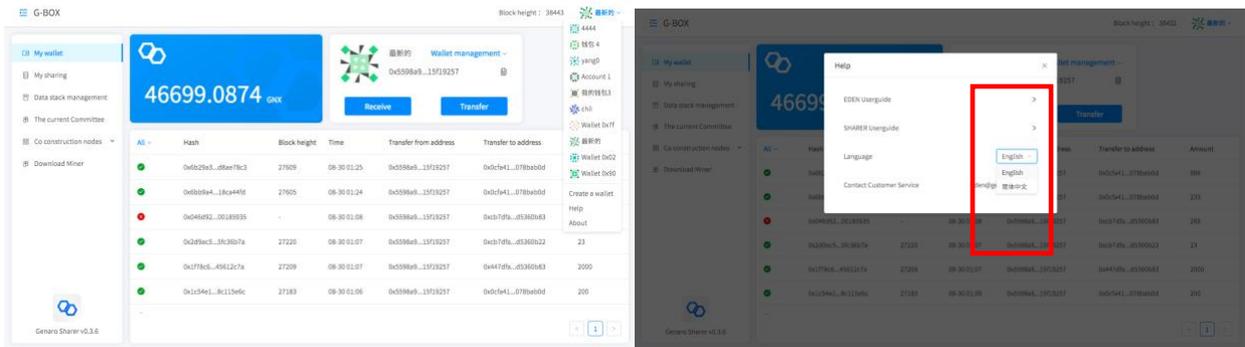
In the wallet management area, I can change my wallet password and retrieve my password. Changing your password requires knowing your current wallet password. If you forget your wallet password, you can reset your wallet password by importing your wallet mnemonic in the "change password". If you forget the mnemonic, you will not be able to retrieve it. So be sure to keep your mnemonic.



9 Others

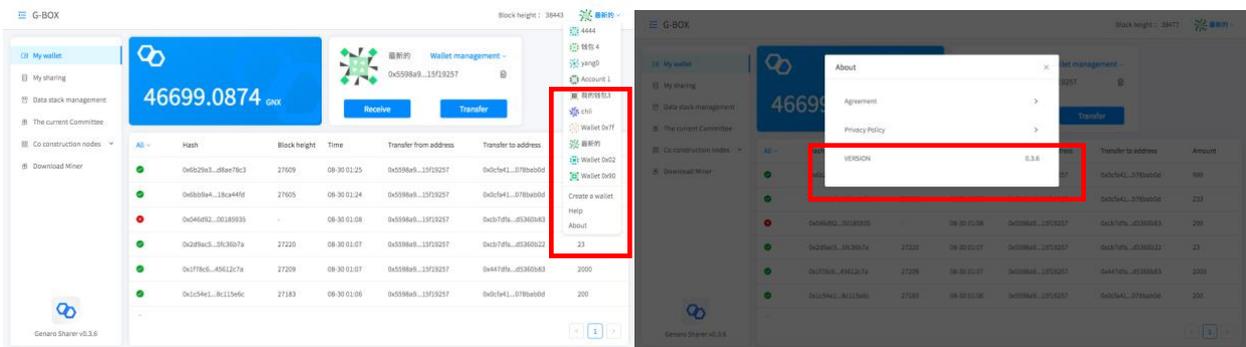
9.1 Language Setting

You can choose to switch languages by clicking "Help" in the upper right corner.



9.2 Update to the Latest Version

In the upper right menu bar, click "About" to view the current version and update to the latest version.



FAQ

1 When can I start to share revenue by sharing hard drive space?

The Sentinel Contest starts mid-September. All Genaro storage space sharers can participate. The competition will be held on the Genaro Testnet, and the top 31 players in the competition will receive the GNX bonus.

(The competition rules can be found in the relevant documents related to the sentinel contest <https://genaro.networkwork>)

After the Mainnet is online, all sharers can share the storage space and get the corresponding GNX storage network revenue reward. And enter the committee's nodes; you can get the Genaro Network block generation rewards and transaction fee rewards.

2 What are the benefits of sharing nodes? How to calculate? (Currently in the Testnet version, there may be adjustment after the test)

- During the Testnet, at the end of the sentinel contest, the top 31 nodes (or co-built nodes) with hefts shared 500,000 GNX bonus.
- After the Mainnet is online, the revenues obtained by the data stack (nodes) are divided into storage network revenue and mining (on-chain) revenue.
- Storage network revenue is determined by the node's contribution to the storage network. The more data the node stores, the more stable the online time is, the greater the total storage heft ratio of the stored storage hefts to the entire network, the more the storage network benefits.
- Storage Revenue (Year)=Storage heft/Whole Network Storage heft ✖ The coin pool annual storage rewards.
- Among them, the annual coin pool storage rewards = total tokens ✖ 25% ✖ 7% (proportion of surplus coins per year) ✖ 50% (current storage bonus coefficient)
- All users sharing the effective space and storing the real data nodes will get the storage heft and get the storage network reward.
- The mining (on-chain) income is determined by the ratio of the stake assets of the committee nodes, including full network transaction fee reward + block package reward.

The more assets stake, the higher the heft of the stake, the greater the ratio of the stake hefts of

the node to the total heft of the stake of the committee. When the block is released, the more mining (on-chain) gains are obtained.

Mining revenue (year) = stake heft / committee total stake heft ✖ annual pool mining reward

Among them, the annual mining reward of the coin pool = total token ✖ 25% ✖ 7% (proportion of surplus coins per year) ✖ 50% (current mining reward coefficient)

The mining revenue can only be obtained if the total heft is ranked in the committee. During the Sentinel contest, the top 31 nodes will enter the first committee directly after the Mainnet is online. The nodes ranked 31 to 101 will judge whether to enter the first committee based on the test results of the Testnet.

Note: The ratio of the income coefficient after the Mainnet is online may be adjusted according to the test results, and the list of the first committee will be announced after the end of the Sentinel Contest.

3 How do I share hard disk space by using sharer and become Genaro's data stack node to get storage revenue?

There are FIVE steps to becoming a data stack and gaining storage network revenue:

- 1 Ensure that the computer is connected to the public network IP and download the sharer program.
- 2 Create a shared configuration and share hard drive space.
- 3 Set the node's configuration file to ensure that the node is in normal operation.
- 4 Stake on GNX
- 5 Bind the shared node. Get the income.

4 How do I get the mining revenue?

To share the hard drive to obtain the income of the Genaro public chain network requires two conditions:

- 1 Become a data stack node, share hard disk space to gain storage network revenue, and become a member of the committee.
- 2 Download the miner program to synchronize the entire network block. Download address and

instructions for use: <https://genaro.networkwork>

5 What is the coin pool? Will the total amount change?

The coin pool is the token incentive mechanism for the entire Genaro Network's dual-strata smart data ecosystem. It is also an important part of Genaro's sharing economic ecosystem. The initial assets of the coin pool account for 25% of the total Genaro eco-token. 7% of the remaining coins are distributed annually for the Genaro storage network and the public chain ecological construction. At the same time, the user's storage costs, downstream bandwidth usage fees, gas costs for the entire network transaction, and future Genaro based DApp user spending will once again return to the pool to form a healthy economic ecosystem.

6 As a sharing node of Genaro, why do you want to download two programs when you want to get mining revenue?

The Genaro Network is a distributed, sharing cloud that combines a dual-strata smart data ecosystem of storage and public ownership. Sharer provides stable storage space for the entire storage network, and miner guarantees stable operation of the entire Genaro Consensus Network. The user contributes to the storage network revenue by contributing idle storage space through the sharer. A good data stack node will enter the committee and run miner to get the income from the Genaro Mainnet.

7 Why is the "list of current committees" and "current rankings" different?

"The current committee ranking" was determined by the results of the previous session of the committee. "Current Ranking" is the real-time ranking of the entire network. The first 101 nodes of the "current ranking" at the time of the establishment of the next committee will become members of the next committee and receive rewards for mining.

8 Why is the "current ranking" team information and the "joining co-build" team information different?

"Current Ranking" is the display page, which is the current actual team information. It's unable to apply, withdraw, etc.

The team information in "join co-build" is the information of willingness to team. All willing team formations will take effect when the next committees are established.

9 Do you have to be public IP? Can I share without public IP?

The IP address is the Internet Protocol Address. The public IP address is the IP address that can be accessed by any device connected to the Internet. It is the only one in the Internet. The so-called public network is the Internet access method, so that the IP address obtained by the computer on the Internet is a non-reserved address on the Internet, and the computers on the public network and other computers on the Internet can access each other at will.

For home network users, your ISP (network operator, such as China Telecom, China Unicom, etc.) is responsible for assigning IP to you, but this IP is not necessarily a public network IP, you need to dial the device (usually a router, there are also It may be a router and a modern 2-in-1 device. Check if you are not a public IP, then you can communicate with your ISP. If the device running Genaro sharer does not have a public IP address and the router has it, you can enable the router's Upnp function, or set the port forwarding yourself, so you can share it as well.

