EDEN Cold + Hot wallet MasterNode setup guide

What you need first:

- Windows 10 installed and secured PC that your Windows wallet running (This will be your Cold wallet) – This could be your PC that you hold other coins wallets.
- Ubuntu 16.04 running on a VPS such as Vultr, or other server (This will be your Hot wallet) running 24/7
- Static IP Address
- Port 3595 port forwarded from your router to your Ubuntu server
- Putty software (that allows you to copy and paste work on the terminal)
- And 2501 Eden coins.

Part 1 : Local Wallet Setup

1. Installing Qt Wallet on your windows 10 PC.

– This is the wallet where the MasterNode collateral of 2500 Eden coins will have to be transferred and stored. After the setup is complete, this wallet doesn't have to run 24/7 and will be the one receiving the rewards.

i. Download the newest Eden wallet from https://gitlab.com/edenresearch/releases

ii. Extract it and run eden-qt.exe

- If this is the first time you have started the wallet, you will be asked to enter a custom data directory. You can leave this default or change it to a directory that you want.

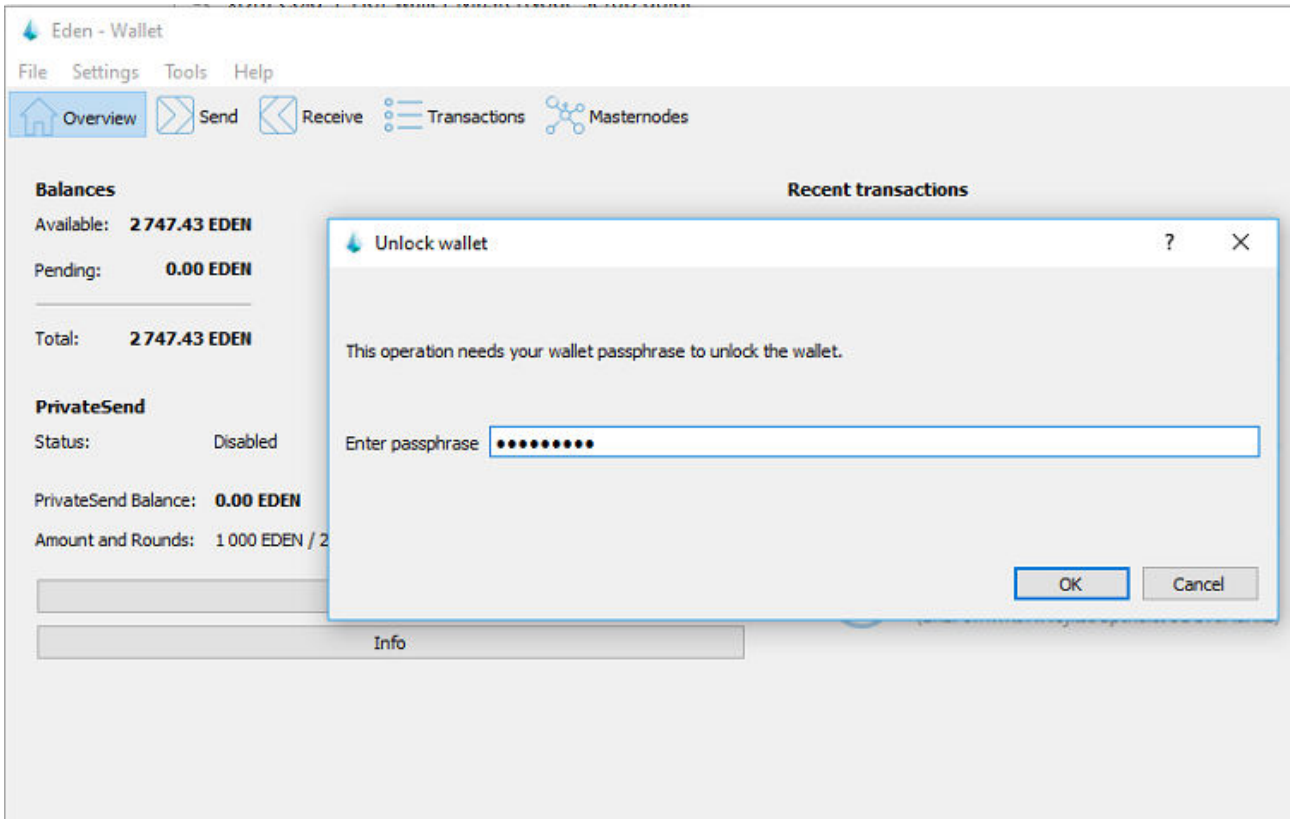
- If this is the first time you have started the wallet, you will be asked to Allow Access by the firewall, click Allow access.

- Let the wallet sync until you see the checkmark symbol in the lower right corner.

iii. Encrypt your wallet with a long passphrase and either save it in a password manager such as keepass, or write it down and keep it safe (in a locked compartment or safe) (recommended). This passphrase is your only key to your wallet, do NOT lose it or you will lose all your Eden coins. Do not let anyone steal your passcode or wallet either, just like in real life!

- And do not let anyone to enter your pc using Teamviewer software to help you for setting up your MN.

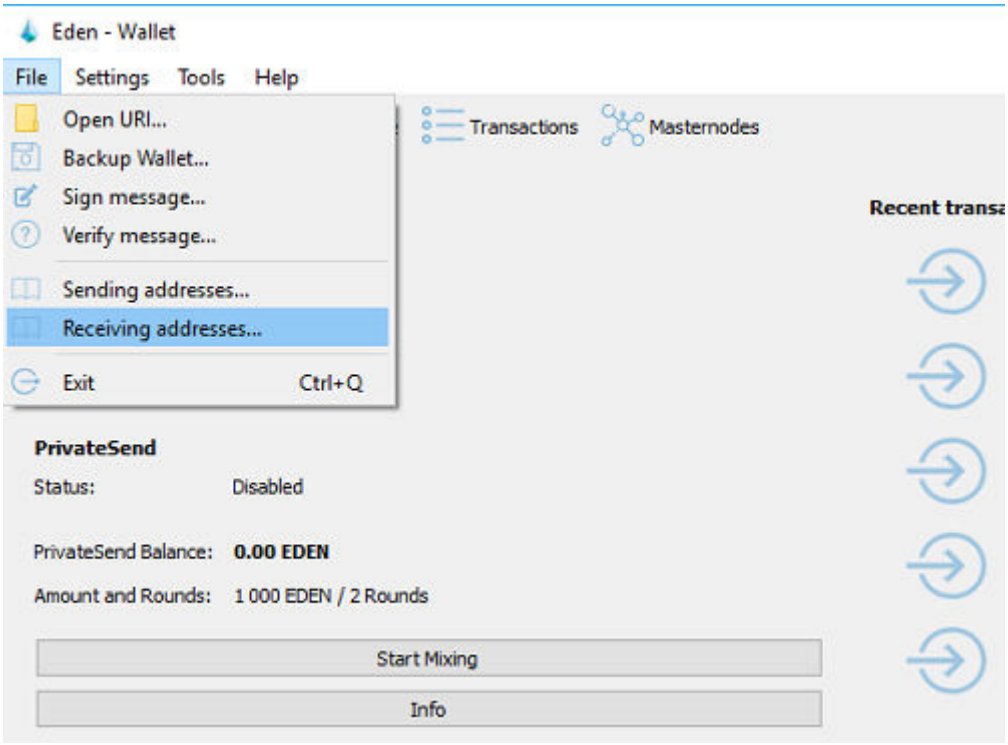
- To encrypt the wallet, go to Settings > Encrypt wallet. Enter the passphrase, click ok. You will then have to restart the wallet and then go to Settings > Unlock Wallet and then enter the passphrase to unlock the wallet, for staking, controlling the masternode or sending your Eden coins.



