

Masternode Setup Guide

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Introduction

This guide is for a single masternode, on a Ubuntu 16.04 64bit server (VPS) running headless and will be controlled from the wallet on your local computer (Control wallet). The wallet on the the VPS will be referred to as the Remote wallet.

You will need your server details for progressing through this guide.

First the basic requirements:

1. 5000 LYTX
2. A main computer (Your everyday computer) – This will run the control wallet, hold your collateral 5000 LYTX and can be turned on and off without affecting the masternode.
3. Masternode Server (VPS – The computer that will be on 24/7)
4. A unique IP address for your VPS / Remote wallet

(For security reasons, you're are going to need a different IP for each masternode you plan to host)

The basic reasoning for these requirements is that, you get to keep your LYTX in your local wallet and host your masternode remotely, securely.

Configuration

Note: The auto zLYTX minter should be disabled during this setup to prevent autominting of your masternode collateral. BEFORE unlocking your wallet, you can disable autominting in the control wallet option menu.

1) Using the control wallet, enter the debug console (Tools > Debug console) and type the following command:

masternode genkey (This will be the masternode's privkey. We'll use this later...)

2) Using the control wallet still, enter the following command:

```
getaccountaddress chooseAnyNameForYourMasternode
```

3) Still in the control wallet, send 5000 LYTX to the address you generated in step 2 (Be 100% sure that you entered the address correctly. You can verify this when you paste the address into the "Pay To:" field, the label will autopopulate with the name you chose", also make sure this is exactly 5000 LYTX; No less, no more.)

– Be absolutely 100% sure that this is copied correctly. And then check it again. We cannot help you, if you send 5000 LYTX to an incorrect address.

4) Still in the control wallet, enter the command into the console:

```
masternode outputs (This gets the proof of transaction of sending 5000)
```

5) Still on the main computer, go into the LYTX data directory, by default in Windows it'll be %Appdata%/LYTX, Linux ~ and Mac OSX Library/Application Support/Lytix

Find masternode.conf and add the following line to it:

```
<Name of Masternode(Use the name you entered earlier for simplicity)>  
<Unique IP address>:27071 <The result of Step 1> <Result of Step 4> <The  
number after the long line in Step 4>
```

Example: MN1 31.14.135.27:27071

```
892WPpkqbr7sr6Si4fdsfssjjapuFzAXwETCrpPJubnrmU6aKzh
```

```
c8f4965ea57a68d0e6dd384324dfd28cfbe0c801015b973e7331db8ce018716  
999 1
```

Substitute it with your own values and without the "<>"s

VPS Remote wallet install

7) Install the latest version of the LYTX wallet onto your masternode. The latest version can be found here:

<https://github.com/LytixChain/LYTX/releases>

1. Go to your home directory: `cd ~`

2. From your home directory, download the latest version from the LYTX GitHub

```
repository: wget https://github.com/LytixChain/lytix/releases/download/v  
1.5.7/lytix-1.5.7-x86_64-linux-gnu.tar.gz
```

1. The link above is for Ubuntu (or similar), make sure you choose the correct version of the core wallet if you are not using Ubuntu from: <https://github.com/LytixChain/LYTX/releases>
3. Unzip and extract: `tar -zxvf lytix-1.5.7-x86_64-linux-gnu.tar.gz`
4. Go to your LYTX 1.5.7 directory: `cd ~/lytix-1.5.7`
5. Make it easy and just copy these to /usr/local - that way they'll be in your path: `sudo cp -r * /usr/local`
6. Note: If this is the first time running the wallet in the VPS, you'll need to attempt to start the wallet `lytixd` this will place the config files in your `~/lytix` data directory
 1. press CTRL+C to exit / stop the wallet then continue to step 8

Configuration Cont.

8) Now on the masternodes, find the LYTX data directory here.(Linux: `~/lytix`) `cd ~/lytix`

9) Open the `lytix.conf` by typing `vi lytix.conf` then press **i** to go into insert mode and make the config look like this:

```
rpcuser=long random username
rpcpassword=longer random password
rpcallowip=127.0.0.1
server=1
daemon=1
logtimestamps=1
maxconnections=256
masternode=1
externalip=your unique public ip address
masternodeprivkey=Result of Step 1
```

Make sure to replace `rpcuser` and `rpcpassword` with your own.