10 After sharing the nodes, the bridges are disconnected. After the bridges are connected, the port should be displayed in green, but the port does not show green.

If you are not connected to bridges, you need to check if the configured configuration file is correct. If the port display is not green. The problem is that the machine is not connected via uPnP, uPnP does not work, please check if the router is blocked.

11 How to set the configuration file to ensure the normal operation of the node?

After sharing the node, a configuration file is generated, and the shared attributes are set in this file. There are a few items that need to be customized:

1. The value after "rpcAddress" is changed from 127.0.0.1 to the public IP address of the machine;

2. The value of “doNotTraverseNat” is changed to “true” (if there is a public network ip);
3. The value of “storagePath” is changed to the shared path;
4. The value of “storageAllocation” is changed to the size of the shared space. The default is 20G.

(Modify the configuration file, in the drop-down menu on the menu bar on the right side of the sharing interface)

5. After modifying the configuration file, you need to restart the node.

12 How many assets are required to stake, how many assets need to be staked on a node?

The current amount of the stake is at least 5000 GNX. A corresponding 5000 GNX per stake can be bound to a node. The amount of stakes also affects your stake heft rankings, which affects the overall ranking of your data stack. The more you bet, the more bets you get. The number of bound nodes can be less than the stake amount corresponding to the bound node. For example, I stake 500000GNX, the corresponding can be bound to 100 nodes, but currently I only bind 20 of them.

13 As a data stack node of Genaro Network, how is the heft ranking calculated?

The heft ranking consists of two parts. The heft ranking of stake hefts and storage hefts combined is the total heft ranking. Among them, the more GNX staked, the higher the heft of the stake and the higher the total heft. The larger the storage space is, the longer the storage time is, and the more stable the network is, the higher the storage heft is and the higher the total heft.

14 Is there a requirement for the sharer bandwidth or hard drive?

Now mainly considering the stability of the network, the minimum requirement for contributing space at this stage is 4TB, and the GNX required for PoS is 5000. There is no hard requirement for bandwidth, but the higher the bandwidth, the easier it becomes to be a shared node, and the bandwidth depends on the capacity of the hard disk. The recommended bandwidth is at least 10m, and the port starts at 4000 and can be mapped.

15 Do you need an 8T hard drive to stake 5000GNX? What is the relationship between staking on GNX and hard drive sharing space?

An 8T hard drive is not required. Betting 5000GNX corresponds to the maximum share of 8T, for 0-8T you will need to pledge 5000GNX.. Therefore, the maximum hard disk space for each node is 8T.

Stake GNX as PoS	Bindable Nodes	Corresponding Sharing Space
[5000, 10000)	1	0 — 8 T
[10000, 15000)	2	0 — 16 T
[15000, 20000)	3	0 — 24 T
.....	
Every 5000 increase in GNX	Bind One More Node	

There is no hard requirement for bandwidth, but the higher the bandwidth, the easier it becomes to be a sharing node, and the bandwidth depends on the capacity of the hard disk.

The bandwidth is at least 10m, the port is 4000, and can be mapped.

Keeping online is a stable node. The larger the position is, the larger the sharable space.

16 How can I tell if I am connected to the public IP?

You can check the reason and check whether the sharer used is the latest version; or you can check the reason why the sharer is not working properly due to the network or the computer itself through the error prompted by the sharer;

Through the community consulting solution; join the WeChat group and add WeChat administrator: imarii6221217 to indicate the Genaro Sharer issue.

Send feedback to Genaro official. The feedback is to provide information about the computer system, version, sharer version, symptoms, error messages, logs, etc.; eden@genaro.network

17 How can I tell if my stake is successful?

After the stake is successful, on the data stack management interface, your bet assets will be displayed, and the total number of bindable nodes will also be seen.

18 Does the stake need to cost gas fee?

The bet needs to call the smart contract of the main network. So it takes a certain amount of GNX. The cost of gas consumed can be set by itself. It can also be based on the current optimum value given by the system.

19 What do the colors at the port mean?

Status

Gray: stopped

Green: running

Red: error

Delta

Green: Delay within 500ms

Red: Delay exceeds 500ms

Port

Green: Non-private network IP, and the socket connection can be successfully established according to rpcAddress and rpcPort in the configuration file.

Yellow: The user file cannot be accepted directly, but the tunnel connection is successful, and the file can be accepted through the tunnel.

Red: doNotTraverseNat (not Nat penetration) in the configuration file is configured to true and is not a public IP address.

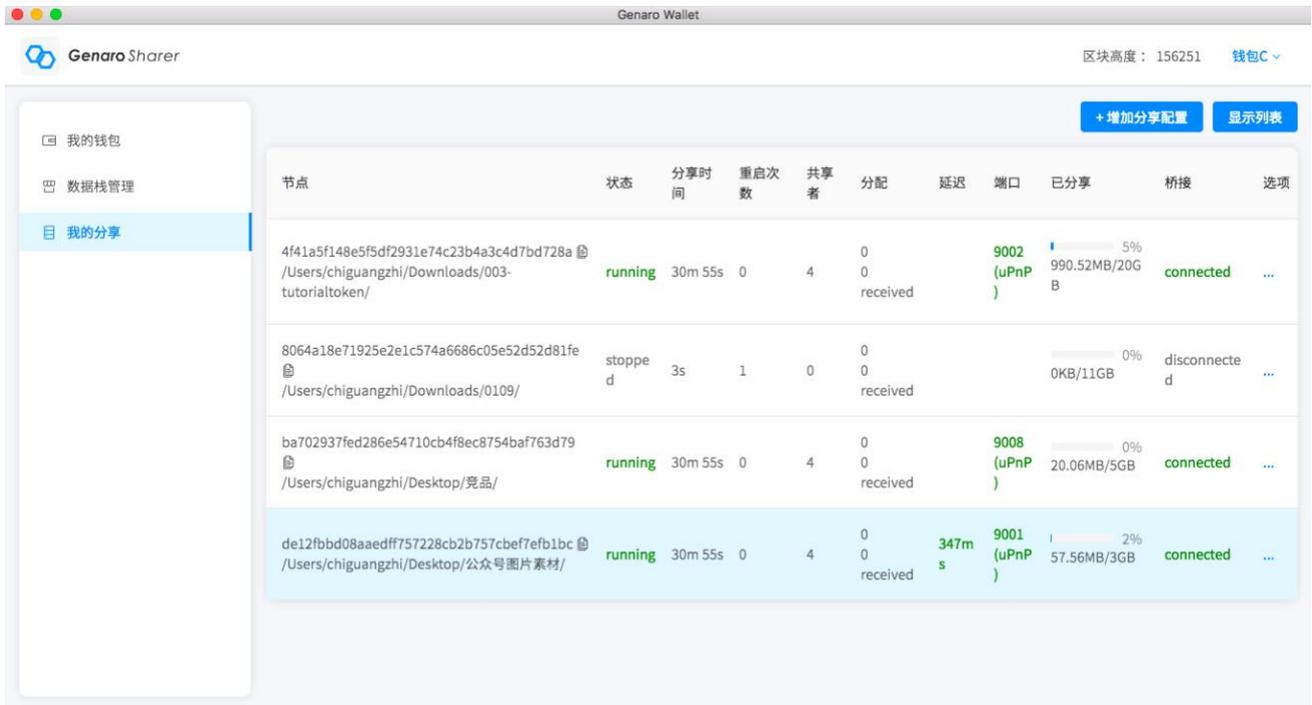
Bridges

Gray: Disconnected

Yellow: Connecting

Orange: Confirming

Green: Connected



The status, port, and bridge are all green, which proves that the node is running normally.

20 Will I be penalized if I stop Genaro Sharer storage sharing (either a manual suspension or blackout)?

The system analyzes and judges the performance of the node (including the performance before the Mainnet goes online). If the node goes offline for too long or the response is slow, it will be regarded as a malicious node, which will impose a certain penalty on the stake and affect the left ranking. However, if the nodes perform well and the weights are ranked within 101, they will be selected into the committee and further selected to make block nodes for more block package rewards and transaction fee rewards.

21 Why do you need stake, I don't share, can I share with sharer?

If you don't stake, you can share the node. But the storage network revenue is not available.

The purpose of the stake behavior is to improve the stability of the sharing node and to ensure that most nodes have a long-term effective online mechanism.

So if you want to get the shared revenue, you need to stake first, get the right to bind the sharing node, and then bind the node to get the sharing revenue.

The current amount of the stake is at least 5000gnx.

22 Can I withdraw my funds after I stake? How to lift the stake?

The right to use the asset can be restored by "unstake".

In the "Data Stack Management" interface, click the "stake" button and click on "unstake". After confirming the information, enter the wallet password to apply for an unstake. The unstake will take effect automatically within three to five days. The system automatically returns the assets that the user stakes to the wallet where the node is located. After the release request is issued, the node is not getting the corresponding storage revenue.

