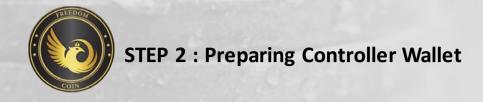


Freedomcoin wallet running on your local computer with at least 5000 Freedomcoincoins for every masternode with a static IP and open port 7118 for masternodes.

- 1. Choose the place where you will hold your masternodes dirs (you need 1Gb free space for every masternode)
- 2. Create folder "FreedomcoinMN1" there
- 3. Copy file "Freedomcoin-qt.exe" in folder "FreedomcoinMN1"
- 4. Create in folder "FreedomcoinMN1" new folder "data"
- 5. Copy file "blk0001.dat" and folder "txleveldb" in created folder "data"
- 6. Rename "Freedomcoin-qt.exe" to the "Freedomcoin-mn1.exe"
- 7. Press Win+R and type "cmd" and press Enter
- 8. Now type there: echo start Freedomcoin-mn1.exe -datadir=./data > %homepath%/Desktop/startmn1.cmd
- 9. Move file "startmn1.cmd" from Desktop to the "FreedomcoinMN1" folder
- 10. Repeat the process from step 2 for each masternode you want to created, with changing mn1 to mn2, mn3
- 11. Run startmn1.cmd, startmn2.cmd and startmn3.cmd, wait for complete loading wallets and complete syncing with blockchain
- 12. Now you can exit from each running masternode wallets



Freedomcoin wallet running on your local computer with at least 5000 Freedomcoincoins for every masternode with a static IP and open port 7118 for masternodes.

- 1 Open your main wallet where you have your coins
- 2 Go to Receive tab
- 3 Press button "New address" and enter "Masternode 1" in Label (do not check "Stealth address")
- 3.1 Press button "New address" and enter "Masternode 2" in Label (do not check "Stealth address")
- 3.2 Press button "New address" and enter "Masternode 3" in Label (do not check "Stealth address")
- 4 Send to all this address exactly 5000 Freedomcoin by one transaction. This can be done by going to Send button and clicking on add recipient two times. And fill all 3 address on pay to and 5000 as amount.
- 5 Wait for 1 confirmation of transaction and go to the Debug console
- 6 Run command "masternode genkey" and write down generated key (this is your masternode private key)
- 7 Run command "masternode outputs" and write down hexnumbers (this is your masternode tx) and digit after ":" (this is tx index)

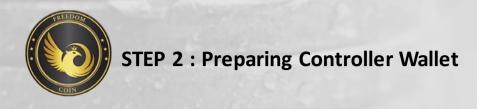
You will get 3 output like

{ "60835a7d867d335434925c32f38902268e131e99a5821557d3e77f8ca3829fd8" : "0",

"60835a7d867d335434925c32f38902268e131e99a5821557d3e77f8ca3829fd8":"1",

"60835a7d867d335434925c32f38902268e131e99a5821557d3e77f8ca3829fd8": "2" }

- 8 Go to Masternodes tab and
- 8 Go to Masternodes tab and switch to the "My Masternodes"
- 9 Press button "Create"
- 10 Enter "Alias" "MN1" (do not use spaces and special charatters)



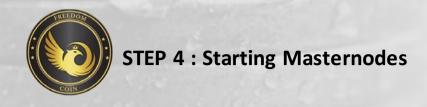
- 11 Enter "Address" "YOUREXTERNALIP:PORT" (your external white ip and port for masternode)
- 12 Enter "Privkey" masternode private key you generated with "masternode genkey"
- 13 Enter "TxHash" masternode tx from "masternode outputs" command
- 14 Enter "Output Index" tx index from "masternode outputs" command
- 15 Now you can press "Ok"
- 16 Repeat process from step 6 for MN2 and MN3. With renaming MN1 to MN2 and MN3 and changing port When you get to step 7 "masternode outputs" in second time you will see 2 lines with txhash and index. You must choose the First line with txhash for MN1 second for MN2 third for MN3.
- 17 Press "Update" and you will see all three masternodes in list with status "Not in the masternode list. "Steps 8-15 creates masternode.conf. You can skip this steps and create it by yourself. It have format:

 ALIAS IP:PORT PRIVKEY TXHASH OUTPUTINDEX One line one masternode config



STEP 3 : Configuring Masternodes

- 1 Go to "FreedomcoinMN1/data" folder
- 2 Open "Freedomcoin.conf" in Notepad
- 3 Type there: port=PORT masternode=1 masternodeaddr=IP:PORT masternodeprivkey=PRIVKEY
- 4 Replace PORT with port for your Masternode 1, IP:PORT with your external white ip and the same port for you Masternode 1
- 5 Replace PRIVKEY with masternode private key you generated with "masternode genkey" in controller wallet for Masternode 1
- 6 Save it and repeat process for Masternode 2 and Masternode 3.