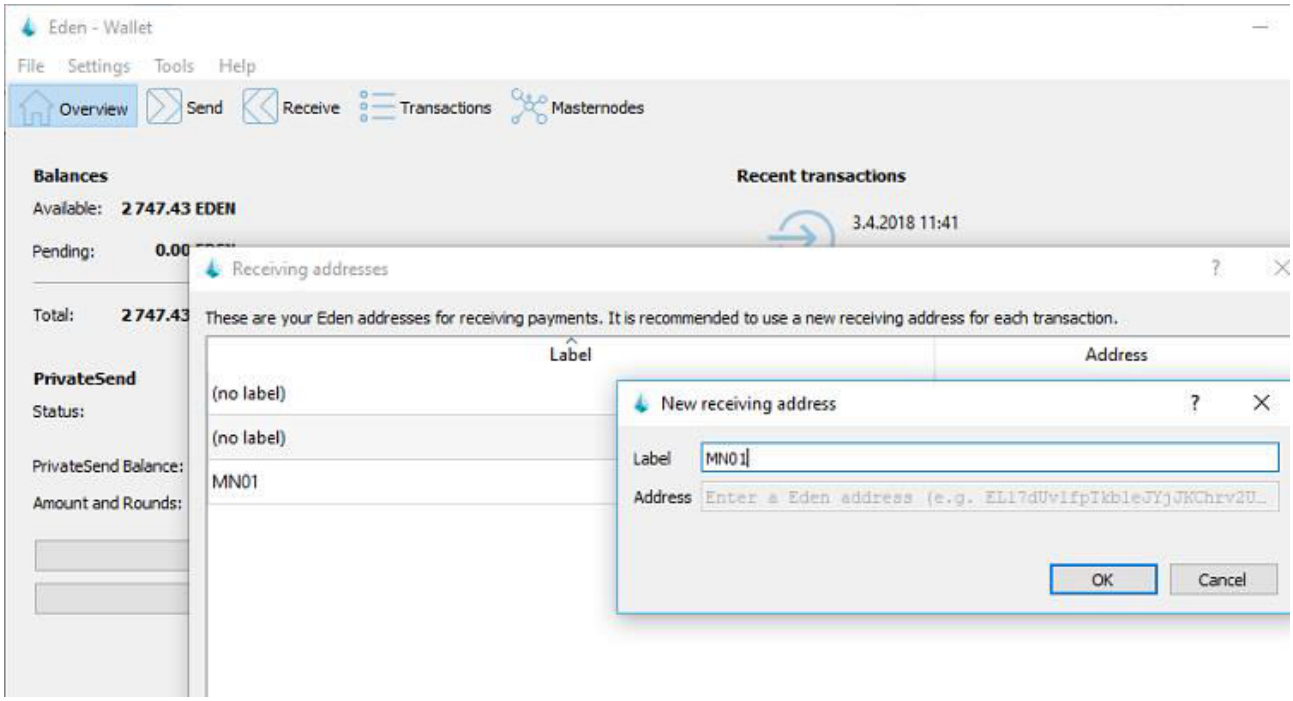
iv. Back up your wallet.dat in case of a mistake as soon as you encrypt your wallet. Once you have encrypted the wallet, your previous backups will not work, so back it up by going to File > Backup Wallet and save the backup to more than one place. Such as a USB key or a network share. I recommend keeping your wallet and passphrase seperate so that no one can steal both. They would need both to do anything to your wallet.

2. Create a receiving address for the Masternode collateral funds.

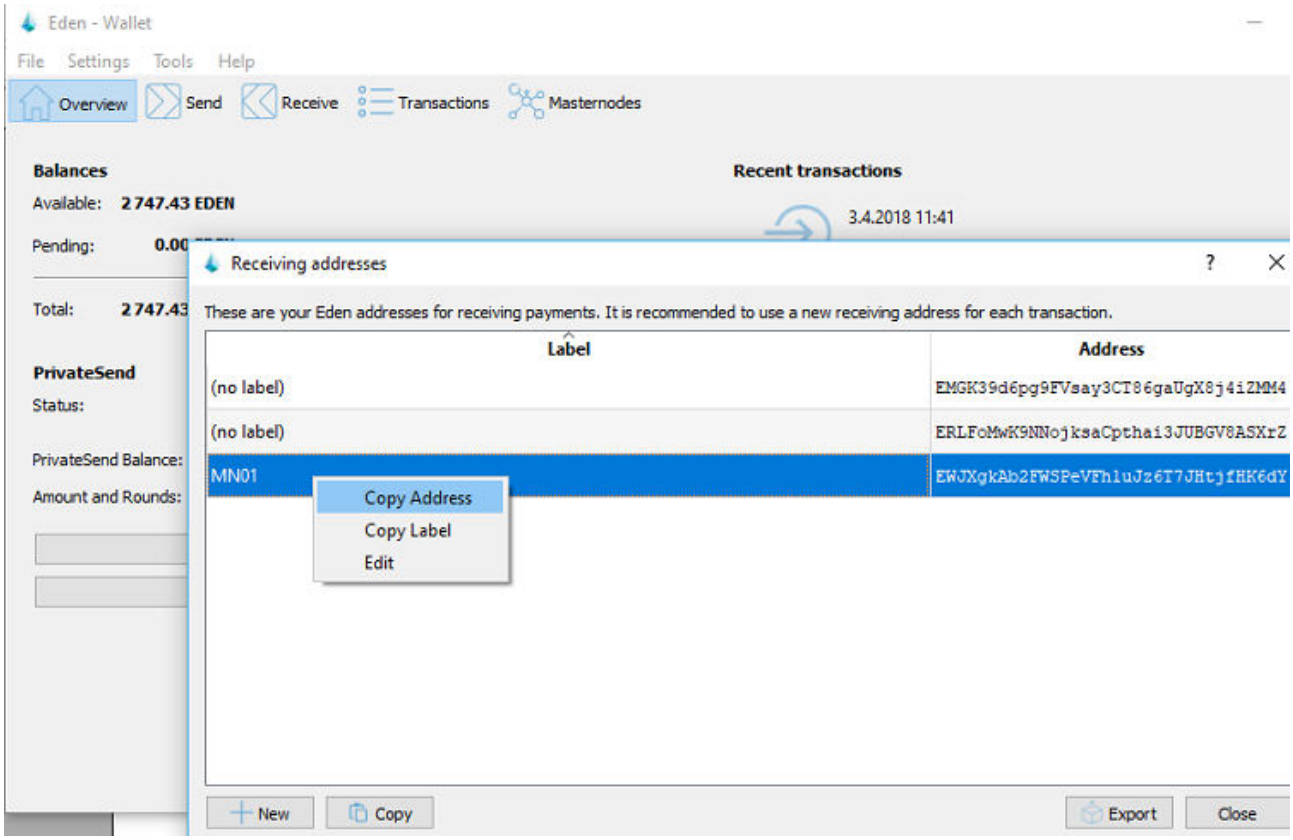
Go to File -> Receiving addresses...



