



**TERA wallet handbook**  
**(draft)**



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## GENERAL REQUIREMENTS

- In order to connect to the network and start synchronization process, you must have a public IP address and an open port 30000 for node communication and http port 80 for wallet (http port is customizable).
- It is possible to use dynamic ip address to set up and run TERA node but we do not recommend as the IP address can be changed any time and your node loses connection and synchronization with TERA network.
- On home networks without direct connection you have to forward the port 30000 to your desired computer in the router settings. For reference please visit <https://portforward.com/>

## INSTALLATION ON UBUNTU 18.4

### Installation steps:

```
Sudo apt-get update
sudo apt-get install -y git
sudo apt-get install -y nodejs
sudo apt-get install -y npm
sudo npm install pm2 -g
sudo git clone https://github.com/terafoundation/wallet.git
cd wallet/Source
sudo npm install
sudo pm2 start run-node.js
```

### Firewall port opening:

```
sudo ufw enable
sudo ufw allow 30000/tcp
sudo ufw allow 80/tcp
```

### Manual update process:

```
cd wallet
sudo git reset --hard
sudo git pull
```

**In order to start wallet open your favorite browser and use 127.0.0.1**



## INSTALLATION ON WINDOWS

### Installation steps:

1. Download and install Nodejs <https://nodejs.org> (v8.11 is recommended)
2. Download and install git <https://git-scm.com/download/win>
3. Then run the commands (in program: cmd or PowerShell as Administrator):

```
git clone https://github.com/terafoundation/wallet.git  
cd wallet/Source  
npm install  
npm install pm2 -g  
pm2 start run-node.js
```

### Firewall port opening

```
netsh advfirewall firewall add rule name="Open 30000 port" protocol=TCP  
localport=30000 action=allow dir=IN
```

### Update

```
cd wallet  
git reset --hard  
git pull
```

**In order to start wallet open your favorite browser and use 127.0.0.1**

**In case of issues with installation please visit our discord server <https://discord.gg/pyBzeF> and ask in appropriate channels. Members are very helpful and supportive and somebody from team if always available.**



## CONFIG TAB

TERA v139

127.0.0.1

CONFIG SEND HISTORY EXPLORER

3 Waiting for synchronization 19.13% (447616/2339639)

4 MINING CPU use: 77 %

5

Saved block: 447616 Current block: 2339647 Time delta:-0.891 sec  
Wallet data path: E:/TERA/wallet-master/Source/./DATA/  
Public key: 02CE52B9F5E28F0A22B66C58E2D6391B383D13B3AECDF371DC1D25D562C987ECC0 6  
Node addr: 4E0C5E26678740BE59FD3D5397C2710FD354B9B4E7270B2FF7DD9B36F46FDECB 7

8 New wallet... 9 Edit wallet 10 New account 11 Set mining 12 Set password

ID	Amount	Currency	Account name	Operation	Adviser

14 NET CONNECT 15 HTTP ACCESS 16 CONSTANTS Style: Blue 18

Core log (from inner server):

```
15:54:01 WRITE DATA Count:600 443417-444016
15:54:04 Start blocks load id=1453 Count=600 FROM: 444017 TO 444616
15:54:04 WRITE DATA Count:600 444017-444616
```

1. Version of the node/wallet
2. IPv4 Loopback Addresses (in case of access over internet your server address)
3. Synchronization Information
4. Turn on/off mining
5. Percentage of CPU to be used for mining
6. Your public Key
7. Your node address
8. Create new wallet (will generate a new pair of Private+Public key)
9. Edit wallet allows you to backup, edit and save your private and public key
10. Create account, each wallet has unlimited number of accounts
11. Here you set to which account should the mining reward be credited
12. Allows you to set password for wallet
13. List of accounts
14. Network connection settings
15. HTTP access to your wallet settings
16. Allows you to update settings for the node
17. Running log
18. Color/style switch



## KEY HANDLING

This screen allows you to save and edit your public and private keys.