23 Does Genaro charge for it?

Genaro does not charge any fees. Genaro Eden and Genaro Sharer are a complete sharing economic community. Users use the storage space to charge, download traffic charges, and the transaction consumption gas is all allocated to the corresponding sharer node.

24 What if I find a Sharer running problem?

You can check the reason and check whether the sharer used is the latest version; or you can use the error prompted by sharer to troubleshoot the reason why the sharer is not working properly due to the network or the computer itself;

- Through the community consulting solution; join the WeChat group and add WeChat administrator: imarii6221217 to indicate the Genaro Sharer issue.

- Give feedback to the Genaro official. The feedback is to provide information about the computer system, version, sharer version, symptoms, error messages, logs, etc.; eden@genaro.network.

25 How to become a stable node? Are there any requirements for positions?

Keeping online is seen as a stable node, and the larger the position, the larger the shareable space.

26 Can I still get a reward if no data is assigned to my storage node?

If the shared storage space is not used by the user, the storage reward cannot be obtained and there is no storage heft. All storage nodes that are assigned to data will have storage hefts and will receive storage revenue. The storage revenue obtained = storage heft / total network storage total heft ✖ system annual storage reward. If you enter the node of the committee, you can get a reward for the whole network by mining based on the storage revenue.

27 Is it now supported to store other ERC-20 Tokens? What should I do if I transfer to another ERC-20 Token? How to get it back?

After the Testnet goes online, the latest versions of the Genaro Wallet, Genaro Eden and Genaro Sharer wallets can only store GNX.

After the Mainnet goes online, multi-wallet will be supported and cross-chain trading are implemented in version iterations.

Note: Do not transfer other tokens to Genaro's exclusive wallet until the official website announces it supports for other tokens. Otherwise, Genaro Network will not be responsible for the loss of the token.

28 Can I run Sharer with my NAS device?

It depends on the configuration of your NAS device, operating system, etc. Generally speaking, it is ok, but the Genaro team does not test all models of NAS and does not guarantee if it's running. In addition, operating the NAS requires a certain technical foundation, at least users need to be familiar with the Linux command line (most NAS is a Linux system), and the configuration of the operating system's IP, which can solve various problems encountered when installing and compiling Node. Due to the wide variety of NAS branded devices, the Genaro team does not provide dedicated technical support for the operation of NAS devices.

Download Addresses and Contact Us

Download Genaro Eden

Want to experience a more private, secure, efficient, economical, and permanent storage experience? Download Genaro Eden now and unlock your private storage!



MAC OS X



WINDOWS

Download Genaro Sharer

Download and use Genaro Sharer to share your free hard disk space for rewards!



MAC OS X



WINDOWS



LINUX / UNIX

Contact Us

| If you have any problems or suggestions when using Genaro products, please contact us:

eden@genaro.network

Genaro Sharer Introduction (UNIX Version) Genaro Sharer

Genaro Sharer Overview

Genaro Eden Sharer (Genaro Sharer for short) is a dual-strata cloud storage sharing economic network. Your storage space can be shared, and when the Genaro Eden users upload files, the sharers get the corresponding GNX storage rewards. If the sharer's node is of good quality and their heft score allows them to be added to the committee, you can also run the miner program to get the Genaro Network's block-package bonus and the fees generated by the Genaro Network's transactions. The goal is to establish a token model through the principle of sharing economy and release the value of idle storage space and data storage and transfer.

Genaro Sharer (UNIX) User guide

1. Enter the command line

Window - Start Menu - Enter cmd; Mac - Find Utility - Terminal

2. Install genaroshare-daemon

Install guide: <https://www.npmjs.com/package/genaroshare-daemon>

2.1 Make sure to install the following dependencies:

- 1) Git
- 2) Python 2.7
- 3) Node.js
- 4) NPM
- 5) GCC/G++/Make

2.2 Compile dependency

```
# xcode-select --install
```

2.3 After the installation is complete, install the following packages.

```
# npm install --global genaroshare-daemon
```

2.4 Enter genaroshare in the terminal to see if the installation was successful.

2.5 Query command help

```
# genaroshare help [Commands]
```

```

chiguangzhideAir:~ chiguangzhi$ genaroshare
env.STORJ_NETWORK: genaro
8.7.3
1.2.0-genaro

Usage: genaroshare [options] [command]

Options:
  -V, --version  output the version number
  -h, --help    output usage information

Commands:
  start          start a farming node
  stop          stop a farming node
  restart       restart a farming node
  status        check status of node(s)
  logs         tail the logs for a node
  create        create a new configuration
  createWallet  create a new wallet
  listWallets   list wallets
  deleteWallet  delete wallet
  save         snapshot the currently managed node
  load         load a snapshot of previously managed nodes
  destroy      kills the farming node
  killall     kills all nodes and stops the daemon
  stake       starts stake to share the storage
  addNode     add storage node
  getNodeToken get node token
  daemon      starts the daemon
  help [cmd]  display help for [cmd]
chiguangzhideAir:~ chiguangzhi$

```

3.Start daemon, run the program

```
# genaroshare daemon
```

```

Last login: Thu Jul 19 18:04:51 on ttys001
[XinguandeMacBook-Pro-2:~ zheng$ genaroshare daemon
env.STORJ_NETWORK: genaro
8.7.3
1.2.0-genaro
env.STORJ_NETWORK: genaro

* starting daemon in background

```

```
# genaroshare help daemon
```

```

Usage: genaroshare-daemon [options]

Options:
  --status          print the status of the daemon and exit
  -F, --foreground  keeps the process in the foreground
  -r, --remote <hostname:port> hostname and optional port of the daemon to connect to when using --status
  -h, --help       output usage information

```

4.Create/manage wallet

4.1 Create Wallet

```

XinguandeMacBook-Pro-2:~ zheng$ genaroshare createWallet
env.STORJ_NETWORK: genaro
8.7.3
1.2.0-genaro
env.STORJ_NETWORK: genaro
prompt: Enter your password: *

You have successfully created a new wallet.
THIS IS YOUR WALLET ADDR, PRIVATE KEY AND MNEMONIC, PLEASE WRITE DOWN. THIS WILL ONLY SHOW ONCE:

wallet address: 63f1228d97b31c6f68e9226fd94377a16c5e67a
private key: 0x04df65ff389256dce93472f59ccc4bbc3cbaa879e33d18da3d7263b982170648
mnemonic:raccoon average subway danger quality silent august miracle brand kingdom lemon panther

You can import this key into other wallet software

```

```
# genaroshare createWallet
```

- 1) You can add the parameter: -t privateKey to import the existing wallet with the private key;
- 2) You can add the parameter: -t mnemonic to import the existing wallet through the mnemonic;
- 3) You can add the parameter: -n <name> to specify the name of the wallet.

4.2 Delete Wallet

genaroshare deleteWallet -a <Wallet Address>

- 1) <Wallet Address>, Wallet address。

4.3 Wallet list

```
XingquandefMacBook-Pro-2:~ zheng$ genaroshare deleteWallet -a 63f1228d97b31c6f68e9226fd94377a16c53e67a
env.STORJ_NETWORK: genaro
8.7.3
1.2.0-genaro
env.STORJ_NETWORK: genaro
Your have deleted the wallet: 63f1228d97b31c6f68e9226fd94377a16c53e67a
```

genaroshare listWallets

```
XingquandefMacBook-Pro-2:~ zheng$ genaroshare listWallets
env.STORJ_NETWORK: genaro
8.7.3
1.2.0-genaro
env.STORJ_NETWORK: genaro
```

Name	Address
Account 1	63f1228d97b31c6f68e9226fd94377a16c53e67a

5.Create a new sharing configuration, share space

5.1 New configuration file

```
XingquandefMacBook-Pro-2:~ zheng$ genaroshare create
env.STORJ_NETWORK: genaro
8.7.3
1.2.0-genaro
env.STORJ_NETWORK: genaro
* configuration written to /Users/zheng/.config/genaroshare/configs/087c261aad1bf6d812d4eaa6d8259d771c9f7246.json
* opening in your favorite editor to tweak before running
2.2.0
* use new config: genaroshare start --config /Users/zheng/.config/genaroshare/configs/087c261aad1bf6d812d4eaa6d8259d771c9f7246.json
```

genaroshare create

- 1) After executing this command, the corresponding JSON configuration file will be generated and opened directly. The configuration file has already explained the meaning of each field in the comments. Please change the meaning of the field when you change the field.
- 2) The IP address of the url in the bridges needs to be the same as the IP address of the seedList.
- 3) The configuration file address is shown in red.
- 4) rpcAddress: RPC's IP