Click **New**, type in a label (e.g. MN01) and press **Ok**.

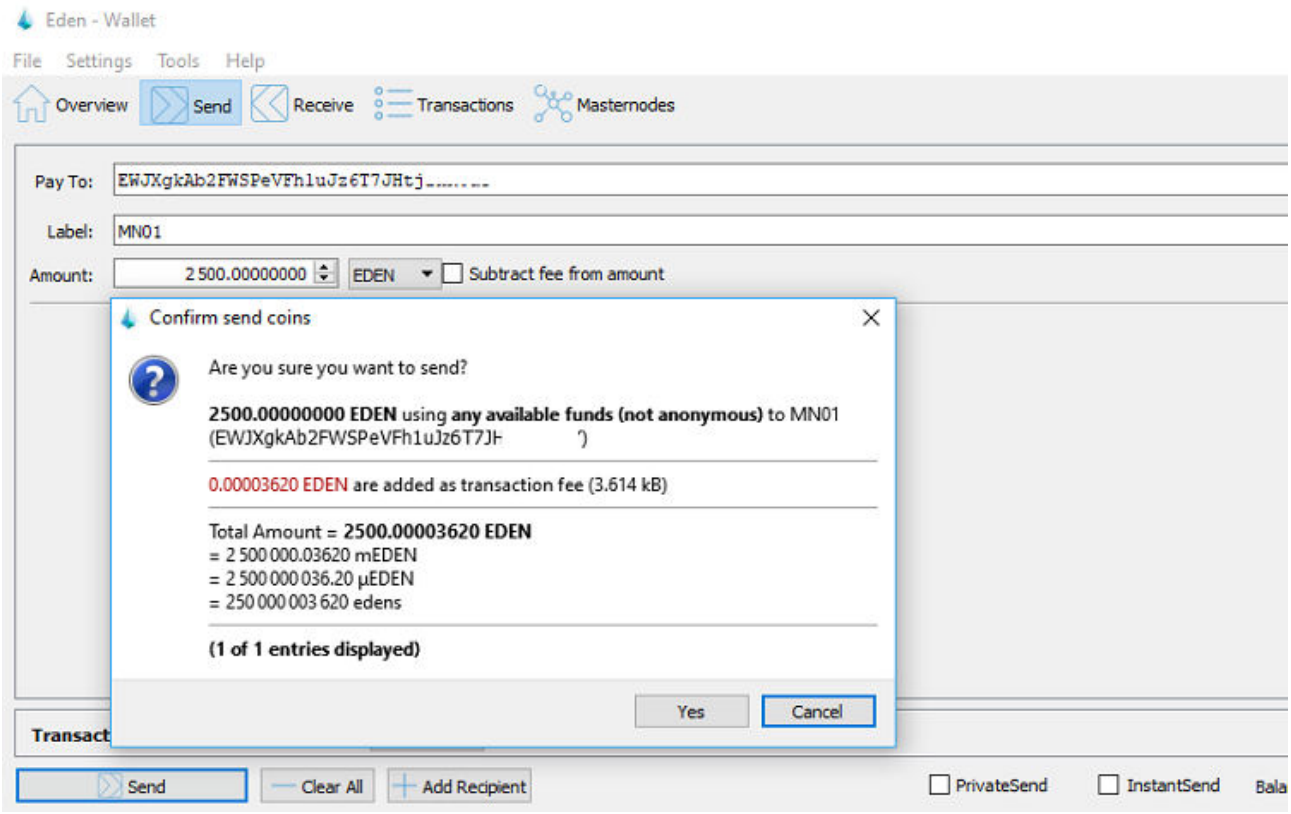


3. Select the row of the newly added address and click Copy to store the destination address in the clipboard.

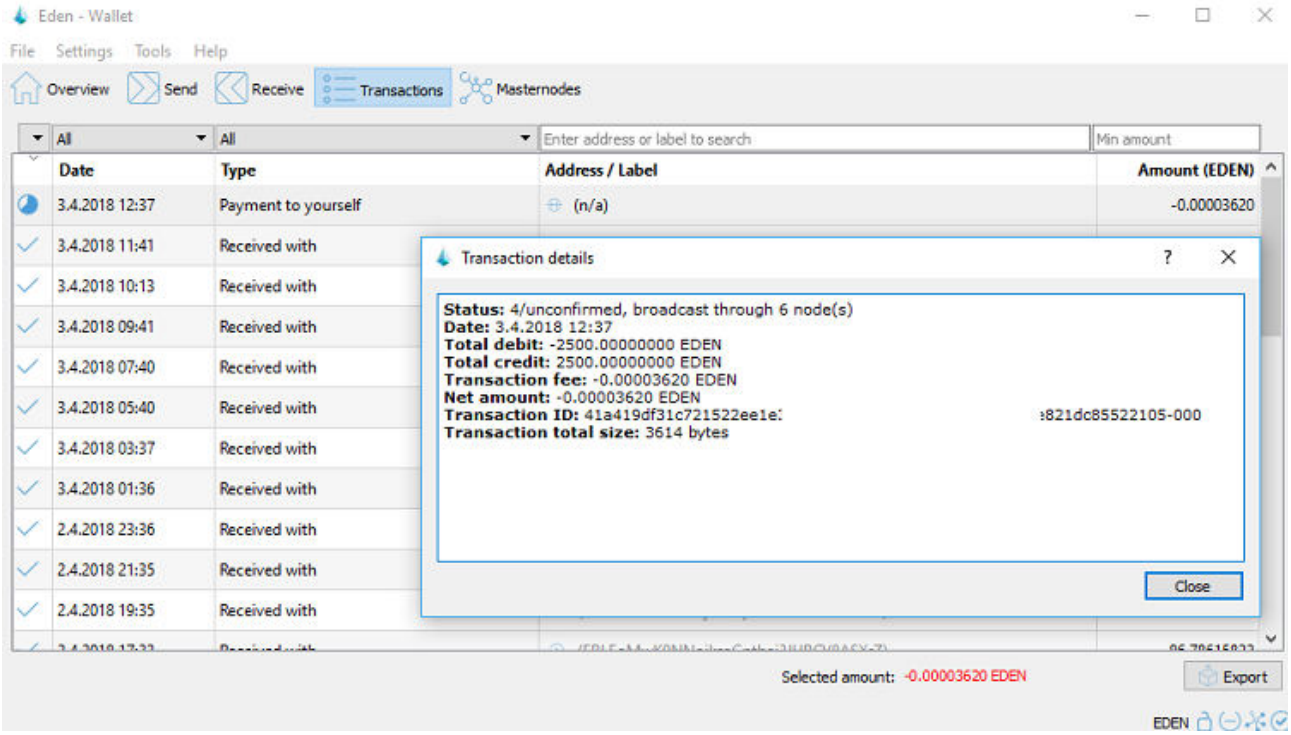


4. Send exactly 2500 Eden coins to the address you just copied. Double check you've got the correct addresse before transferring the funds.

Send just 2500 not more or less. And dont click "Substract fee from amount"

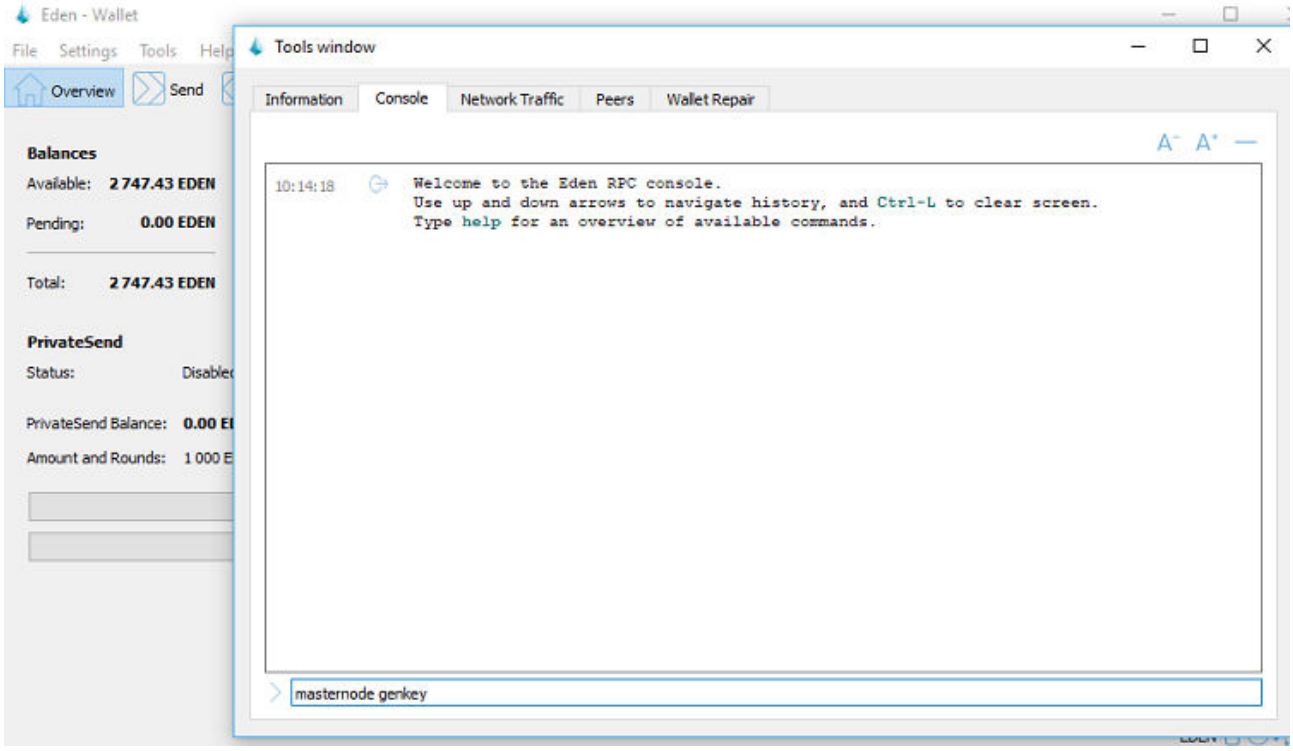


After sending, you can verify the balance in the Transactions tab. This can take a few minutes to be confirmed by the network.



5. Open the debug console of the wallet in order to type a few commands.

Go to Tools -> Debug console



6. Run the following command: masternode genkey

You should see a long key that looks like:

FS8xs36kSYZ9hVmcvY9q7YCn7EGKjCVn4zCqTrcV1cGTrMTKrb5X

We will use this later on both cold and hot wallets.

- You have to sure about your 2500 Eden transfer is needed at least 15 confirmations ! When you sure pass the next step.