The screenshot shows the TERA v139 wallet interface. At the top, there are navigation tabs: CONFIG, SEND, HISTORY, and EXPLORER. A red status message reads "Waiting for synchronization 66.29% (1551616/2340773)". Below this, a green toggle switch is labeled "MINING CPU use: 77 %". Further down, it displays "Saved block: 1551616 Current block: 2340781 Time delta:-0.891 sec" and "Wallet data path: E:/TERA/wallet-master/Source/./DATA/". The public key is shown as "02CE52B9F5E28F0A22B66C58E2D6391B383D13B3AECDF371DC1D25D562C987ECC0" and the node address as "4E0C5E26678740BE59FD3D5397C2710FD354B9B4E7270B2FF7DD9B36F46FDECB". A row of buttons includes "New wallet...", "Edit wallet", "New account", "Set mining", and "Set password". A "Private key" dropdown menu is open, showing a long alphanumeric string. Below the dropdown are "Save" and "Cancel" buttons. A table with columns "ID", "Amount", "Currency", "Account name", "Operation", and "Adviser" is visible. At the bottom, there are "NET CONNECT", "HTTP ACCESS", and "CONSTANTS" buttons, along with a "Style" dropdown set to "Blue".

1. Private/public key drop down menu
2. Field to display the key
3. Save button
4. Cancel button

By inserting a public key and saving you can create a “view wallet”, this is recommended to use on miners and keep private key safe. You need the private key only for sending funds. Once public key is loaded wallet changes color to green

This screenshot shows the same TERA v139 wallet interface, but with a green background. The "Public key (sign from another wallet)" dropdown menu is selected, and the public key "02CE52B9F5E28F0A22B66C58E2D6391B383D13B3AECDF371DC1D25D562C987ECC0" is displayed in the input field. The "Save" and "Cancel" buttons are visible below the input field. The "Style" dropdown is now set to "Green".



## SEND TAB

TERA v139

127.0.0.1

CONFIG SEND HISTORY EXPLORER

Waiting for synchronization 82.13% (1923016/2341333)

From account 1

Pay to 2: 0. System account (950000000.000000000 TERA)

Payee (required) 3

Amount 4 TERA

Description (optional) 5

Clear 6 Edit JSON 7 Send 8

Core log (from inner server):

```
16:22:09 WRITE DATA Count:600 1918817-1919416
16:22:09 Start blocks load id=3914 Count=600 FROM: 1919417 TO 1920016
16:22:09 WRITE DATA Count:600 1919417-1920016
16:22:10 Start blocks load id=3915 Count=600 FROM: 1920017 TO 1920616
16:22:10 WRITE DATA Count:600 1920017-1920616
16:22:14 Start blocks load id=3916 Count=600 FROM: 1920617 TO 1921216
16:22:14 WRITE DATA Count:600 1920617-1921216
16:22:15 Start blocks load id=3917 Count=600 FROM: 1921217 TO 1921816
16:22:17 WRITE DATA Count:600 1921217-1921816
```

1. Source account – allows our to choose from which account you want to send fund(if you have more accouns)
2. Balance on selected account
3. Destination account
4. Amount of TERA to be transferred
5. Description of transaction (free text up to 200 characters)
6. Clear all filled data
7. For advanced users (editing the transaction before sending)
8. Send button



## HISTORY TAB

TERA v139 x

← → ↻ 127.0.0.1

CONFIG SEND **HISTORY** EXPLORER

**Waiting for synchronization 85.68% (2006416/2341689)**

Lost: 196 bytes

<< Prev 40 Next >>

Direct	Confirm	Date	Amount	Currency	Description	From	To	Reference	Block
--------	---------	------	--------	----------	-------------	------	----	-----------	-------

On this tab you can browse the history of transactions on your accounts.





## EXPLORER TAB



1. Opens separate window with statistical data about network
2. Shows graphical representation of running blockchain
3. Opens window with various graphs, hashrate, netpower, health....
4. For advanced users only, console
5. Allows you to browse all accounts created on the network
6. Allows you to browse blocks and transactions
7. Allows you to browse movements on accounts
8. Allows you to browse account hashes
9. Allows you to check blocks, rewrite or truncate blockchain in order to resynchronize



## MISC

### Restart the node

NET CONNECT **1** HTTP ACCESS CONSTANTS

**Network connections:**

Run server and use direct IPv4 address on this computer (recommended):

IP:  Port:

Save Save and Restart **2**

1. Click NET CONNECT button
2. To restart Click Save and Restart

**Utilities:** In order to resynchronize from beginning fill the values as per screenshot and truncate chain

Counters Chains Monitor Console

Accounts Blocks & Tr Accounts acts Accounts hash Utilites **1**

**UTILITES**

Operation with Block number:  **2** -

Rewrite Transactions **3** Check Blocks Truncate chain <!> **4**

1. Access utilities
2. Enter block height (1 for full resynchronization from genesis block)
3. Rewrite transactions (1<sup>st</sup> solution to fix sync issues)
4. Truncate the chain (resynchronization of blocks)