

DIAMOND 3.0 MASTERNODE + POS WALLET

Single masternode + POS Windows wallet on
home PC with onion hidden service (Windows)

Prerequisites:

a - A system running under Windows 10

b - 10'001 DMD as collateral (10'000 DMD + 1 DMD to cover the transaction fees)

Plan of action:

- 1 - Update Windows 10.
- 2 - Download Tor here <https://www.torproject.org/>, install it, run it, check the connectivity.
- 3 - Configure Tor for our network.

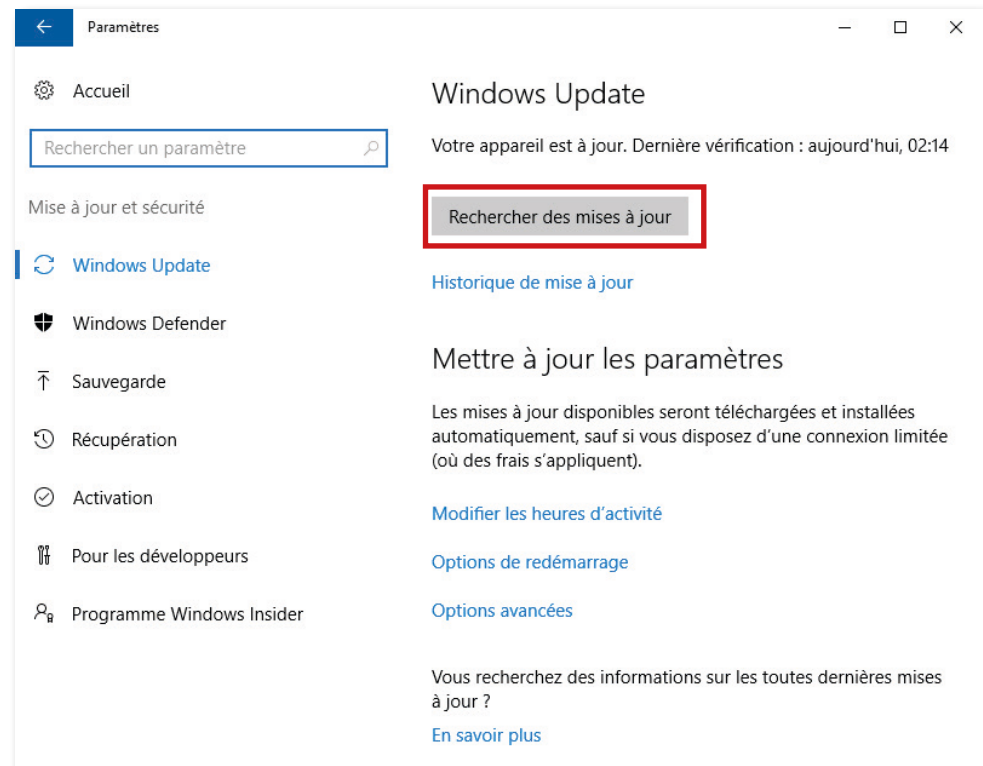
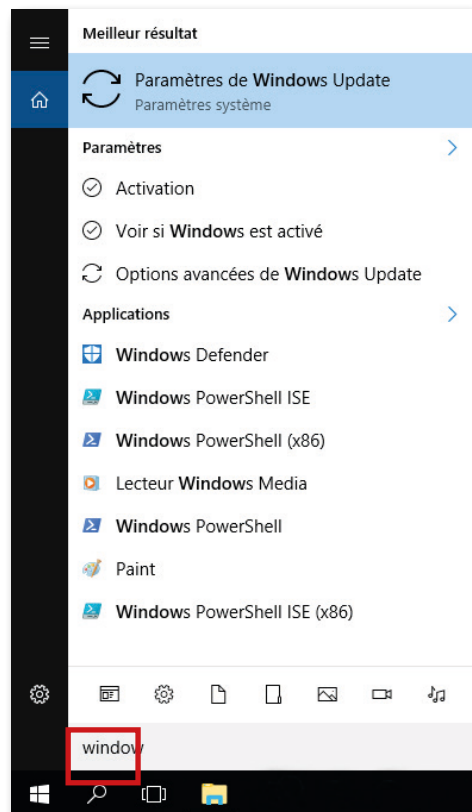
- 4 - Download DMDv3 Windows Wallet from <http://bit.diamonds/> and set up the installation.
- 5 - Setup our masternode.
- 6 - Set up communication through Tor :)

* Notes: This guide was written on testnet, a few links on the following screenshots are related to the testnet. The text is providing the correct links and commands.

