Nyerium Hot Cold Masternode Guide

Overview

These are the steps to setup a secure and sager cold node: a masternode on a VPS and a local wallet with your coins in your Windows or Linux wallet "hot node".

Prerequisites

1. **VPS:** A Virtual Private Server with a dedicated IP address is required. This guide will only cover how to set up a Linux VPS. You can rent a VPS from one of these companies or another of your choosing :

   - Vultr   ● Hetzner
   - Time4VPS   ● **Digital Ocean**

   This guide works with DigitalOcean (you could use our referral https://m.do.co/c/341748ede7b5)

2. **25,000 NYEX Collateral:** requirement. Exact amount to receive in masternore wallet. Be careful about **transaction fee**. Be Careful with fee. Total to receive should be 25,000 (you should include fees when sending).

3. **A local wallet:** This wallet can be windows or linux. 25,000 NYEX should be kept there.

4. **PuTTY**: https://www.putty.org/
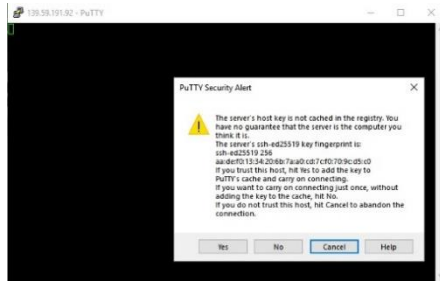
Setup Masternode

1. Run SSH (Putty) and connect to VPS

   - Open Putty and put your VPS IP address and save it (Enter Name and click Save).
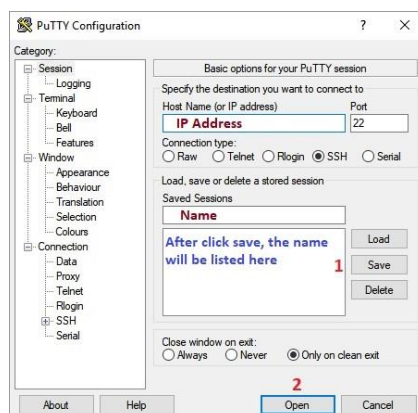
   - Click "Open".

- For the first time, a pop-up message will warn about security. Click Yes.

- Log in to your VPS. Username and password supplied by VPS provider. DigitalOcean sends by Email.

2. Download and install Nyerium

1.	sudo apt-get update
2.	sudo apt-get upgrade
3.	sudo apt-get dist-upgrade
4.	sudo apt-get install nano git
5.	sudo apt-get install build-essential libtool autotools-dev automake pkg-config
6.	sudo apt-get install libssl-dev libevent-dev bsdmainutils software-properties-common
7.	sudo apt-get install libboost-all-dev
8.	sudo apt-get install libzmq3-dev libminiupnpc-dev libssl-dev libevent-dev
9.	sudo add-apt-repository ppa:bitcoin/bitcoin
10.	sudo apt-get update
11.	sudo apt-get install libdb4.8-dev libdb4.8++-dev
12.	wget -qO- https://github.com/nyerium-core/nyerium/releases/download/v1.0.3/nyerium-1.0.3-x64-linux-tar.gz | sudo tar xvz -C /usr/local/bin/
13.	mkdir .nyerium
14.	sudo nano .nyerium/nyerium.conf

3. Copy and paste the following (**Right Click** = paste):

Add rpcuser & rpcpassword

```
rpcuser=YOUR_NYERIUM_USER
rpcpassword=YOUR_NYERIUM_PASSWORD
rpcport=57419
rpcallowip=127.0.0.1
rpcconnect=127.0.0.1
rpcbind=127.0.0.1
maxconnections=216
listen=1
daemon=1
externalip=167.99.94.204:57418
masternodeaddr=167.99.94.204:57418
```
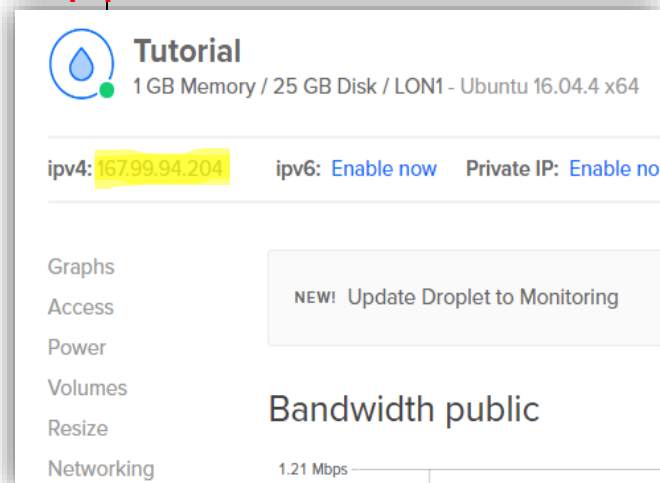