10) to exit the editor press `esc` then `:wq!` then press enter

Start your masternode

11) Now, you need to finally start these things in this order

- Start the daemon client in the VPS. `lytixd`
- From the Control wallet debug console `startmasternode alias false <mymnalias>`

where `<mymnalias>` is the name of your masternode alias (without brackets)

The following should appear:

“overall” : “Successfully started 1 masternodes, failed to start 0, total 1”,

“detail” : [

```
{
"alias" : "<mymnalias>",
"result" : "successful",
"error" : ""
}
```

– Back in the VPS (remote wallet), start the masternode `lytix-cli startmasternode local false`

– A message “masternode successfully started” should appear

12) Use the following command to check status:

```
lytix-cli masternode status
```

You should see something like:

```
{
"txhash" :
"334545645643534534324238908f36ff4456454dffff51311",
"outputidx" : 0,
"netaddr" : "45.11.111.111:27071",
"addr" : "86fujc45645645445645R7TiCwexx1LA1",
"status" : 4,
"message" : "Masternode successfully started"
}
```

Congratulations! You have successfully created your masternode!

Now the masternode setup is complete, you are safe to remove “enablezeromint=0” from the `lytix.conf` file of the control wallet.

Tearing down a Masternode

1) How do I stop running MN1 on my VPS hoster and delete MN1 from my ‘LYTX Core – Wallet’?

a) `lytix-cli stop` from the masternode to stop the wallet.

b) Then from your controller wallet PC, edit your `masternode.conf`, delete the MN1 masternode line entry.

c) Now restart the controller wallet.

d) your 5000 will now be unlocked.

2) How do I get the 5000 back that I’ve send to my MN1 address at the beginning of the MN1 setup?

You don’t need to “get that back” as it is already in your wallet.

Being in the different address is not an issue as that’s also your address.

3) Can I use this 5000 normally on my wallet then again, and sell it or stake it normally like before? Yes

Quick and Dirty Guide

This is for folks that just need the info

VPS build (Ubuntu 16.04)

```
sudo add-apt-repository -y ppa:bitcoin/bitcoin
```

```
sudo apt-get update
```

```
sudo apt-get -y install build-essential libtool autotools-dev autoconf pkg-config  
libssl-dev libevent-dev libboost-all-dev libprotobuf-dev protobuf-compiler  
libdb4.8-dev libdb4.8++-dev automake git
```

Pull the binaries - <https://github.com/LytixChain/lytix/releases> and grab the latest release:

```
wget https://github.com/LytixChain/lytix/releases/download/v1.5.7/lytix-1.5.7-  
x86_64-linux-gnu.tar.gz
```

```
tar zxvf lytix-1.5.7-x86_64-linux-gnu.tar.gz
```

```
cd lytix-1.5.7
```

```
sudo cp -r * /usr/local
```

```
lytixd --daemon
```

On the PC/Cold wallet

```
masternode genkey
```

```
getaccountaddress your_masternode_name
```

```
send 5000 to address
```

```
masternode outputs
```

```
edit masternode.conf with genkey and outputs info
```

```
save it and restart the client
```

On the masternode

```
Edit the .lytix/lytix.conf file
```

```
rpcallowip=127.0.0.1
```

```
listen=1
```

```
server=1
```

```
daemon=1
```

```
logtimestamps=1
```

```
maxconnections=256
```

```
masternode=1
```

```
externalip=ip_address_of_the_masternode
```

```
bind=ip_address_of_the_masternode
```

```
masternodeaddr=ip_address_of_the_masternode  
masternodeprivkey=genkey_output
```

Only port TCP 27071 needs to be open for masternodes to communicate /
besure to not lock yourself out by allowing ssh from your IPs

Restart masternode lytixd

```
lytix-cli stop
```

```
lytixd
```

On the PC - cold wallet

Wait for 15 confirmations of the send transaction

Go to masternodes > Click "Start Alias" > Confirm

If successful you will see this message in the Masternode .lytix/debug.log

```
2018-11-12 04:25:59 CActiveMasternode::EnableHotColdMasterNode() -
```

```
Enabled! You may shut down the cold daemon.
```

Payments start after the masternode is Enabled and goes through the queue

- can be a few hours