1

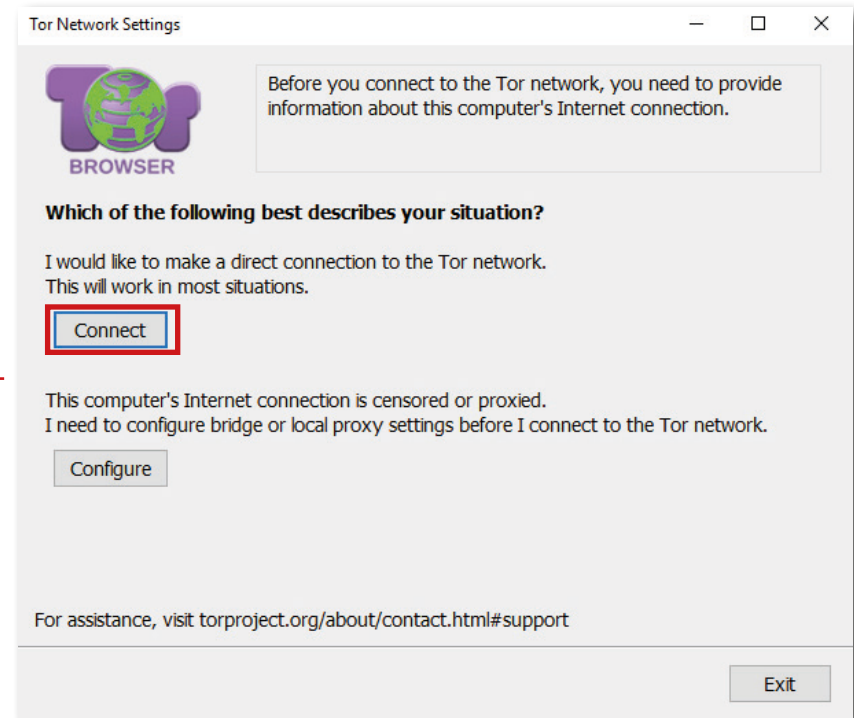
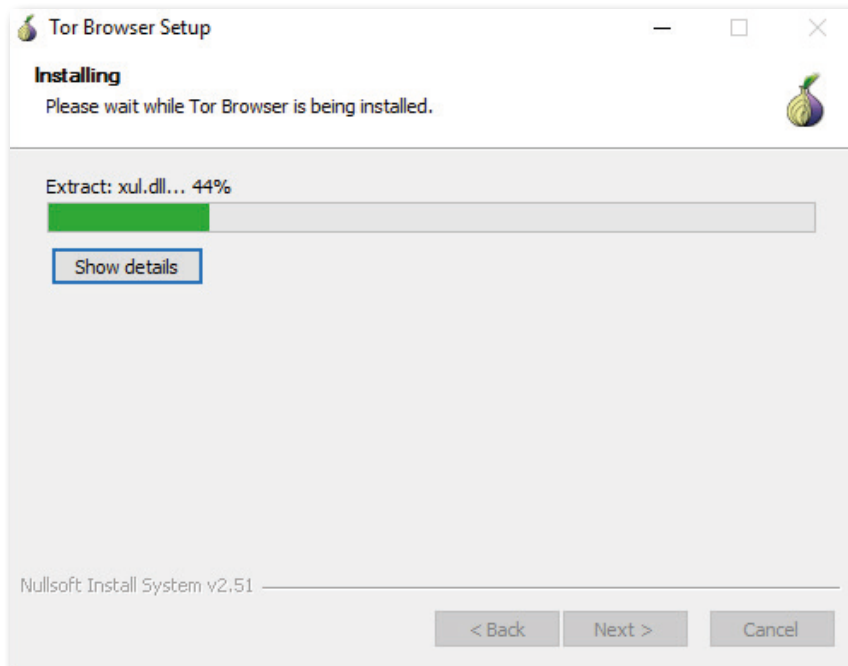
For the purpose of this guide I have used Windows 10. Everything was installed and configured on Windows 10. Other different versions of Windows might require some adjustments which won't be covered in this guide.