- 5) doNotTraverseNat: if traverse is needed
- 6) storagePath: sharing path
- 7) storageAllocation: Shared space size, the default is 20G.

```

{
  // Set the STORJ/ERC20 wallet address for receiving contract payments
  "paymentAddress": "0x38029ccdf018b7a9fc1011bb0e89d39477b489a7",
  // Subscribes to the given contract topics
  // See https://storj.github.io/core/tutorial-contract-topics.html
  "opcodeSubscriptions": [
    "0f01020202",
    "0f02020202",
    "0f03020202"
  ],
  // An array of bridges to connect and accept contracts,
  // send exchange reports and discover network seeds.
  "bridges": [
    {
      "url": "http://118.31.61.119:8080",
      "extendedKey": "xpub66ABDixD5jqqUWnzHfH2WgAuANKDeThmXqLYaXsUuzpvrFNBZvbfBMOXbYkoq1Cvvpb1NE9zAzcC9Vq8dMMDbmjcBcU8F4jaUmFkyjr"
    }
  ],
  // Known preferred seeds in form of a storj URI
  // Example: "storj://[ip.or.hostname]:[port]/[nodeid]"
  "seedlist": [
    "storj://118.31.61.119:4000/337472da3068fa05d415262baf4df5bada8aefdc"
  ],
  // Interface to bind RPC server, use 0.0.0.0 for all interfaces or if you
  // have a public address, use that, else leave 127.0.0.1 and Storj Share
  // will try to determine your address
  "rpcAddress": "127.0.0.1",
  // Port to bind for RPC server, make sure this is forwarded if behind a
  // NAT or firewall - otherwise Storj Share will try to punch out
  "rpcPort": 4000,
  // doNotTraverseNat: true requires you to have an external ip address.
  // You can use a proxy to gain an external IP address.
  // doNotTraverseNat: false Enables NAT traversal strategies
  // first UPnP, then reverse HTTP tunnel
  // If that fails, Disable if you are public or using dynamic DNS
  "doNotTraverseNat": false,
  // Maximum number of tunnels to provide to the network
  // Tunnels help nodes with restrictive network configurations participate
  "maxTunnels": 3,
  // Maximum number of concurrent connections to allow
  "maxConnections": 150,
  // If providing tunnels, the starting and ending port range to open for
  // them
  "tunnelGatewayRange": {
    "min": 4001,
    "max": 4003
  },
  // Number of times to retry joining the network and the wait time between
  "joinRetry": {
    "times": 3,
    "interval": 5000
  },
  // Temporarily stop sending OFFER messages if more than this number of shard
  // transfers are active
  "offerBackoffLimit": 4,
  // ECDSA private key for your network identity, your Node ID is derived from
  // this and it is used to sign and verify messages
  "networkPrivateKey": "30651d2b87e49ee09fe92117f4808a09c1c979b9701193db2d07f90fe31907",
  // Determines how much detail is shown in the log;
  // 4 - DEBUG | 3 - INFO | 2 - WARN | 1 - ERROR | 0 - SILENT
  "loggerVerbosity": 3,
  // Path to write the log file to disk, leave empty to default to:
}

```

5.2 Start sharing space

genaroshare start --config <Configure Path>

- 1) <Configure Path>, Configuration file path, which is the configuration file created in 5.1.

```

XingquandeMacBook-Pro-2:~ zheng$ genaroshare start --config /Users/zheng/.config/genaroshare/configs/087c261aad1bf6d812d4eaa6d8259d771c9f7246.json
env.STORJ_NETWORK: genaro
0.7.3
1.2.0-genaro
env.STORJ_NETWORK: genaro
* starting node with config at /Users/zheng/.config/genaroshare/configs/087c261aad1bf6d812d4eaa6d8259d771c9f7246.json

```

5.3 Check sharing status

```

XingquandeMacBook-Pro-2:~ zheng$ genaroshare status
env.STORJ_NETWORK: genaro
0.7.3
1.2.0-genaro
env.STORJ_NETWORK: genaro

```

Node	Status	Uptime	Restarts	Peers	Allocs	Delta	Port	Shared	Bridges
087c261aad1bf6d812d4eaa6d8259d771c9f7246	running	14s	0	0	0	...	4000 (uPNP)	...	connected
./Users/zheng/.config/genaroshare/share...					0 received			(...%)	

genaroshare status

- 1) Node: Share node's ID and storage path

- 2) Status: Running status
- 3) Uptime: Start time
- 4) Restarts: Times to restart
- 5) Allocs: the task received this time
- 6) Delta: time delayed
- 7) Port: start port
- 8) Shared: Storage sharing
- 9) Bridges: Bridging situation

The connection is successful when the corresponding values of running, delta, port, and bridges are all green.

5.4 Delete node

genaroshare destroy -i <Node>

```
XingquandeMacBook-Pro-2:~ zheng$ genaroshare destroy -i 087c261aad1bf6d812d4eaa6d8259d771c9f7246
env.STORJ_NETWORK: genaro
8.7.3
1.2.0-genaro
env.STORJ_NETWORK: genaro
* share 087c261aad1bf6d812d4eaa6d8259d771c9f7246 destroyed
```

- 1) <Node>, node name

5.5 pause node

genaroshare stop -i <Node>

- 1) <Node>,node name

5.6 restart node

genaroshare restart -i <Node>

- 1) <Node>, node name

6.Stake

6.1Stake

genaroshare stake -a <Wallet Address> -q <Stake Amount>

```
XingquandeMacBook-Pro-2:~ zheng$ genaroshare stake -a 63f1228d97b31c6f68e9226fd94377a16c53e67a -q 6000
env.STORJ_NETWORK: genaro
8.7.3
1.2.0-genaro
env.STORJ_NETWORK: genaro
prompt: Enter your password: *

hash: 0x371cc933f863bf16ed442932f3c53b79006c9deba51582a667d53fa1db01a37e
* stake successfully
```

- 1) <Wallet Address>, wallet address
- 2) <Stake Amount>, stake limit

7. Bind node

7.1 Get the node token you want to bind to the stake wallet

```
# genaroshare getNodeToken -a <WalletAddress> -c <Config Path>
```

```
chiguangzhideAir:~ chiguangzhi$ genaroshare getNodeToken -a f4d93a2c5bdef91ff93a285c7c9e8a4305282f68 -c /Users/chiguangzhi/.config/genaroshare/configs_testchain/aa59356902ad43da5bf189c3e030b383da177e59.json
env.STORJ_NETWORK: genaro
8.7.3
1.2.0-genaro

Usage: genaroshare [options] [command]

Options:
  -V, --version    output the version number
  -h, --help       output usage information

Commands:
  start            start a farming node
  stop             stop a farming node
  restart         restart a farming node
  status          check status of node(s)
  logs            tail the logs for a node
  create          create a new configuration
  createWallet    create a new wallet
  listWallets     list wallets
  deleteWallet    delete wallet
  save            snapshot the currently managed node
  load            load a snapshot of previously managed nodes
  destroy         kills the farming node
  killall         kills all nodes and stops the daemon
  stake           starts stake to share the storage
  addNode         add storage node
  getNodeToken    get node token
  daemon         starts the daemon
  help [cmd]     display help for [cmd]
chiguangzhideAir:~ chiguangzhi$ env.STORJ_NETWORK: genaro

* token: 0x7d6438fa821a88b91cd8c7f1c2cfab802fc63d8da3f64a086b51d9936c937e987e27888683b62f921126d77e793cdeaa7d774984179bbc862c238e92b2b4e55e01--aa59356902ad43da5bf189c3e030b383da177e59
█
```

1) < Config Path > Path to the node configuration file

7.2 Bind node

```
# genaroshare addNode -a <Wallet Address> -t <Token>
```

```
[chiguangzhideAir:~ chiguangzhi$ genaroshare addNode -a f4d93a2c5bdef91ff93a285c7c9e8a4305282f68 -t 0x7d6438fa821a88b91cd8c7f1c2cfab802fc63d8da3f64a086b51d9936c937e987e27888683b62f921126d77e793cdeaa7d774984179bbc862c238e92b2b4e55e01--aa59356902ad43da5bf189c3e030b383da177e59
env.STORJ_NETWORK: genaro
8.7.3
1.2.0-genaro
env.STORJ_NETWORK: genaro
[prompt: Enter your password: *****

hash: 0xb4906118c33a744117e5216a58c71fb55dc4b5667e4b72a4bf5cb9a11e51ef75
█
```