7. Run masternode outputs command to retrieve the transaction ID of the collateral transfer.

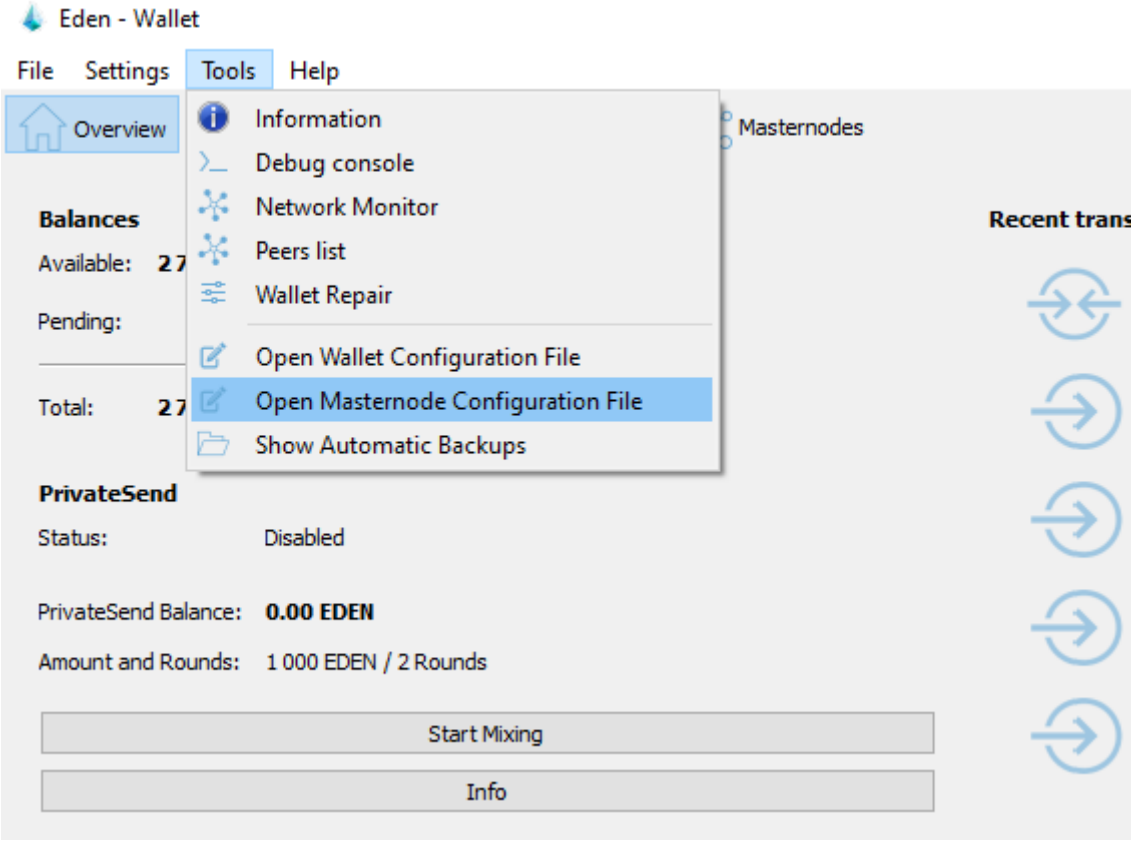
You should see an output that looks like this:

```
{
  "F8a4456df31c721522rg1e3fX672bf96zn42cc2f88cb9fa1e4R5Le821dc855R6y86": "1"
}
```

Both txhash and outputidx will be used in the next step. outputidx can be 0 or 1, both are

valid values

8. Go to Tools -> Open Masternode Configuration File and add a line in the newly opened masternode.conf file.



You will see there an example of what you need in masternode.conf. Ignore any example text that may already be in there that contains a '#' in front of each line, that is just an example to help you. Read it if it helps.

mn1 127.0.0.2:3595
73HaYBVUCYjEMeeH1Y4sBGLALQZE1Yc1K64xiqgX37tGBDQL8Xg
2bcd3c84c84f87eaa86e4e56834c92927a07f9e18718810b92e0d0324456a67c 0

- mn1 : Masternode alias you may put here any name
- 127.0.0.2 : is the external IP of the masternode server that will provide services to the network.
- 3595 : MN port
- 73HaYBVUCYjEMeeH1Y4sBGLALQZE1Yc1K64xiqgX37tGBDQL8Xg : is your masternode key from `masternode genkey`
- 2bcd3c84c84f87eaa86e4e56834c92927a07f9e18718810b92e0d0324456a67c : is your txhash from `masternode outputs`.
- 0 : is your outputidx from `masternode outputs`.

Now you chage these with your values. You can input VPS IP after completing Part 2.

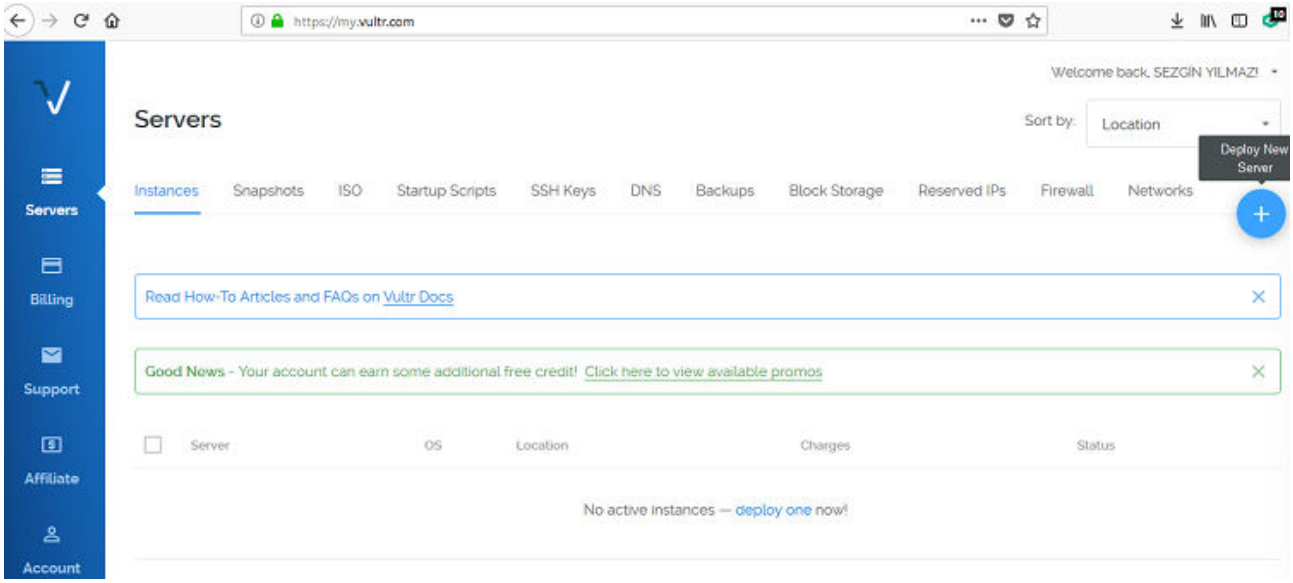
Part 2: VPS Setup

This will run 24/7 and provide services to the network via TCP port 5500 for which it will be rewarded with coins. It will run with an empty wallet reducing the risk of loosing the funds in the event of an attack.

