

# 01coin masternode setup guide

## Prerequisites

- A QT wallet running on your local machine with at least 1000 01 + enough for a transaction fee.
- A Linux Ubuntu 16.04 VPS (Virtual Private Server) or another version, the source is on Github and you can compile it yourself.

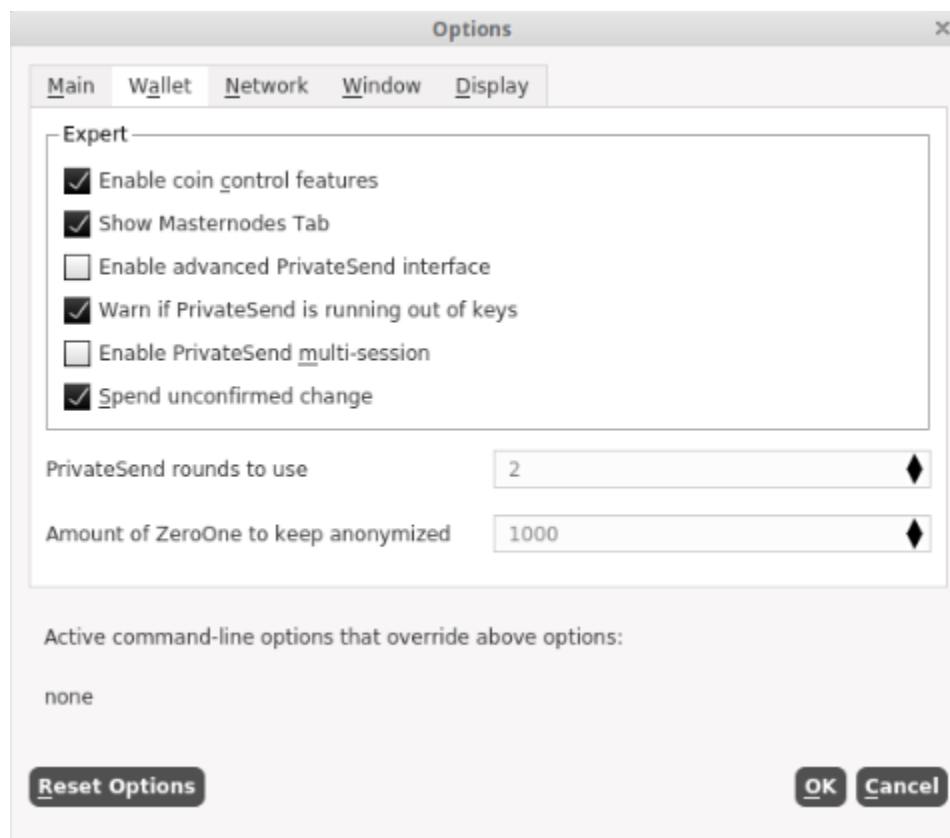
## Vps

I use Vultr <https://www.vultr.com/?ref=7383922> but any of your other favourite providers work! You only need what is typically the smallest VPS so 1 CPU, >512MB RAM, 20GB storage and 1TB bandwidth will be plenty.

Rent the server, follow the instructions from your provider to get the OS installed then make a note of the **IP address** , **username** and **password** for the server

## Wallet Setup Steps

At the QT wallet (i.e. the 01 wallet on your local computer) first make sure your masternode tab is showing and coin control is enabled. Go to Settings -> Options -> Wallet and tick the “*show masternodes tab*” checkbox and the “*Enable coin control features*” checkbox, click ok and then restart the wallet. When it opens up again you will have a new tab to the right of transactions called *masternodes*.



## Create a collateral for masternode

Now create the collateral address for your masternode - this is where your coins for the masternode will be stored.

Click the *Receive* tab then enter a label - can be whatever you like - but i start with Masternode1 in case i get more than one up! Everything else can be left blank and then press “request payment” then click “copy address” and then “close”.