- 1 Now you can restart all your masternodes by executing the file "startmn1.cmd", "startmn2.cmd" and "startmn3.cmd"
- 2 Go to controller wallet, check that your coins in Masternode 1, 2 and 3 addresses have at least 15 confirmations.
- 3 Go to Masternodes tab and switch to the "My Masternodes"
- 4 -Press "Start All"

Thats all folks. You have created 3 working masternodes. Don't be afraid to running PoS on controller wallet. It will not damage your masternode transactions because all masternode coins will be locked and excluded from PoS.



This is the advised Method to setup your Masternodes. The wallet containing the coins does not have to be exposed and can run on your local computer. It does not have to run all the time and you are not vulnerable to someone hacking your VPS because all he can do when he hacked your VPS is stop your MNs but not steal your coins! Desktop Wallet Setup In the first steps the desktop wallet will be setup. This is the wallet you can run on your local PC. When the masternodes are connected, this wallet can be closed and the PC does not have to ru in order for the masternodes to generate rewards.

We will create an address, private key and transaction for each masternode (MN in the following) and show the necessary steps for configuration.

Open Console: Tools ? Debug window 1st Step

- Type "getaccountaddress MN1" and press Enter. This is the address your masternode will be affiliated to. 2nd Step
- You can view all created addresses under 'Receiving Addresses'
- Send exactly 5000 coins to the created MN address. Click on "add recipient" to add lines so you can send to all nodes in one transaction.
- Now create (or open) the "masternode.conf" this file is located under %appdata%\Roaming\Freedomcoin.
- Make sure you have the right extension!
- We will now add a Line for each MN with the following Format:
- *Begin by entering and alias IP:port
- *Alias: The name of the MN receiving address (we named them MN1, MN2, ...)
- *IP: The static IP of your server (If you don't have one scroll down to find out where to get one!)
- *Port: A port the MN will connect to. The port is fixed to 7118 and you need a separate IP (VPS) for each running node!(edited)
- You cannot have more than one node per IP make sure the port is 7118. If you don't have a linux VPS by now please scroll down to "Get a Linux VPS first"
- Next we get the "masternodeprivkey".
- *Open debug console again, type "masternode genkey" and press enter.
- *Copy the output keys to the config.



- The private keys are used for voting and identify you as the real owner so don't share them
- Next we will add txhash and outputindex. Go to the debug console again, type "masternode outputs" and press enter.
- If you send the coins in one transaction the "txhash" will be the same. If you add a masternode later, another tuple will be added. So every masternode has a unique pair of txhash and outputindex
- Copy the information to the config file (Make sure you don't forget the index!)

make sure you add these nodes before running your wallet please:

addnode=45.77.146.147

addnode=45.77.244.73

addnode=45.63.83.95

addnode=108.61.185.240

addnode=45.76.132.103

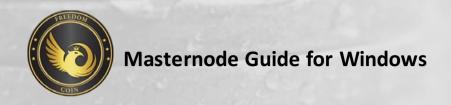
addnode=45.63.116.92

addnode=45.76.19.14

addnode=144.202.60.139

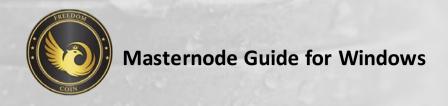
addnode=108.61.203.84

addnode=207.148.13.76



- Open and Run the Freedomcoin wallet for the first time. In the lower left hand corner of the User Interface, you will see "Synchronizing with network" and other sync messages each time you open your Freedomcoin Wallet. If there is a problem synchronizing, it may say "No Block Source Available" instead. If this happens, just close and re-open the wallet until it synchronizes
- Go to Help -> Debug Console.
- In the Console window enter getaccountaddress 0 and copy the result.
- This is your MASTERNODE DEPOSIT ADDRESS, where you will deposit the coins to create a masternode.
- Pay 5000 TFC exactly into this address. No more, no less.
- Go to RUN -> %appdata% -> Common Files -> Freedomcoin Folder -> Open Wallet Configuration File. Open the file in Note and paste the following two lines.Config file is located as Freedomcoin.cnf

masternode=1
masternodeprivkey=
rpcuser=user
rpcpassword=ytoi0s3xuTqrVrF
rpcallowip=127.0.0.1
daemon=1
server=1
listen=1
port=7118
rpcport=7117