Replace highlighted by your username, password and VPS IP address.

Press CTRL + X and then Y (to confirm changes) and Enter

To test that all is fine

```
nyeriumd -daemon
```

To see coin information

```
nyerium-cli getinfo
```
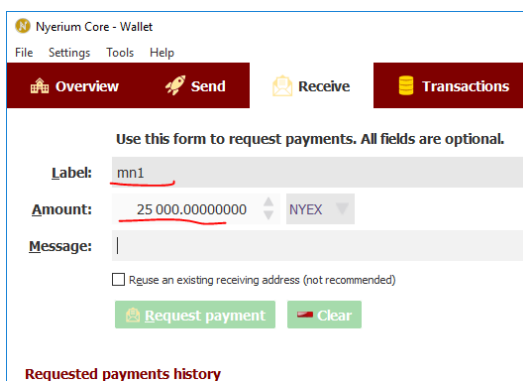


```
{
    "version" : 1000300,
    "protocolversion" : 70003,
    "walletversion" : 61000,
    "balance" : 0.00000000,
    "zerocoinbalance" : 0.00000000,
    "blocks" : 99461,
    "timeoffset" : 0,
    "connections" : 21,
    "proxy" : "",
    "difficulty" : 18348.08658615,
    "testnet" : false,
    "moneysupply" : 19735913.30545820,
    "zNYEXsupply" : {
        "1" : 0.00000000,
        "5" : 0.00000000,
        "10" : 0.00000000,
        "50" : 0.00000000,
        "100" : 0.00000000,
        "500" : 0.00000000,
```

To stop the coin

```
nyerium-cli stop
```

4. Send **25,000** NYEX to your local address, generate private key and transaction hash

- Go to Receive page in Nyerium Core – Wallet.
- Create new address in local wallet (not VPS) with label "MN1".
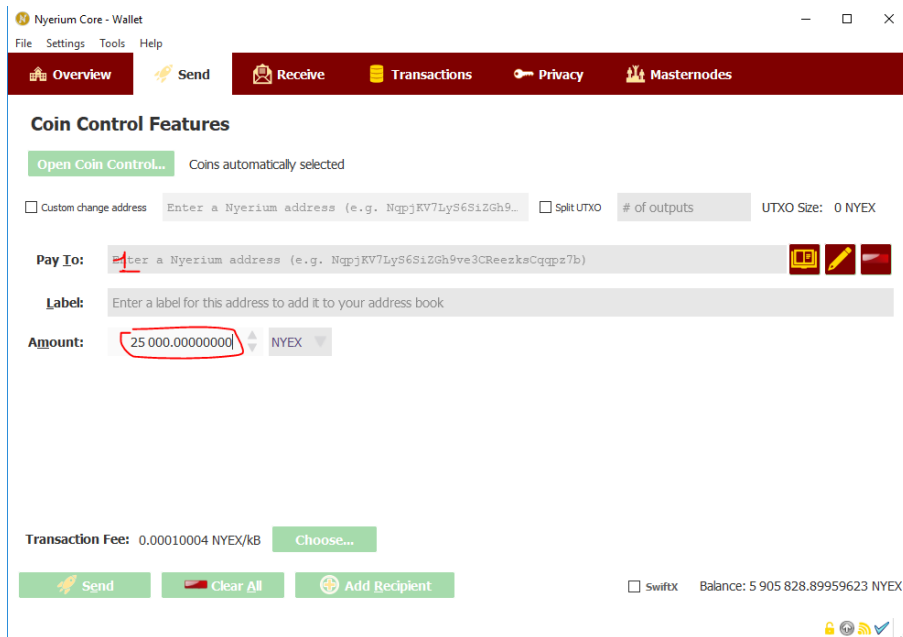- Click Request payment to get a new address.
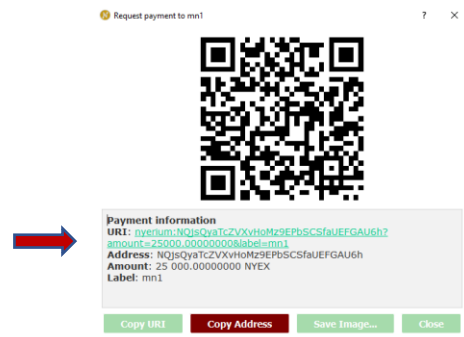
Click "Copy Address"