1) <Wallet Address>, wallet address

2) < Token >, The node token obtained in step 6.2

7.3 Remove Bind

genaroshare removeNode -a <Wallet Address> -n <Node>

- 1) <Wallet Address>, Wallet address;
- 2) <Node>, node name

8. Check sharing log

8.1 show log

```
XingquandeMacBook-Pro-2:~ zheng$ genaroshare logs -f bc7b43fb3a122d81ea832149b49764a85c66967c
env.STORJ_NETWORK: genaro
8.7.3
1.2.0-genaro
env.STORJ_NETWORK: genaro
[ info ] [ 2018-07-19T11:02:00.869Z ]
[ subscribing to topic "0f01020202" ]
[ info ] [ 2018-07-19T11:02:00.869Z ]
[ subscribing to topic "0f01020202" ]
[ info ] [ 2018-07-19T11:02:00.870Z ]
[ info ] [ 2018-07-19T11:12:00.866Z ]
[ attempting to join network via storj://118.31.61.119:4000/337472da3068fa05d415262baf4df5bada8aefdc ]
[ info ] [ 2018-07-19T11:12:00.869Z ]
[ sending FIND_NODE message to {"userAgent":"8.7.3","protocol":"1.2.0-genaro","address":"118.31.61.119","port":4000,"nodeID":"337472da3068fa05d415262baf4df5bada8aefdc","lastSeen":1531998720868} ]
[ warn ] [ 2018-07-19T11:12:00.901Z ]
[ missing or empty reply from contact ]
[ warn ] [ 2018-07-19T11:12:31.013Z ]
[ rpc call adfe843408d214867974d7319f925aa819d297f6 timed out ]
[ warn ] [ 2018-07-19T11:12:31.014Z ]
[ query failed, removing contact for shortlist, reason RPC with ID 'adfe843408d214867974d7319f925aa819d297f6' timed out ]
[ warn ] [ 2018-07-19T11:12:31.014Z ]
[ failed to connect to seed storj://118.31.61.119:4000/337472da3068fa05d415262baf4df5bada8aefdc ]
[ warn ] [ 2018-07-19T11:12:31.014Z ]
[ failed to join the network, queuing re-entry ]
[ info ] [ 2018-07-19T11:12:31.014Z ]
[ subscribing to topic "0f01020202" ]
[ info ] [ 2018-07-19T11:12:31.015Z ]
[ subscribing to topic "0f01020202" ]
[ info ] [ 2018-07-19T11:12:31.015Z ]
[ subscribing to topic "0f01020202" ]
[ info ] [ 2018-07-19T11:12:31.017Z ]
[ subscribing to topic "0f01020202" ]
[ info ] [ 2018-07-19T11:12:31.017Z ]
[ subscribing to topic "0f01020202" ]
[ info ] [ 2018-07-19T11:12:31.018Z ]
[ subscribing to topic "0f01020202" ]
[ info ] [ 2018-07-19T11:17:00.869Z ]
[ publishing message on topic "0001" ]
[ info ] [ 2018-07-19T11:22:31.018Z ]
[ attempting to join network via storj://118.31.61.119:4000/337472da3068fa05d415262baf4df5bada8aefdc ]
[ info ] [ 2018-07-19T11:22:31.020Z ]
[ sending FIND_NODE message to {"userAgent":"8.7.3","protocol":"1.2.0-genaro","address":"118.31.61.119","port":4000,"nodeID":"337472da3068fa05d415262baf4df5bada8aefdc","lastSeen":1531999351019} ]
[ warn ] [ 2018-07-19T11:23:01.174Z ]
[ query failed, removing contact for shortlist, reason RPC with ID 'bf9374cc4fd98aa692ad84989e84ac063259612f' timed out ]
[ warn ] [ 2018-07-19T11:23:01.175Z ]
[ failed to connect to seed storj://118.31.61.119:4000/337472da3068fa05d415262baf4df5bada8aefdc ]
[ warn ] [ 2018-07-19T11:23:01.175Z ]
[ failed to join the network, queuing re-entry ]
[ info ] [ 2018-07-19T11:23:01.175Z ]
[ subscribing to topic "0f01020202" ]
```

genaroshare logs -i <Node>

- 1) log saved path: /Users/<User Name>/.config/genaroshare/logs

9. How to update Genaro Sharer and check updates

Genaroshare-daemon: The program will continue to improve, and if you need to upgrade, first check if there is a new version:

Check the local version number with the following command:

```
npm list -g genaroshare-daemon
```

Check the latest version number with the following command:

```
npm show genaroshare-daemon version
```

e.g:

```
root@iZuf6dbcu27ydzzeab7b9qZ:~# npm list -g genaroshare-daemon
/root/.npm/versions/node/v8.10.0/lib
└─ genaroshare-daemon@1.2.5

root@iZuf6dbcu27ydzzeab7b9qZ:~# npm show genaroshare-daemon version
1.2.5
```

Install the latest version of genaroshare-daemon with the following command

```
npm install -g genaroshare-daemon
```

10. Testnet environment miner upgrade (only for miners participating in the test period)

Before the end of the test period, Genaro will notify all users participating in the test to back up their data, so the miner can delete the data of the shared space at the end of the test period.

The upgrade is divided into 4 steps:

1. Stop sharing, command:

```
# genaroshare killall
```

2. Delete data

Open the JSON format configuration file (by default, `~/.config/genaroshare/configs` or `~/.config/storjshare/configs`), where the value of `storagePath` is the shared path and delete all files in the path.

Delete the JSON formatted configuration file itself

3. Update genaroshare-daemon, command:

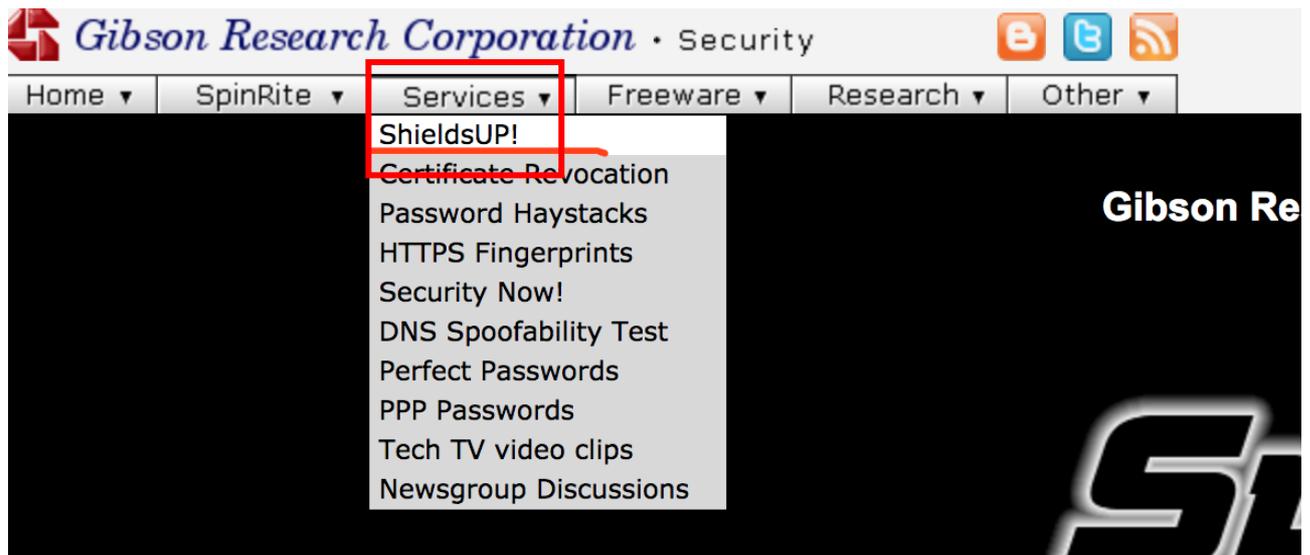
```
npm install -g genaroshare-daemon
```

4. Follow the steps in this document to start a new formal sharing. paymentinfo:

Commonly used to detect whether the page can be

uPnP:

https://www.grc.com/intro.htm Follow the steps below



Welcome to ShieldsUP!

If you have not visited for some time, please note that:

- Our new **Perfect Passwords** facility is used by thousands of people every day to generate ultra-high-quality random passwords for securing WiFi and other services.
- Our weekly **Security Now!** audio podcast has covered **every security issue** you might have. These mp3 audio files are freely downloadable, and since we have transcripts of every podcast, you can use our sitewide search to find any podcast by keyword.

If you are new to this site and our services:

Please take just a moment to read and consider these three points:

Your use of the Internet security vulnerability profiling services on this site constitutes your **FORMAL PERMISSION** for us to conduct these tests and requests our transmission of Internet packets to your computer. ShieldsUP!! benignly probes the target computer at your location. Since these proings must travel from **our** server to **your** computer, you should be certain to have administrative right-of-way to conduct probative protocol tests through any and all equipment located between your computer and the Internet.

NO INFORMATION gained from your use of these services will be retained, viewed or used by us or anyone else in any way for any purpose whatsoever.

If you are using a personal firewall product which LOGS contacts by other systems, you should expect to see entries from this site's probing IP addresses: **4.79.142.192** -thru- **4.79.142.207**. Since we own this IP range, these packets will be from us and will **NOT BE ANY FORM OF MALICIOUS INTRUSION ATTEMPT OR ATTACK** on your computer. You can use the report of their arrival as handy confirmation that your intrusion logging systems are operating correctly, but please do not be concerned with their appearance in your firewall logs. It's expected.

Shields UP!!