The screenshot shows the ZeroOne Core - W interface with the 'Receive' tab selected. The 'Request payment to Masternode1' dialog box is open, displaying a QR code and payment information. The payment information includes the URI, amount (1000.00000000), label (Masternode1), address (ZOifssomikDN1kEuXFNbFLTKSL5s296Hpx), and label (Masternode1). The dialog box also has buttons for 'Copy URI', 'Copy Address', 'Save Image...', and 'Close'.

ZeroOne Core - W

File Settings Tools Help

Overview Send Receive Transactions Masternode

Use this form to request payments. All fields are **optional**.

Label: Masternode1

Amount: [dropdown] ZOC [dropdown]

Message:

☐ Reuse an existing receiving address (not recommended)

☐ Request InstantSend

Request payment Clear

Requested payments history

**Request payment to Masternode1**

**Payment information**

URI: <zeroone:ZOifssomikDN1kEuXFNbFLTKSL5s296Hpx?amount=1000.00000000&label=Masternode1>

Address: ZOifssomikDN1kEuXFNbFLTKSL5s296Hpx

Label: Masternode1

InstantSend: No

Copy URI Copy Address Save Image... Close

Now send the coins to your newly created collateral address.

Click the *Send* tab, paste the address you just copied into the “pay to” box and the label you created for it will appear in the label box underneath for check. Type 1000 into the amount box and make sure the “subtract fee from amount” checkbox is **not checked** as you need exactly 1000 going to this address in exactly one transaction.

Then click send, type in your password as required and confirm the send. You can check this has worked by clicking the “inputs” button on the send tab and you should see you labeled address there will 1000 in it. Now we need to wait for 15 confirms on this transaction.

The screenshot shows the 'Send' tab in the ZeroOne Core - Wallet application. The interface includes a menu bar (File, Settings, Tools, Help) and a toolbar with buttons for Overview, Send, Receive, Transactions, and Masternodes. Below the toolbar, the 'Coin Control Features' section is visible, with an 'Inputs...' button and a note 'automatically selected'. A checkbox for 'Custom change address' is present, followed by a text input field for a ZeroOne address. The 'Pay To:' field contains the address 'ZQjfssoM1kDN1kEuXFNbFLTKSL5e296Hpx'. The 'Label:' field contains 'Masternode1'. The 'Amount:' field is set to '1 000.00000000' with a 'ZOC' dropdown and a 'Subtract fee from amount' checkbox. Below this, the 'Transaction Fee' is shown as '0.00020000 ZOC/kB' with a 'Choose...' button. At the bottom, there are buttons for 'Send', 'Clear All', and 'Add Recipient'. On the right, there are checkboxes for 'PrivateSend' and 'InstantSend', and a balance display showing 'Balance: 0.00000000 ZOC'. A progress bar at the very bottom indicates '11 weeks behind'.