- Go to Send page in Nyerium Core – Wallet.

- Send EXACTLY 25,000 NYEX to that address. No more, no less. Pay attention to transaction fee.

- Wait for at least 1 confirmation to be able to get a transaction hash and id.

- Still in local wallet (not VPS), open the Debug Console (Tools>Debug Console) and type:

```
masternode genkey
```

- The outputs will look like this:
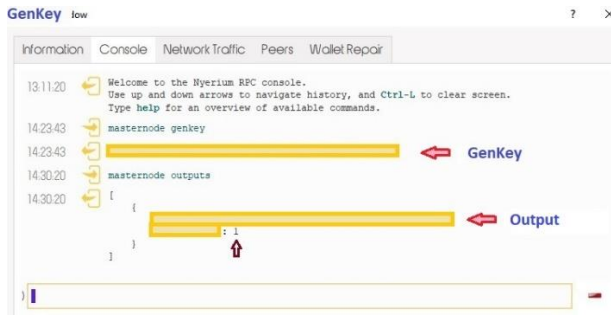
8877kPMe3ASberwe9UyhUiekFLfKzwKid9QafdJ63dZNyza39nCNca
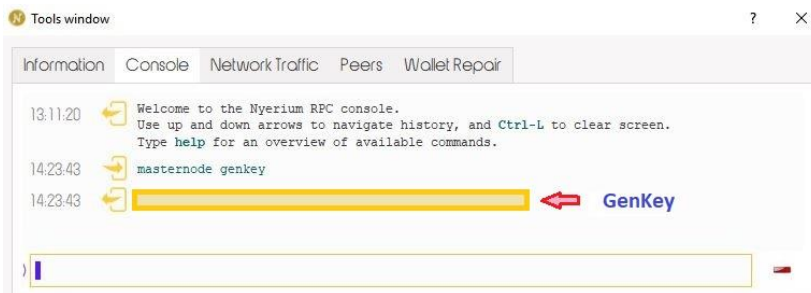
- Save it for later

- Then type:

```
masternode outputs
```

bcdjd0ac33fdf2e75894143b205f8a6518a8b0ab37c3848ad0b5bad8f1dffd7d 0

- Save this output, we will need it later. The green part is sometimes 1 instead of 0, as the Image below:
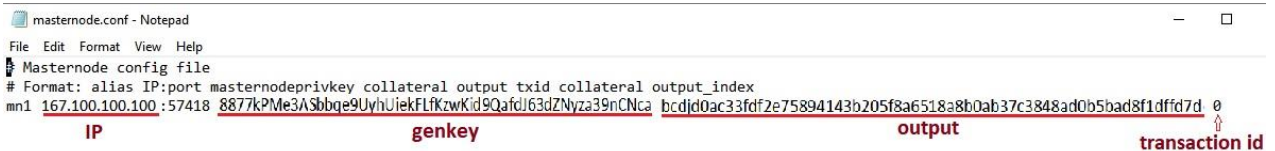
- Open your masternode configuration file (Tools -> Open Masternode Configuration File):

Note: The window on the left will appear only when your notepad is not associated to text files. Only on newly installed computers.