1. Get a VPS server from a provider like Vultr, DigitalOcean, Linode, Amazon AWS, etc.

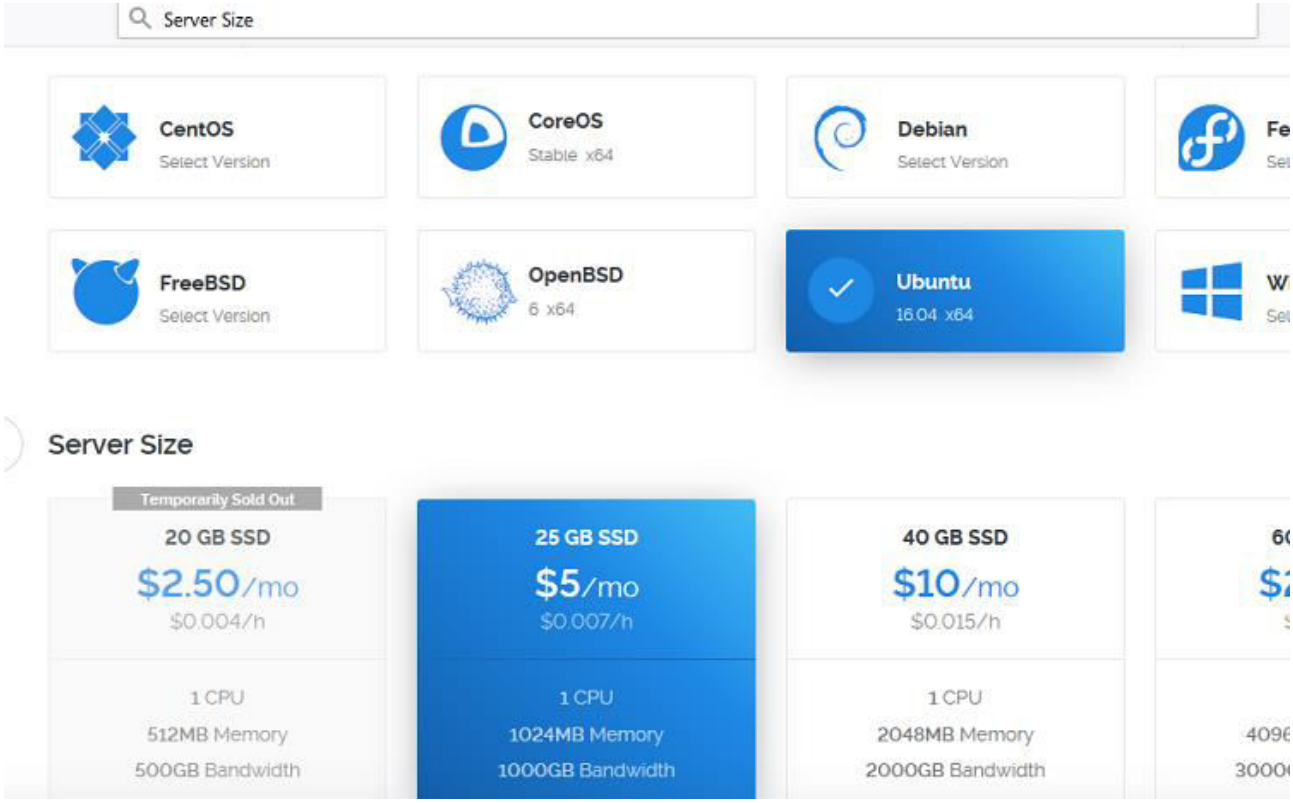
We will continue with vultr.

- Register https://my.vultr.com/
- After login click "Deploy New Server" right side of the page.

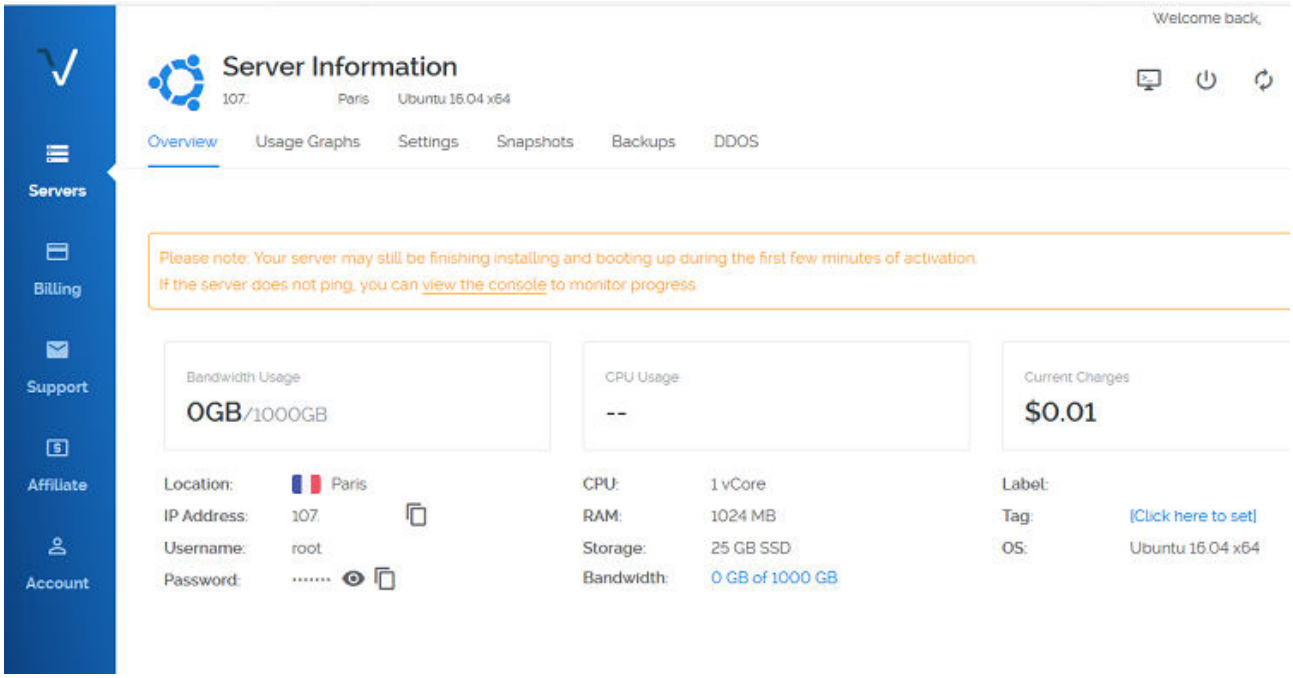


- Choose Server Location which is near you.
- **Server Type** : Choose Ubuntu 16.04 x64
- **Server Size** : Choose $5/month plan
- **Additional Features** : click Enable IPv6
- Startup Script : Leave empty
- SSH Keys: Leave empty
- **Server Hostname & Label** : Write here whatever you want. Example Eden.