- In the Console Debug window enter "masternode genkey" and copy the result. This is your MASTERNODE PRIVKEY. This is your MASTERNODE PRIVKEY.
- Go back to the config file in Notepad and paste your privkey after the equals sign of "masternodeprivkey=". Now save and close the file.
- Close the wallet by going to File -> Exit. Go to firewall settings and add 7118 in the incoming port list. windows firewall -> Advance settings -> Inbound Rules -> NewRule(Right side) -> Port -> 7118
- Open the Freedomcoin Wallet again by running FreedomcoinCoin-Core.exe. This is how you will always start the wallet going forward.
- Go to Help -> Debug Console. Enter "masternode start". You will see the response "Masternode started successfully".
- Congratulations, your masternode is now running.
- Now click the Masternodes tab that is now visible. All masternodes need to be active for a certain amount of blocks before they are recognized by the network and eligible for rewards.



HOT/COLD Wallet - Ubuntu 14.04 and 16.04 VPS Installation Guide

- HOT/COLD Wallet Ubuntu 14.04 and 16.04 VPS Installation Guide
- Create wallet.dat file for you masternode wallet
- Create tfc collateral address on you wallet send 5000 tfc exactly to this address wait for at least 10 confirmations then open the debu
 consolue and type the following:

Masternode genkey Masternode outputs

- Copy this detail you will use it later.
- OPEN Putty and Login to your VPS Terminal/Console:
- After you have successfully logged in you should execute the following commands one line at a time and press "Y" followed by the "Enter" key where prompted:)

sudo apt-get update sudo apt-get upgrade sudo apt-get dist-upgrade sudo apt-get install nano htop git sudo apt-get install software-properties-common sudo apt-get install build-essential libtool autotools-dev pkg-config libssl-dev sudo apt-get install libboost-all-dev sudo apt-get install libevent-dev sudo apt-get install libminiupnpc-dev sudo apt-get install autoconf sudo apt-get install automake sudo add-apt-repository ppa:bitcoin/bitcoin sudo apt-get update sudo apt-get install libdb4.8-dev libdb4.8++-dev sudo apt-get install libgmp-dev



HOT/COLD Wallet - Ubuntu 14.04 and 16.04 VPS Installation Guide

- OPEN COLLATERAL WALLET
- create masternode fill in ip and port :7118 if you have not done so
- · get info on created masternode
- copy and paste in vps nano and add the list of masternode to the config like you did with your wallet "addnode section" save and exit

cd (optional)

sudo git clone http://github.com/TheFreedomCoin/Freedom-Coin

cd Freedom-Coin/src

chmod +x leveldb/build detect platform

cd leveldb && make libleveldb.a libmemenv.a

cd ..

make -f makefile.unix # Headless

Reboot

**** Log into VPS and continue ***

cd

cd Freedom-Coin/src

./Freedomcoind (this should give a warning - and generate a rpcuser for your wallet on screen - copy this detail you will use it in a few steps.)

#################################### copy the rpc details to your freedomcoin.conf

rpcuser=Freedomcoinrpc

rpcpassword= hRjtgo5222346eiMfz2c3L b1pVD2c3LeuKRjtgo522MVHpm4a

#########################

nano ~/.Freedomcoin/Freedomcoin.conf

######paste the rpc details to your freedomcoin.conf and then add the following and replace VPSIPADRESS & YOURMASTERNODEPRIVATEKEY with your values ######



masternodeprivkey=YOURMASTERNO DEPRIVATEKEY masternodeaddr=VPSIPADD RESS:7118

masternode=1

daemon=1

server=1

listen=1

port=7118

rpcport=7117

rpcallowip=127.0.0.1

addnode=45.77.146.147

addnode=45.77.244.73

addnode=45.63.83.95

addnode=108.61.185.240

addnode=45.76.132.103

addnode=45.63.116.92

addnode=45.76.19.14

addnode=144.202.60.139

addnode=108.61.203.84

addnode=207.148.13.76

################now save this doc



./Freedomcoind -daemon ./Freedomcoind getinfo

######### you can run a watch to

watch ./Freedomcoind getinfo

########## Aftr the sync goto you collateral wallet and start the your masternode. Then type the following and you should see your masternode collateral tx-txindex with an "ENABLED" next to it, ©

./Freedomcoind masternode list

If not and your see "DISABLED" then something went wrong \odot .

#################### not for all and only if you want to here is basic Firewall setup with explorer and website enabled requirements:

sudo apt-get install ufw sudo ufw allow ssh sudo ufw allow 22 sudo ufw allow 80 sudo ufw allow 443 sudo ufw allow 3001 sudo ufw allow 7117 sudo ufw allow 7118

sudo ufw enable # and yes ©