Port Authority Edition – Internet Vulnerability Profiling
by Steve Gibson, Gibson Research Corporation.



Greetings!

Without your knowledge or explicit permission, the Windows networking technology which connects your computer to the Internet **may be offering some or all of your computer's data to the entire world at this very moment!**

- **For orientation and background**, please examine the page links provided below for important information about Internet vulnerabilities, precautions and solutions.
- **First time users** should start by checking their **Windows File Sharing** and **Common Ports** vulnerabilities with the "File Sharing" and "Common Ports" buttons below.
- For orientation and information about the Port Authority system, click the **Home** or **Help** icons in the sidebar.



If you show the following picture, it proves that your route does not support upnp

Your equipment at IP:

27.115.27.22

Is now being queried:



**THE EQUIPMENT AT THE TARGET IP ADDRESS
DID NOT RESPOND TO OUR UPnP PROBES!**

(That's good news!)

FAQ

1. bridges as disconnected

Not connected to the bridges, need to check if the settings are correct

```
genaroshare-daemon
* daemon is already running
genaroshare-start --config /Users/.../.config/genaroshare/configs/070932e1a01a4820836e4d32754821088ff8352d.json
* starting node with config at /Users/weilongwu/.config/genaroshare/configs/070932e1a01a4820836e4d32754821088ff8352d.json
genaroshare status
```

Node	Status	Uptime	Restarts	Peers	Allocs	Delta	Port	Shared	Bridges
070932e1a01a4820836e4d32754821088ff8352d	running	5s	0	0	0	disconnected
					0 received			(...%)	

2. The port should be displayed in green after the bridges are connected, but the port does not show green.

The problem is that the machine is not connected via uPnP, uPnP does not work, please check if the router is blocked.

3. When can I start to earn revenue by sharing hard drive space?

The Sentinel Contest starts in mid-September. All Genaro storage space sharers can participate. The competition will be held on the Genaro Testnet, and the top 31 players in the competition will receive the GNX bonus.

(The competition rules can be found in the relevant documents related to the sentinel contest <https://genaro.networkwork>)

After the Mainnet goes online, all sharers will be able to share the storage space and get the corresponding GNX storage network revenue reward. And enter the committee's nodes; you can get the Genaro Network block generation rewards and transaction fee rewards.

4. What are the benefits of sharing? How are these calculated?

During the Testnet, at the end of the sentinel contest, the top 31 nodes (or co-built nodes) with leading heft scores will share a 500,000 GNX bonus.

- After the Mainnet goes online, the revenue obtained by the data stack (node) will be divided into storage network revenue and mining revenue.

- Storage network revenue is determined by the node's contribution to the storage network. The more data the node stores, the more stable the online time, the greater the total storage heft ratio of the stored storage weight of the entire network, and the more the storage network benefits.

Storage Revenue = Storage heft / Full Network Storage heft ✖ The coin pool stores rewards each year.

Among them, the coin pool stores the reward every year = the total amount of tokens ✖ 25% ✖ 7% (the proportion of remaining tokens issued each year) ✖ 50% (current storage bonus coefficient)

All nodes that share valid space and store real data will receive storage weights and receive storage network rewards.

- The mining revenue is determined by the ratio of the stake assets of the committee nodes, including full network transaction fee reward + block package reward.

The more assets staked, the higher the heft of the stake, the greater the ratio of the stake heft of the node to the total heft of the stake on the whole network, and the more mining gains obtained when the block is generated.

Mining revenue = stake heft / committee total stake heft ✖ annual pool mining reward

Among them, the annual mining reward of the coin pool = the total amount of tokens ✖ 25% ✖ 7% (the proportion of remaining tokens issued each year) ✖ 50% (current storage bonus coefficient)

The mining revenue can only be obtained if the total heft is ranked in the committee. During the Sentinel contest, the top 31 nodes will enter the first committee directly after the Mainnet is online. The nodes ranked 31 to 101 will judge whether to enter the first committee based on the test results of the Testnet.

Note: The proportion of the income coefficient after the Mainnet going online as well as the list of the first committee members will be announced in the end of the sentinel contest.

5. What is the coin pool? Will the total amount change?

The coin pool is the token incentive mechanism for the entire Genaro Network's dual-strata smart data ecosystem. It is also an important part of Genaro's sharing economic ecosystem. The initial assets of the coin pool account for 25% of the total Genaro eco-token. 7% of the remaining coins are distributed annually for the Genaro storage network and the public chain ecological construction. At the same time, the user's storage costs, downstream bandwidth usage fees, gas costs for the entire network transaction, and future Genaro-based DApp user spending will once again return to the pool to form a healthy economic ecosystem.

6. How do I share hard disk space by using sharer and become one of Genaro's data stack nodes to get storage revenue?

There are FIVE steps to becoming a data stack node and gaining storage network revenue:

- 1 Ensure that the computer is connected to the public network IP and download the sharer program.
- 2 Create a shared configuration and share hard drive space.
- 3 Set the node's configuration file to ensure that the node is in normal operation.
- 4 Stake your GNX
- 5 Bind the shared node. Get the income.

7. How do I get the mining revenue?

To share the hard drive to obtain the income of the Genaro public chain network requires two conditions:

1. Become a data stack node, share hard disk space to gain storage network revenue, and become a member of the committee.
2. Download the miner program to synchronize the entire network block. Download address and instructions for use: <https://genaro.networkwork>

8. As a sharing node of Genaro, why do you want to download two programs when you want to get mining revenue?

The Genaro Network is a distributed, sharing cloud that combines a dual-strata smart data ecosystem of storage and public ownership. Sharer provides stable storage space for the entire storage network, and miner guarantees the stable operation of the entire Genaro Consensus Network. The user contributes to storage network revenue by contributing idle storage space through sharer. A good data stack node will enter the committee and run miner to get income from the Genaro Mainnet.

9. Do you have to be public IP? Can I share without public IP?

The IP address is the Internet Protocol Address. The public IP address is the IP address that can be accessed by any device connected to the Internet. It is the only one in the Internet. The so-called public network is the Internet access method, so that the IP address obtained by the computer on the Internet is a non-reserved address on the Internet, and the computers on the public network and other computers on the Internet can access each other at will.

For home network users, your ISP (network operator, such as China Telecom, China Unicom, etc.) is responsible for assigning IP to you, but this IP is not necessarily a public network IP, you need to dial the device (usually a router, there are also It may be a router and a modern 2-in-1 device. Check if you are not a public IP, then you can communicate with your ISP. If the device running Genaro sharer does not have a public IP address and the router has it, you can enable the router's uPnP function, or set the port forwarding yourself, so you can share it as well.

10. After sharing the nodes, the bridges are disconnected. After the bridges are connected, the port should be displayed in green, but what if the port does not show green?

If you are not connected to bridges, you need to check if the configuration file is correct. If the

port display is not green, the problem is that the machine is not connected via uPnP. If uPnP does not work, please check if the router is blocked.

11. How to set the configuration file to ensure the normal operation of the node?

After sharing the node, a configuration file is generated, and the shared attributes are set in this file. There are a few items that need to be customized:

1. The value after “rpcAddress” is changed from 127.0.0.1 to the public IP address of the machine;
2. The value of “doNotTraverseNat” is changed to “true” (if there is a public network ip);
3. The value of “storagePath” is changed to the shared path;
4. The value of “storageAllocation” is changed to the size of the shared space. The default is 20G.

(Modify the configuration file, in the drop-down menu on the menu bar on the right side of the sharing interface)

5. After modifying the configuration file, you need to restart the node.

12. How many assets are required to stake, how many assets need to be staked on a node?

The current amount of the stake is at least 5000 GNX. A corresponding 5000 GNX per stake can be bound to a node. The amount of stake also affects your stake heft rankings, which affects the overall ranking of your data stack. The more you bet, the more bets you get. The number of bound nodes can be less than the stake amount corresponding to the bound node. For example, if I stake 500000GNX, the corresponding amount can be bound to 100 nodes, but currently I only bind to 20 of them.

13. As a data stack node of Genaro Network, how is the heft ranking calculated?

The heft ranking consists of two parts. The heft ranking of stake hefts and storage hefts

combined is the total heft ranking. Among them, the more GNX staked, the higher the heft of the stake and the higher the total heft. The larger the storage space is, the longer the storage time is, and the more stable the network is, the higher the storage heft is and the higher the total heft.

14. Is there a requirement for the sharer bandwidth or hard drive?

Now mainly considering the stability of the network, the minimum requirement for contributing space at this stage is 4TB, and the GNX required for PoS is 5000. There is no hard requirement for bandwidth, but the higher the bandwidth, the easier it becomes to be a shared node, and the bandwidth depends on the capacity of the hard disk. The recommended bandwidth is at least 10m, and the port starts at 4000 and can be mapped.

15. Do you need an 8T hard drive to stake 5000GNX? What is the relationship between staking on GNX and hard drive sharing space?