Now click "depolay now".

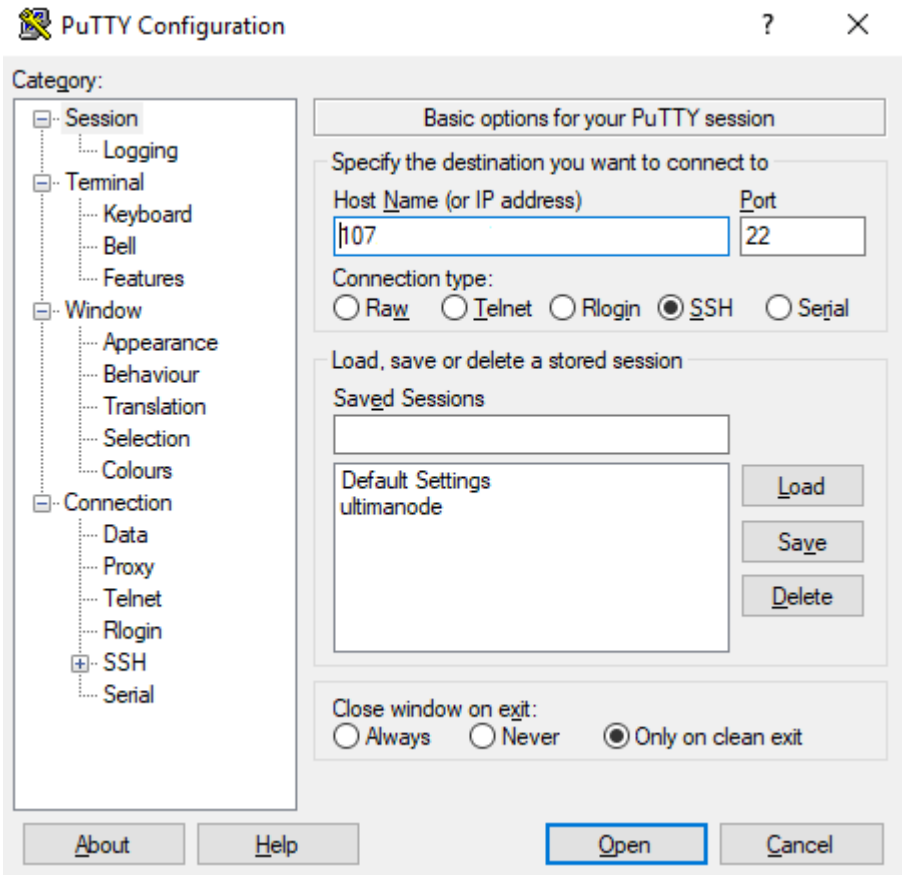


- Now it is installing and eill give you a static IP addresse.
- When istallation complete click Manage. And you will see a screen like this.

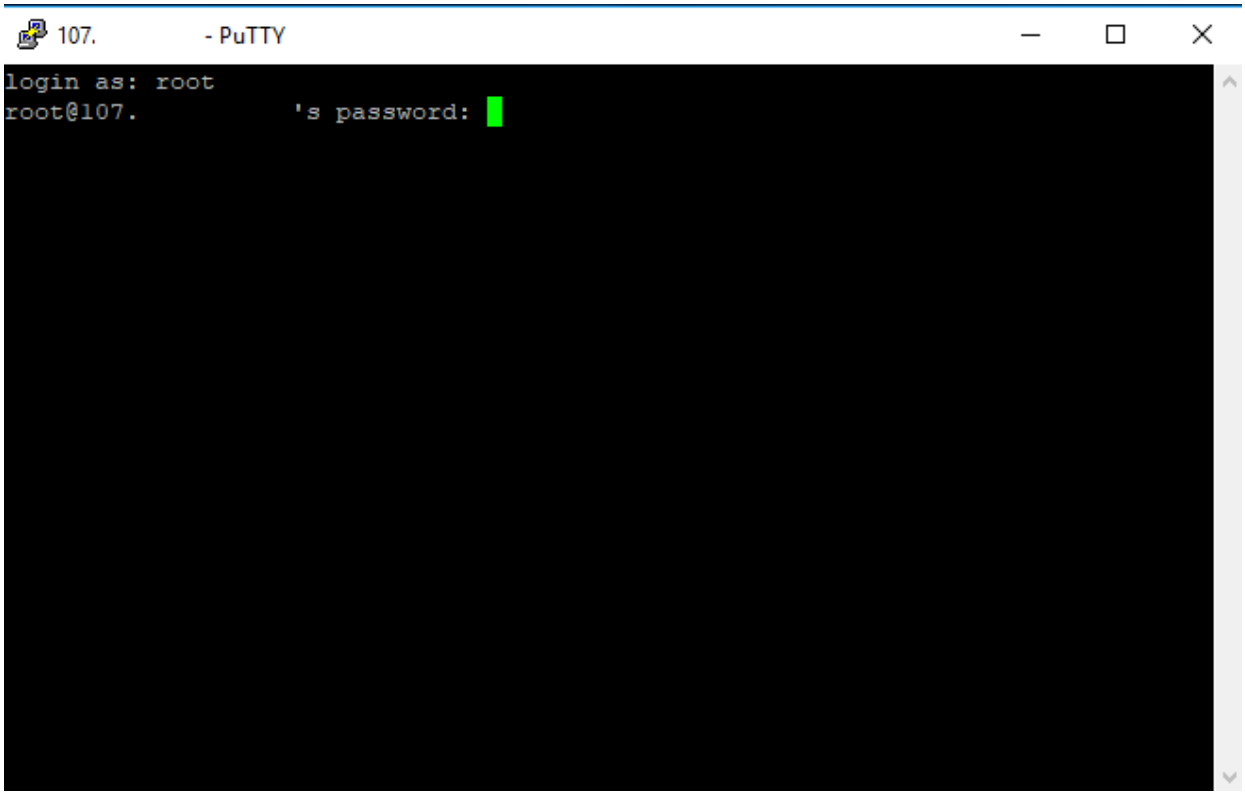


2. Login via SSH into the server using PuTTY software and type the following command in the console:

- If you are using Windows, PuTTY is a very good SSH client that you can use to connect to a remote Linux server. If you are running a VPS from Vultr or similar, you need to use SSH such as putty if you want to copy and paste these commands otherwise you will have to type them all out!
- Download PuTTY here: https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html
- Open it and enter your VSP IP addresse



- when you enter IP addresse and click Open. Then on the terminal enter Username (it is root as default now – you can change it later if you want)
- now it will ask your password. Copy it on VPS server page and "Right click" to paste it on the PuTTY terminal.