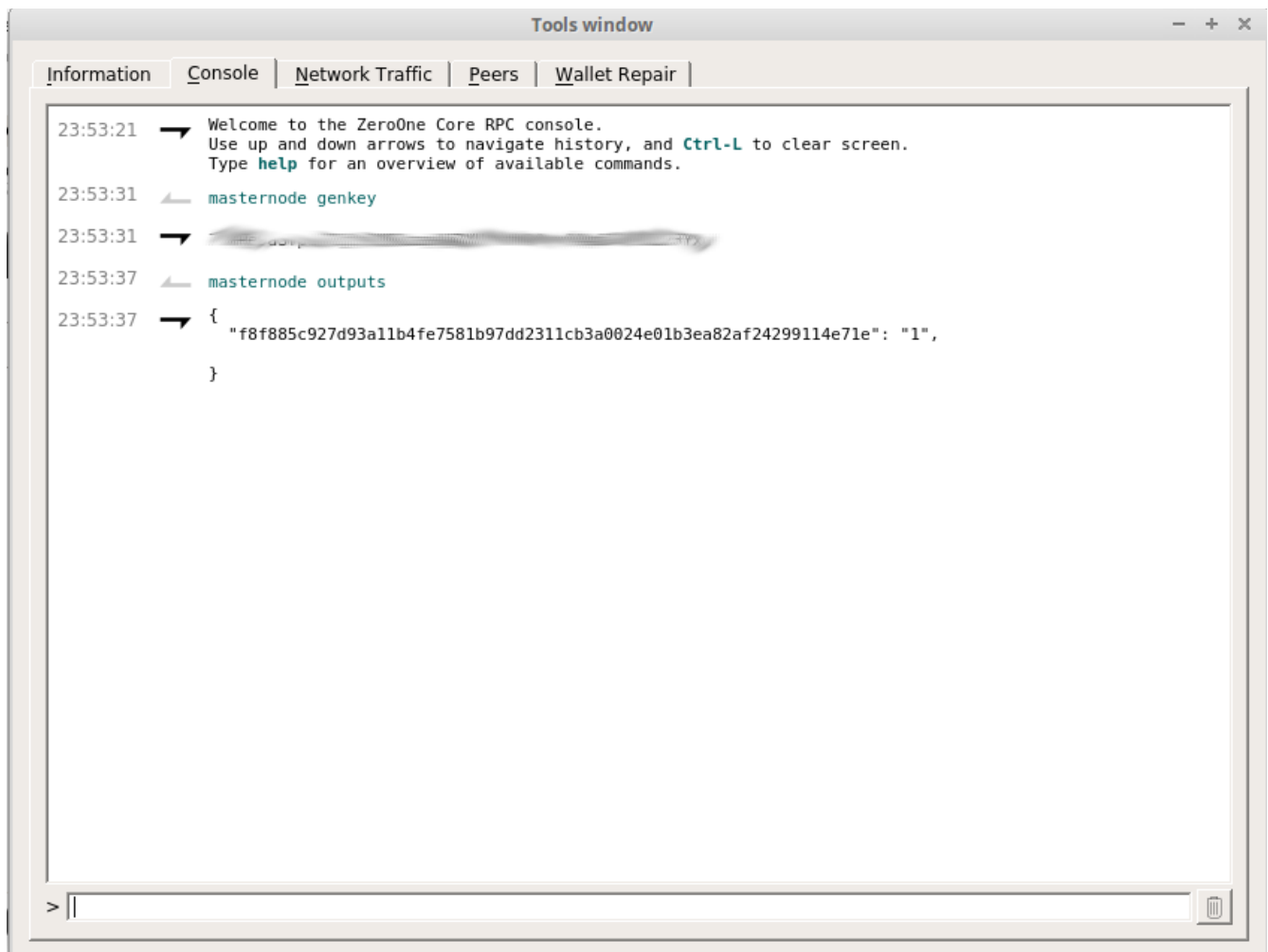
## Editing masternode.conf

Now we need to generate a masternode private key and get the transaction ID of the transaction that we used to send out coins to our masternode address.

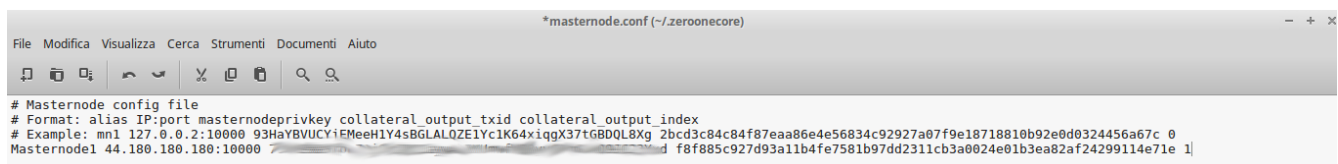
So click *Tools -> Debug Console*. In the console window that comes up type “masternode genkey” without the quotes and press enter. This is the **masternode private key**.

Now in the console again type “masternode outputs” again without the quotes. This will output a **transaction ID** and a number (usually 0 or 1) that shows the position of the transaction in the block.

We keep aside “**masternode private key**” and “**transaction ID**” and the number following the transaction ID (usually 0 or 1) we will need shortly



Now we need to create the entry in the local masternode configuration file first. So click *Tools -> Open Masternode Configuration File*, and you will get a file that has an example masternode config line in it. Any lines starting with a # are comments so this example is ignored. Follow the example and enter a name for your masternode - can be anything but i like to match it to the label for the address, then a space, then the IP address of your VPS you got earlier then a :10000 for the masternode port. So far the line should look something like (but with your info in it!)