An 8T hard drive is not required. Betting 5000GNX corresponds to the maximum share of 8T, for 0-8T you will need to pledge 5000GNX. Therefore, the maximum hard disk space for each node is 8T.

Stake GNX as PoS	Bindable Nodes	Corresponding Sharing Space
[5000, 10000)	1	0 — 8 T
[10000, 15000)	2	0 — 16 T
[15000, 20000)	3	0 — 24 T
.....	
Every 5000 increase in GNX	Bind One More Node	

There is no hard requirement for bandwidth, but the higher the bandwidth, the easier it becomes to be a sharing node, and the bandwidth depends on the capacity of the hard disk.

The bandwidth is at least 10m, the port is 4000, and can be mapped.

Keeping online is a stable node. The larger the position is, the larger the sharable space.

16. How can I tell if I am connected to the public IP?

You can check the reason and check whether the sharer used is the latest version; or you can check the reason why the sharer is not working properly due to the network or the computer itself through the error prompted by the sharer.

For the community consulting solution, join the WeChat group and add WeChat administrator: imarii6221217 to indicate the Genaro Sharer issue.

Send feedback to Genaro official. The feedback is to provide information about the computer system, version, sharer version, symptoms, error messages, logs, etc.; eden@genaro.network

17. How can I tell if my stake is successful?

After the stake is successful, on the data stack management interface, your bet assets will be displayed, and the total number of bindable nodes will also be seen.

18. Does the stake need to cost gas fee?

The bet needs to call the smart contract of the main network. So it takes a certain amount of GNX. The cost of gas consumed can be set by itself. It can also be based on the current optimum value given by the system.

19. What do the colors at the port mean?

Status

Gray: stopped

Green: running

Red: error

Delta

Green: Delay within 500ms

Red: Delay exceeds 500ms

Port

Green: Non-private network IP, and the socket connection can be successfully established according to rpcAddress and rpcPort in the configuration file.

Yellow: The user file cannot be accepted directly, but the tunnel connection is successful, and the file can be accepted through the tunnel.

Red: doNotTraverseNat (not Nat penetration) in the configuration file is configured to true and is not a public IP address.

Bridges

Gray: Disconnected

Yellow: Connecting

Orange: Confirming

Green: Connected

The screenshot shows the G-BOX interface. On the left is a sidebar with navigation items: 'My wallet', 'My sharing' (selected), 'Data stack management', 'The current Committee', 'Co construction nodes', and 'Download Miner'. At the bottom of the sidebar is the 'Genaro Sharer v0.3.6' logo. The main area is titled 'My Drives' and contains a table with columns: Node, Status, Shared time, Port, Shared, Bridge, and Option. There are two buttons at the top right: 'Add Drive' and 'Display list'. The table lists three nodes, all with a 'running' status and 'connected' bridges.

Node	Status	Shared time	Port	Shared	Bridge	Option
09a7d71448d21e4e0ccaf181f8acfac8eb466c86 /Users/chiguangzhi/Desktop/test/	running	27m 54s	9006 (uPnP)	0KB/2GB 0%	connected	...
14003921906e29a25d41a1bd67527cf7c220cc4d /Users/chiguangzhi/Downloads/003-tutorialtoken/	running	27m 35s	9001 (uPnP)	209.07MB/1GB 20%	connected	...
4883592f80a2a1676bef5a3866582e930ad1812e /Users/chiguangzhi/Downloads/003-tutorialtoken/	running	17m 8s	9002 (uPnP)	0KB/2GB 0%	connected	...

When "Status," "Port," "Bridge" are green, it means the nodes are running properly.

20. Will I be penalized if I stop Genaro Sharer storage sharing (either a manual suspension or blackout)?

The system analyzes and judges the performance of the node (including the performance before the Mainnet goes online). If the node goes offline for too long or the response is slow, it will be regarded as a malicious node, which will impose a certain penalty on the stake and affect the heft ranking. However, if the nodes perform well and the weights are ranked within 101, they will be selected into the committee and further selected to make block nodes for more block package rewards and transaction fee rewards.

21. Can I share with sharer without staking?

If you don't stake, you can share the node. But the storage network revenue will not be available.

The purpose of the stake behavior is to improve the stability of the sharing node and to ensure that most nodes have a long-term effective online mechanism.

So if you want to get the shared revenue, you need to stake first, get the right to bind the sharing node, and then bind the node to get the sharing revenue. The current amount of the stake is at least 5000GNX.

22. Can I withdraw my funds after I stake? How to lift the stake?

The right to use the asset can be restored by "unstake".

In the "Data Stack Management" interface, click the "stake" button and click on "unstake". After confirming the information, enter the wallet password to apply for an unstake. The unstake will take effect automatically within three to five days. The system automatically returns the assets that the user stakes to the wallet where the node is located. After the release request is issued, the node is not getting the corresponding storage revenue.

23. Does Genaro charge for it?

Genaro does not charge any fees. Genaro Eden and Genaro Sharer are a complete sharing economic community. Users use the storage space to charge, download traffic charges, and the transaction consumption gas is all allocated to the corresponding sharer node.

24. What if I find a Sharer running problem?

You can check the reason and check whether the sharer used is the latest version; or you can use the error prompted by sharer to troubleshoot the reason why the sharer is not working properly due to the network or the computer itself;

- Through the community consulting solution; join the WeChat group and add WeChat administrator: imarii6221217 to indicate the Genaro Sharer issue.
- Give feedback to the Genaro official. The feedback is to provide information about the computer system, version, sharer version, symptoms, error messages, logs, etc.; eden@genaro.network.

25. How to become a stable node? Are there any requirements for positions?

Keeping online is seen as being a stable node, and the larger the position, the larger the shareable space.

26. Can I run Sharer with my NAS device?

It depends on the configuration of your NAS device, operating system, etc. Generally speaking, it is ok, but the Genaro team does not test all models of NAS and does not guarantee that it will run. In addition, operating the NAS requires a certain technical foundation, at least users need to be familiar with the Linux command line (most NAS is a Linux system), and the configuration of the operating system's IP, which can solve various problems encountered when installing and compiling nodes. Due to the wide variety of NAS branded devices, the Genaro team does not provide dedicated technical support for the operation of NAS devices.

27. Can I still get a reward if no data is assigned to my storage node?

If the shared storage space is not used by the user, the storage reward cannot be obtained and there is no storage heft. All storage nodes that are assigned to data will have storage hefts and will receive storage revenue. The storage revenue obtained = storage heft / total network storage total heft ✖ system annual storage reward. If you enter the node of the committee, you can get a reward for the whole network by mining based on the storage revenue.

28. Is it now supported to store other ERC-20 Tokens? What should I do if I transfer to another ERC-20 Token? How to get it back?

After the Testnet goes online, the latest versions of the Genaro Wallet, Genaro Eden and Genaro Sharer wallets will only store GNX.

After the Mainnet goes online, multiple wallets will be supported and cross-chain trading implemented in version iterations.

Note: Do not transfer other tokens to Genaro's exclusive wallet until the official website announces it supports for other tokens. Otherwise, Genaro Network will not be responsible for the loss of the token.

29. Can the team recommend a good node configuration? Which is more efficient as a node: NAS or computer disk array?

Most mainstream computers are fine. There is no high demand for disk because Genaro does not adopt a very heavy GPU or memory mining method, it is usually possible to share more if you wish, depending on whether your network connection is fast enough, whether the link with the uploading file user is fast enough and whether your node is stable online. NAS will be more efficient, depending on the size of your personal bandwidth.

Download Addresses and Contact Us

Download Genaro Eden

Want to experience a more private, secure, efficient, economical, and permanent storage experience? Download Genaro Eden now and unlock your private storage!



MAC OS X



WINDOWS

Download Genaro Sharer

Download and use Genaro Sharer to share your free hard disk space for rewards !



MAC OS X



WINDOWS



LINUX / UNIX

Contact Us

| If you have any problems or suggestions when using Genaro products, please contact us :
eden@genaro.network

Miner mining program (go-genaro) installation and operating instructions

Members of the committee can run the Miner CLI (go-genaro) and synchronize the entire network block to get the mining bonus on the chain.