Enter IP, masternode genkey, output result and transaction id, as with the example below.

- Save and close the file.
- Shutdown your local Nyerium wallet and then re-open it.

5. Finish setting up VPS

- Login to VPS using Putty and type:

```
sudo nano .nyerium/nyerium.conf
```

- Then Paste these 2 lines at the bottom of the config file:

  masternode=1
  masternodeprivkey=YOUR_PRIVATE_KEY
- Replace YOUR_PRIVATE_KEY with your actual key (generated with "**masternode genkey**" earlier
- Hit **Ctrl+X**, then **Y** and press **Enter**.

Masternode Config should look like this:

```
rpcuser=nyeriumuser
rpcpassword=nyeriumverycomplexpassword
rpcport=57419
rpcallowip=127.0.0.1
rpcconnect=127.0.0.1
rpcbind=127.0.0.1
maxconnections=216
listen=1
daemon=1
externalip=YOUR_VPS_IP:57418
masternodeaddr=YOUR_VPS_IP:57418
masternode=1
masternodeprivkey=YOUR_PRIVATE_KEY

^G Get Help    ^O Write Out   ^W Where Is   ^K Cut
^X Exit        ^R Read File   ^\ Replace    ^U Uncu
```
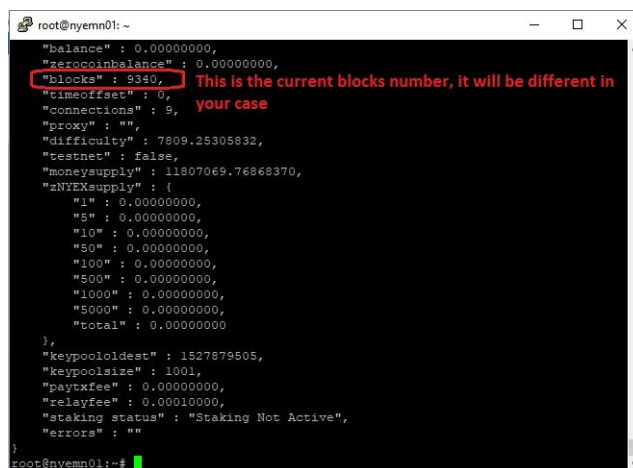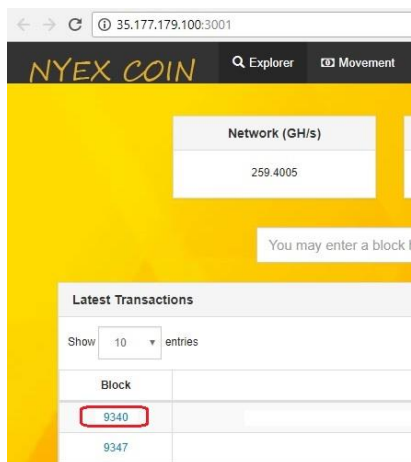
- Type this command and then hit enter:

```
nyeriumd -daemon
```

- Wait for the wallet to sync fully.

```
nyerium-cli getinfo
```

- The number of "blocks" should match that of the latest block shown in the Nyerium Explorer:

  http://167.99.200.1:3001/

- Once it is fully synced, move back to your local wallet (NOT the VPS).

6. Starting the Masternode

- In your local Nyerium wallet, navigate to the "**Masternodes**" tab
- You should see **MN1** in the "Your Masternodes" tab.
- Open the console with Tools -> Debug Console
- Type **startmasternode alias false MN1**
- You should see "Successfully started MN1"

- Congrats, your Masternode is running! Your first reward will be received within 24 hours.

- Confirm it by looking up your wallet address here http://167.99.200.1:3001/masternodes

- If you find it, you are really set. Otherwise, contact support NyeriumDev in discord or scan the QR Code below.

Some Nyerium Commands:

Start wallet	**nyeriumd -daemon**
Get info on wallet	**nyerium-cli getinfo**
Stop wallet	**nyerium-cli stop**
Get masternode status	**nyerium-cli masternode status**
Generate a new address	**nyerium-cli getnewaddress**

Scan QR code for more information!