- Now you are in.

- **Update and Install new packages by running these six commands line by line *ONE* by *ONE*:**

```
1. sudo apt-get update
2. sudo apt-get upgrade -y
3. sudo apt-get install wget nano unrar unzip libboost-all-dev
libevent-dev   software-properties-common -y
4. sudo add-apt-repository ppa:bitcoin/bitcoin -y
5. sudo apt-get update
6. sudo apt-get install libdb4.8-dev libdb4.8++-dev -y
```

- **Configure swap to avoid running out of memory:**

```
1. sudo fallocate -l 1500M /mnt/1500MB.swap
2. sudo dd if=/dev/zero of=/mnt/1500MB.swap bs=1024 count=1572864
3. sudo mkswap /mnt/1500MB.swap
4. sudo swapon /mnt/1500MB.swap
5. sudo chmod 600 /mnt/1500MB.swap
6. sudo echo '/mnt/1500MB.swap  none  swap  sw 0  0' >> /etc/fstab
```

- Allow the MasterNode p2p communication port through the OS firewall:

```
1. sudo ufw allow 22/tcp
2. sudo ufw limit 22/tcp
3. sudo ufw allow 3595/tcp
4. sudo ufw logging on
5. sudo ufw --force enable
```

- Install the Eden wallet.

Always download the latest https://gitlab.com/edenresearch/releases.

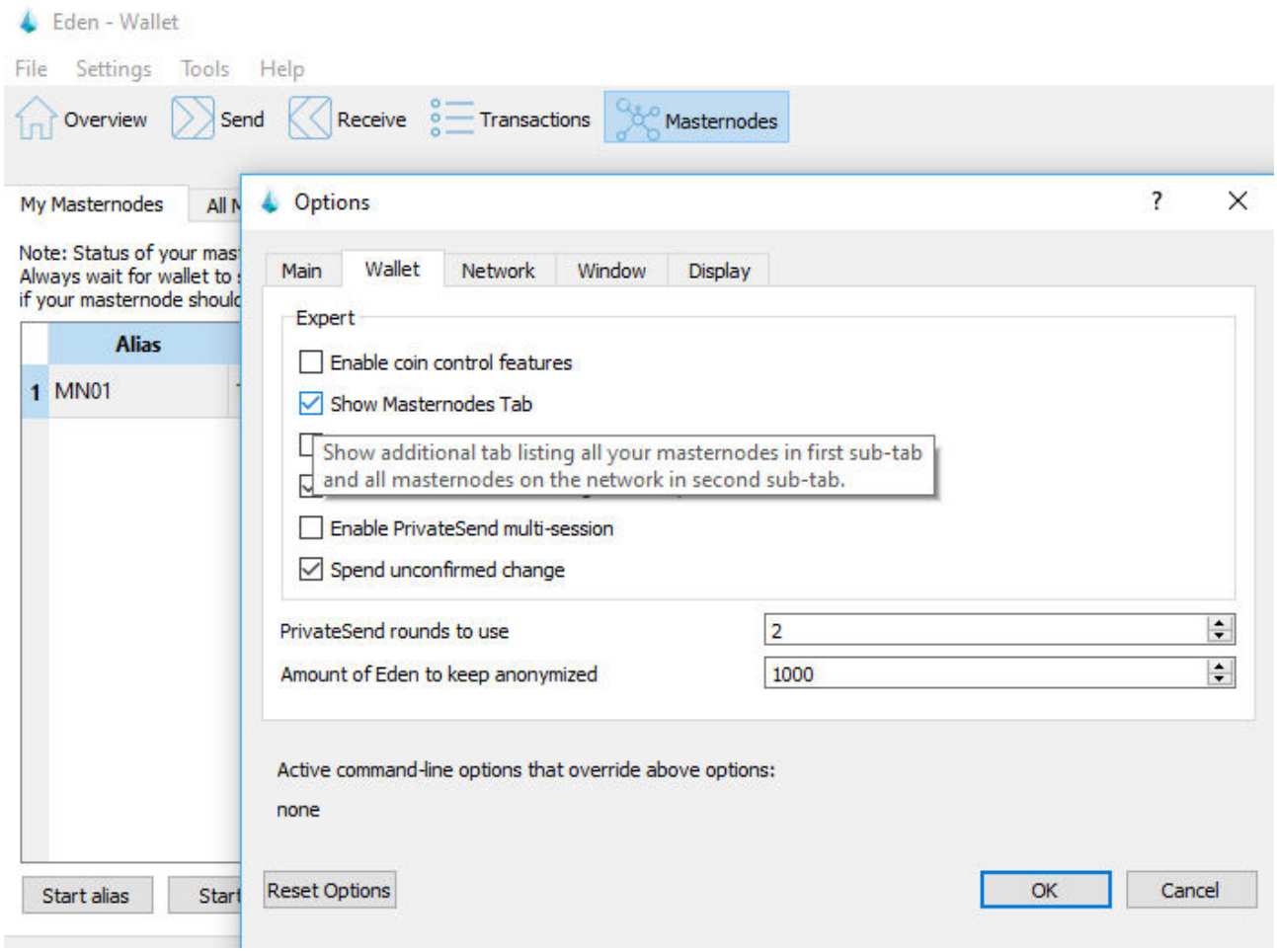
The file will be Eden-v1.0.0.1-ubuntu16.tar.xz Next, unpack it.

Run the following commands

```
1.sudo apt-get install libzmq3-dev libminiupnpc-dev -y
2. wget
https://gitlab.com/edenresearch/releases/blob/master/Linux/Eden-
v1.0.0.1-ubuntu16.tar.xz

3. xz -d Eden-v1.0.0.1-ubuntu16.tar.xz

4. tar -xvf Eden-v1.0.0.1-ubuntu16.tar

5. rm  Eden-v1.0.0.1-ubuntu16.tar.xz

6. chmod +x ./Eden-v1.0.0.1-ubuntu16/edend

6. mv Eden-v1.0.0.1-ubuntu16/ .eden

7. cd .eden

8. ./edend

9. apt-get install joe

10. ./edend -daemon

11. nano ~/.eden/eden.conf

rpcuser=<alphanumeric_rpc_username>
rpcpassword=<alphanumeric_rpc_password>
rpcport=18054
listen=1
server=1
daemon=1
maxconnections=250
masternode=1
externalip=<ip_address_here>:18053
masternodeaddr=<ip_address_here>:18053
masternodeprivkey=<the_colw_wallet_genkey_value_here>
```

3. Start your MN

- Show MN Tab: In your local wallet go to Settings > Options > Wallet click "Show Masternode Tab".



- Go to Masternodes tab and start your MN.