Cold/Hot Wallet Setup for FxTC

Shell script to install a FxTC Masternode on a Linux server running Ubuntu 16.04/18.04

Visit this link for wallet build instructions and notes for Linux, OSX and Windows wallets

https://github.com/fxtc/fxtc/blob/0.16/README.md

Visit this link to download the wallet

https://github.com/fxtc/fxtc/releases

Masternode collateral is dynamic, starting at 1 000 FxTC up to 100 000 FxTC.

Use RPC command: **masternode collateral** for actual amount +-0.1%

MN collateral needs 15 confirmations to start MN

LET'S GET STARTED!

Be aware, you are setting up a Masternode on a remote server, and keeping your FxTC on

a local PC. Your FxTC are never in danger from the remote server

NOTE: Always do a backup of your WALLET.DAT if you have FxTC on your computer

You can get a Linux server from Vultr, at first a $5/$10 server would be sufficient but later on the server requirement might increase as the DEX utility of FxTC might require more resources.

Cold Wallet Setup

1) Start your FxTC wallet
2) Make sure your wallet is fully synced
3) Go to **Help > Debug window > Console** and create MN address with below command, you can give your MN address any suitable name. For this guide I'll specify MN1: **A Legacy address is compulsory!!!**

```
getnewaddress "MN1" "legacy"
```

getnewaddress "MN1" "legacy"
fVxkYic4hD4txt7WDtYqLTJBHeGbDtbyHQ

4) Generate a private key for your masternode, then save it in a text file, you will need it later:

```
masternode genkey
```

masternode genkey
7wpGhXXqBApHSBMQUmymoo995BYxBa69DETW3iUcq7pViC3jUP5

5) Check what collateral you require by running the collateral command

```
masternode collateral
```

masternode collateral
1022.38860011

6) Send collateral to your masternode wallet, there is a 0.1% tolerance so you can round to one decimal point or even whole number if it is close. You don't need the precise 8 digits. You could send with the GUI or use below command. False means don not subtract transaction fee from the amount sent. Wait for 15 confirmations.

```
sendtoaddress "fVxkYic4hD4txt7WDtYqLTJBHeGbDtbyHQ" 1022.4 "" "" false
```

7) You can check if you received the collateral sent with following command

```
getreceivedbyaddress fVxkYic4hD4txt7WDtYqLTJBHeGbDtbyHQ
```

(your masternode address)

8) For security reasons it's recommended to encrypt your wallet with a password, make sure you remember the password or save it somewhere as all the coins will be lost if you lose your password.

```
encryptwallet "passphrase"
```

There is a current bug when you try to send coins from encrypted wallet, it just won't unlock. We are working hard to fix it. Temporarily you can go to Help > Debug window > Console and type the following temporarily: 60 is 60 seconds.
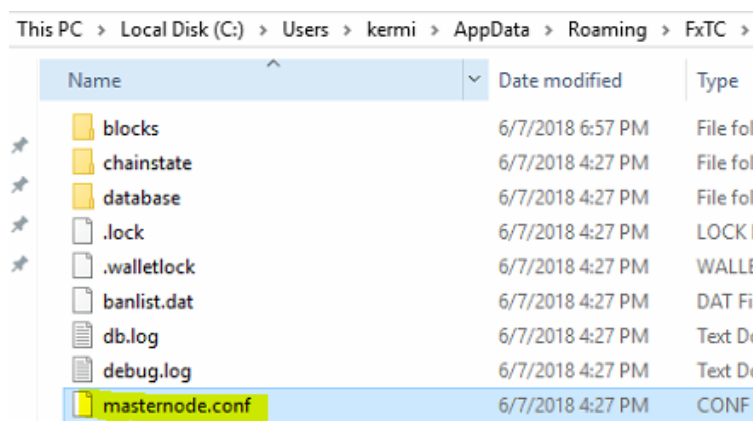
```
walletpassphrase "passphrase" 60
```

9) In the debug console enter the following to get the output. Save it into that same text file you saved the private key. It's your TX_ID and TX_INDEX, {'**TX_ID**":"**TX_INDEX**"}

```
masternode outputs
```

```
masternode outputs
{
    "79835dfce232236ffaaa05200353a419738f48dcfbf6b9358d458a68f630790e": "0"
}
```

10) Edit your masternode.conf file

Windows: C:\Users\<YOUR_USER>\Appdata\Roaming\FxTC , you can also use path %AppData%\FxTC in Explorer

Mac: ~/Library/Application Support/FxTC

Linux: ~/.FxTC

```
# Masternode config file

# Format: alias IP:port masternodeprivkey collateral_output_txid collateral_output_index

# Example: mn1 127.0.0.2:19999 93HaYBVUCYjEMeeH1Y4sBGLALQZE1Yc1K64xiqgX37tGBDQL8Xg
2bcd3c84c84f87eaa86e4e56834c92927a07f9e18718810b92e0d0324456a67c 0
```

Format your masternode information and save the file. You can get your IP from the next step.