To log in to your VPS, either through the console your providers gives you on their website or using a SSH programme such as PuTTY <https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html> on windows or just use the command line to ssh in on linux or mac.

For PuTTY / windows type the IP address of your VPS into the Host Name box, leave the port as 22 and click open. You should be prompt and type the username for your VPS and press enter, then type in the password for VPS and press enter. That should log you in.

For Linux / Mac open a command prompt and type “ssh username@ipaddress” without the quotes and press enter - where username is replaced by the username for your VPS and ipaddress is replaced by the ip address of your vps, for example ssh [root@YourVPSIP](#) in.

Now we need to install the masternode on your vps , we can use the script made by Evydder , is the easiest and safest way.

Log in your vps and type:

```
wget -O setup_zoc_mn.sh https://git.io/vx0Go
```

and

```
sudo sh setup_zoc_mn.sh
```

Now the setup will ask question to config the masternode:

- Is Your VPS IP: (if correct type y otherwise n an input your vps ip)
- Please Enter Your rpcuser (any username you decide)
- Please Enter Your privkey (the privatekey previously saved)
- Would You Like An Shell Script To Start The Node?[Y/N]" (Type Y)
- Would You Like To Install An Node Manager To Keep The Block Chain Synced?[Y/N] (Type Y)

Leave the script working, it will take some time , if all goes well, you will get a screen like this

```
*****
                        Configing ZeroOneCoin Masternode
*****
                        Starting ZeroOneCoin Masternode
*****
ZeroOne Core server starting
If The Above Says "ZeroOne Core server starting" Then Masternode is Installed
On Your Wallet Please Append the Following In The Masternode.conf
MN-X 94.165.151.103:10000 sdfgf43gthwnryebgtafudwsa collateral_output_txid collateral_output_index
*****
To Manual Start The Node Run           : zeroone/zerooned -daemon
To Check The Status Of The Masternode Run : zeroone/zeroone-cli getinfo

If You Require Any Help Ask On The Discord Server : https://discord.gg/jbMjjnU

If This Helps You Out And You Want To Tip :
(ZOC) 2N2L6JXTeF3nP8fSWf46wbRqAMjLezyRHK
*****
```

Now type

watch zeroone/zeroone-cli mnsync status

This will update every two seconds and you need to wait till this shows 999 under the assetID section. Once it does exit the watch by typing ctrl-c. Now start watching the masternode status by typing

```
{
  "AssetID": 999,
  "AssetName": "MASTERNODE_SYNC_FINISHED",
  "Attempt": 0,
  "IsBlockchainSynced": true,
  "IsMasternodeListSynced": true,
  "IsWinnersListSynced": true,
  "IsSynced": true,
  "IsFailed": false
}
```

and also

watch zeroone/zeroone-cli masternode status

This should be something about the masternode not being in the masternode list. That's all good for the moment, now switch back to the QT wallet. Now check how many confirmations that the transaction that sent the 1000 coins has had by hovering over it with the mouse. If it has 15 or more confirmations then close the QT wallet down, re-open it and wait for it to sync again. Now go to the masternode tab and click on the my masternodes sub tab. You should have a masternode in there that matches the configuration you put in the masternode configuration file, with the word "MISSING" for its status. Now click the "start MISSING" button, say yes you are sure, then type in your password and press enter. If everything has been set up right it will tell you you have successfully started your masternode and on the VPS the masternode will have changed status to "masternode successfully started".

```
"vin": "CTxIn(COutPoint(
, 1), scriptSig=)",
"service": " :10000",
"payee": " ",
"status": "Masternode successfully started"
```

The status in the QT wallet will go to pre-enabled for 10 minutes or so then switch to enabled, and that's all, you can close the terminal vps and the wallet, if there are any problems you can have assistance on the Discord channel <https://discord.gg/jbMjjnV>