Windows system go-genaro installation

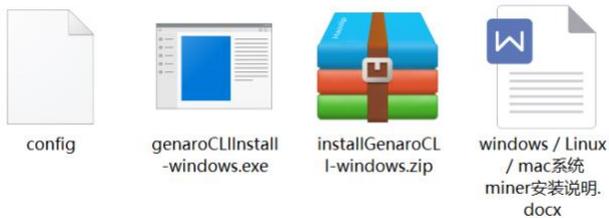
1 Download installation address:

<https://genaro-release.oss-cn-hangzhou.aliyuncs.com/miner-win.zip>

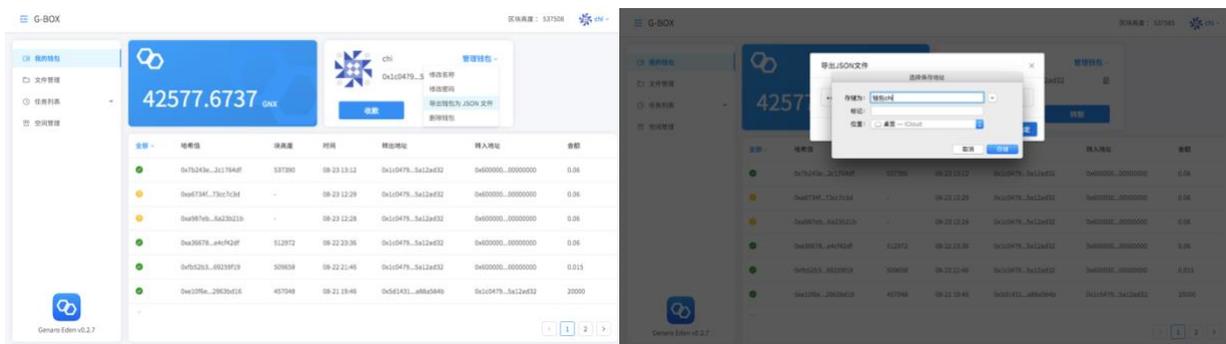


miner-win.zip

2 Extract file genaroNetwork-windows.zip



3 In the Genaro Sharer program, export the wallet private key to a JSON file or save it in your txt format on your computer.



4 change configuration file config

Open config, save and close after modifying the configuration

{

"dir": "F:/windowsGenaroNetwork/", 【modify your genaro CLIInstall installation directory in ""(note that there must be "/" in the back)】

"privatekey": "D:/ceshi/test/key", 【Modify the private key backup path in "", the private key must be the wallet private key to enter the committee node, otherwise you can not get the mining block revenue (backup file can be your txt format to save the private key, or backup wallet JSON file format)】

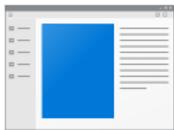
"Password": "123456", [Fill in the mining wallet password】

"port": "30315", 【NIC monitoring port, no need to change】

"wsport": "8545" 【WS-RPC server monitoring port, no need to change】

}

5 After the go-genaroInstall-windows.exe (installation and startup) is successfully started in the current directory, normal mining begins. The mining program "go-genaroRestart-windows.exe" will be installed automatically in your installation path.



genaroCLIInstall
-windows.exe

If a restart is needed

windows system restart go-genaro

To the installation directory (Installation directory F:/windowsGenaroNetwork/)

Run go-genaroRestart-windows.exe

Note: During mining, you cannot close the client, otherwise you will not be able to synchronize the entire network block and get the mining revenue.

MAC system go-genaro installation

1 Download installation address:

<https://genaro-release.oss-cn-hangzhou.aliyuncs.com/miner-mac.zip>



miner-mac.zip

2 Extract file genaroNetwork-mac.zip



config



genaroCLIInstall-mac

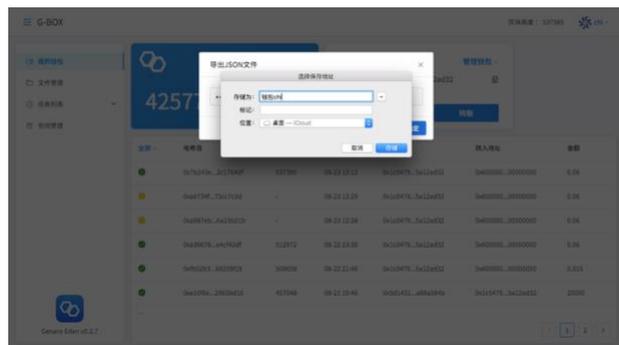
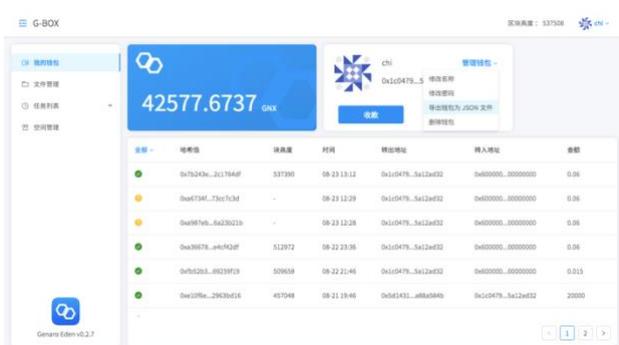


installGenaroCLI-mac.zip



windows / Linux / mac... 安装说明

3 In the Genaro Sharer program, export the wallet private key to a JSON file or txt format and save it on your computer.



4 Modify configuration file config

Open config, save and close after modifying the configuration



config

```
{
  "dir": "/home/qian/genaroNetworkTest/", 【In the "", modify your miner installation directory (note that there must be /)】
  "privatekey":
"/home/qian/gopath/src/github.com/GenaroNetwork/Genaro-Core/automatedScript/chainNode/c
hainNode4/keystore/UTC--2018-06-29T08-04-30.680138193Z--dd223f984364ab18c8b4c25cfdcd04
636946cc7f", 【Modify the private key backup path in "", the private key must be the wallet private
key to enter the committee node, otherwise you can not get the mining block revenue (backup file
can be your txt format to save the private key, or backup wallet JSON file format)】
  "Password": "123456", 【Fill in the mining wallet password】
  "port": "30315", 【NIC monitoring port, no need to change】
  "wsport": "8545" 【WS-RPC server monitoring port, no need to change】
}
```

5 Open the "command line" window, find the directory in the "command line" window, run nohup in the current directory. ./go-genaroInstall-mac > loginfo.log & (install and start) **【This command starts the program as a background process and logs the program log to the loginfo.log file in the current directory.】**

Note:

View the log: Run the command in the log directory: tail -f loginfo.log [View mining status]

```
miner-mac — tail -f loginfo.log — 80x24
INFO [08-31|16:44:22] VerifyUncles:5947
INFO [08-31|16:44:22] Finalize:5947
INFO [08-31|16:44:22] accumulateInterestRewards          reward=1936807911
97129012
INFO [08-31|16:44:22] VerifyUncles:5948
INFO [08-31|16:44:22] Author:5948
INFO [08-31|16:44:22] Finalize:5948
INFO [08-31|16:44:22] accumulateInterestRewards          reward=1932959099
60482035
INFO [08-31|16:44:22] VerifyUncles:5949
INFO [08-31|16:44:22] Finalize:5949
INFO [08-31|16:44:22] accumulateInterestRewards          reward=1929110287
23835057
INFO [08-31|16:44:22] VerifyUncles:5950
INFO [08-31|16:44:22] Finalize:5950
INFO [08-31|16:44:22] accumulateInterestRewards          reward=1925261474
87188080
INFO [08-31|16:44:22] VerifyUncles:5951
INFO [08-31|16:44:22] Finalize:5951
INFO [08-31|16:44:22] accumulateInterestRewards          reward=1959900786
17010877
INFO [08-31|16:44:22] VerifyUncles:5952
INFO [08-31|16:44:22] Finalize:5952
INFO [08-31|16:44:22] accumulateInterestRewards          reward=1956051973
```

If a restart is needed

Mac system restart go-genaro

1 To the installation directory (installation directory: /home/qian/genaroNetworkTest/)

Run nohup ./go-genaroRestart-Mac > loginfo.log &

Linux system go-genaro installation (same as MAC)

1 Download the installation Address:

<https://genaro-release.oss-cn-hangzhou.aliyuncs.com/miner-linux.zip>

2 Extract the file miner-linux.zip

3 Save the wallet private key as a JSON file or a txt file and save it on your computer safely.

4 modify the configuration file config

Open config, modify the configuration, save, close.

```
{  
    "dir": "/home/qian/genaroNetworkTest/", 【In the "", modify your miner installation directory  
(note that there must be /)】  
    "privatekey":  
"/home/qian/gopath/src/github.com/GenaroNetwork/Genaro-Core/automatedScript/chainNode/c  
hainNode4/keystore/UTC--2018-06-29T08-04-30.680138193Z--dd223f984364ab18c8b4c25cfdcd04  
636946cc7f", 【Modify the private key backup path in "", the private key must be the wallet private  
key to enter the committee node, otherwise you can not get the mining block revenue (backup file  
can be your txt format to save the private key, or backup wallet JSON file format)】  
    "Password": "123456", 【Fill in the mining wallet password】  
    "port": "30315", 【NIC monitoring port, no need to change】  
    "wsport": "8545" 【WS-RPC server monitoring port, no need to change】
```

5 Run `nohup ./go-genaroInstall-linux > loginfo.log &` in the currently downloaded directory (install and start)

If a restart is needed:

Linux system restarts go-genaro

To the installation directory (installation directory/home/qian/genaroNetworkTest/)

Run `nohup ./go-genaroRestart-linux > loginfo.log &`