> **MN_ALIAS VPS_IP:9468 MN_PRIVKEY TX_ID TX_INDEX**

11) Open up an SSH Client (Putty) then log in to your VPS as root. You need to run an Ubuntu 16.04/18.04 VPS
12) Autoinstall FxTC masternode. You could omit all these options if you only want to install the FxTC masternode without starting it and without sentinel. Sentinel can be installed later by adding "-s 1" after ./masternode.sh
13) The script will also cater for easy masternode and sentinel updates.
    a. The release is required and the script won't go ahead without a release specified. Copy the latest release from the "Install Script Help" (in red)

```
##############---FxTC Masternode Install Script Help---########################
masternode.sh, version v0.1
Latest FxTC release is:  v0.16.0.30-fxtc
Usage example:
./masternode.sh (-r|--release) string [(-h|--help)] [(-c|--clear)] [(-s|--sentinel)] [(-n|--startnode)] [(-u|--update)] [(-t|--testnet)]
./masternode.sh -r v0.16.0.30-fxtc -s -n will install the masternode in the latest release, install sentinel and start the node for block syncing
Options:
-r or --release string: Release to be installed. REQUIRED.
-h or --help: Displays this information.
-c or --clear: Clear ALL fxtc masternode data
-s or --sentinel: Adds sentinel
-n or --startnode: Start masternode after installation to sync with blockchain
-u or --update: Updates the fxtc masternode deamon
-t or --testnet: Configures the masternode for TESTNET
```

```
wget https://raw.githubusercontent.com/fxtc/fxtc/0.16/masternode.sh
chmod 755 masternode.sh
./masternode.sh -r v0.16.0.50-fxtc -s -n
```

14) Follow through the steps and supply the script the Masternode Private Key when it prompts for it.

```
* Enter your Masternode Private Key
7fFctkvb4iKEKkEuPtxEkjU89JB5rLwjp161czvnYkQWgJap4xj
```

```
============================================================================
fxtc masternode service is up and running as user fxtc
and it is listening on RPC port  9469 on MAINNET
Configuration file is:  /home/fxtc/.fxtc/fxtc.conf
Sentinel Configuration file is: /var/lib/fxtc/sentinel/sentinel.conf
Sentinel Cron log file is: /var/log/sentinel/sentinel-cron.log
VPS_IP:PORT 199.247.26.118:9468
Masternode PRIVATEKEY is: 7wpGhXXqBApHSBMQUmymoo995BYxBa69DETW3iUcq7pViC3jUP5
Your RPC user is: flevT11KrB
Your RPC password is: JyxSptBIFDwFcnHwcOm6oO
A logfile for this run can be found at the following location:
/tmp/install_18-06-17-1529216338_out.log
Please run this script to check the health of your masternode
 => bash /var/lib/fxtc/fxtc.menu.sh
============================================================================
```

15) After the script completed you can copy the details that was generated with the script and save it in the Notepad doc with your other info you saved. See output below.
16) Run the following command to check the masternode status
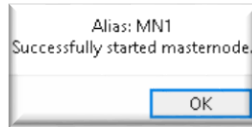
```
bash /var/lib/fxtc/fxtc.menu.sh
```

```
~~~~~~~~~~~~~~~~~~~~~
   M A I N - M E N U
~~~~~~~~~~~~~~~~~~~~~
1. Start Masternode
2. Check systemd status
3. Run Masternode GetInfo
4. Edit Masternode config file
5. Check Masternode Status
6. Check Masternode Sync Status
7. Exit
```

1) Start the masternode if the status is in a stopped state
2) Check the running state of the fxtc service
3) Run -getinfo on the masternode to see the sync status etc.
4) Edit the masternode config file
5) Check the masternode start status
6) Check masternode sync status (to be used with sentinel later on)

17) If the masternode is fully synced by comparing the local wallet and "Run Masternode GetInfo" blocks count you can complete the rest of the setup on the local/desktop wallet

```
{
  "version": 160020,
  "protocolversion": 70208,
  "walletversion": 159900,
  "balance": 0.00000000,
  "blocks": 1492,
  "timeoffset": 0,
  "connections": 5,
  "proxy": "",
  "difficulty": 0.002760809854408196,
  "testnet": true,
  "keypoololdest": 1528497405,
  "keypoolsize": 1000,
  "paytxfee": 0.00000000,
  "relayfee": 0.00001000,
  "warnings": ""
}
```

a) Go to your cold/desktop wallet and go to Settings > Options > Wallet and tick the boxes for "Enable Coin Control" and "Show Maternode Tab" then close the wallet so changes can take effect. Open it again so the masternodes.config file can load. Click on the "Send Tab" then click inputs and right click on the MN wallet and click "Unlock unspent"

b) Now click on the "Maternode Tab", right click on your masternode and click "Start Alias" and confirm.

c) Go back to the VPS and run "5) Get Masternode Status", the status should have changed to Masternode Started.

> Alias: MN1
> Successfully started masternode.
>
> OK

18) The script created a new user called fxtc, you already changed the password for the account but can run the following command if you want to change the password again.

```
passwd  fxtc
```

19) Now go back to your VPS and run this command to make sure you installed the latest version.

```
fxtcd -version
```

```
fxtc@guest:~$ fxtcd -version
FxTC Core Daemon version v0.16.0.20-df605c2
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Copyright (C) 2009-2018 The Bitcoin Core developers

Please contribute if you find FxTC Core useful. Visit
<https://fixedtradecoin.org> for further information about the software.
The source code is available from <https://github.com/fxtc/fxtc>.

This is experimental software.
Distributed under the MIT software license, see the accompanying file COPYING
or <https://opensource.org/licenses/MIT>

This product includes software developed by the OpenSSL Project for use in the
OpenSSL Toolkit <https://www.openssl.org> and cryptographic software written by
Eric Young and UPnP software written by Thomas Bernard.
fxtc@guest:~$
```