First of all, we need to update our Windows installation to make sure we are running a securized system. Install all the available updates.



2

Download Tor here <https://www.torproject.org/download/download-easy.html.en> and install it.
Check Tor installation by connecting to Tor network.



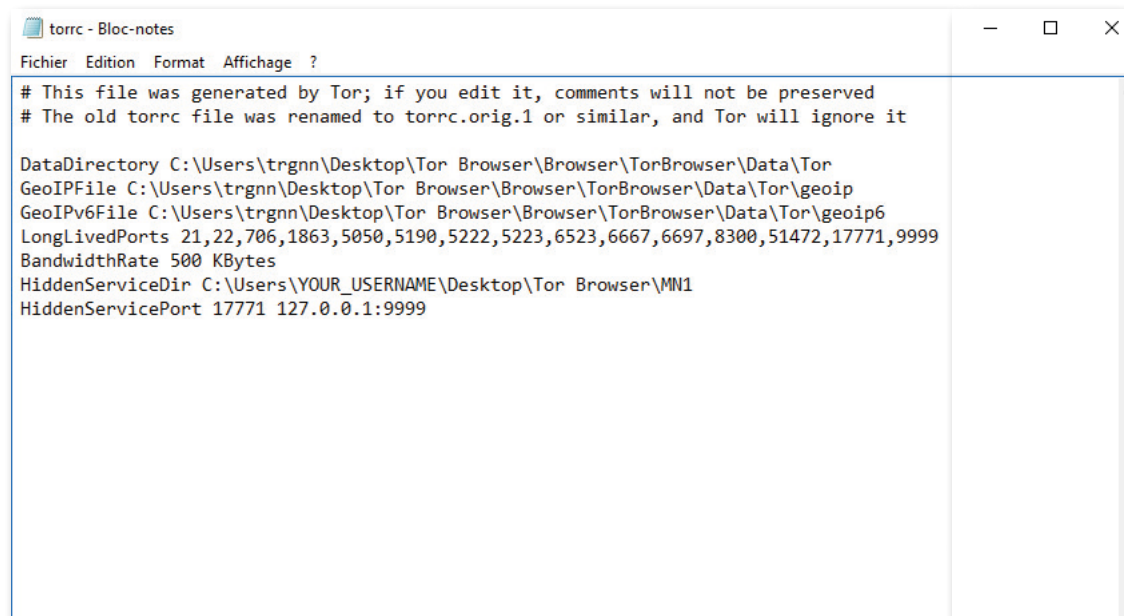
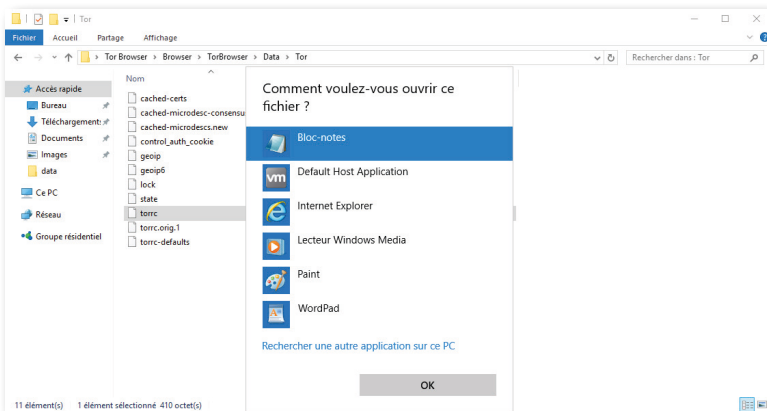
3

At this point, Windows is updated and Tor is working. Close it. We need now to configure Tor to provide onion hidden services for our masternode.

Go to `C:\Users\your_username\Desktop\Tor Browser\Browser\TorBrowser\Data\Tor` open `torrc` with notepad and add:

```
LongLivedPorts 17771,9999
BandwidthRate 500 KBytes
HiddenServiceDir C:\Users\YOUR_USERNAME\Desktop\Tor Browser\MN1
HiddenServicePort 17771 127.0.0.1:9999
```

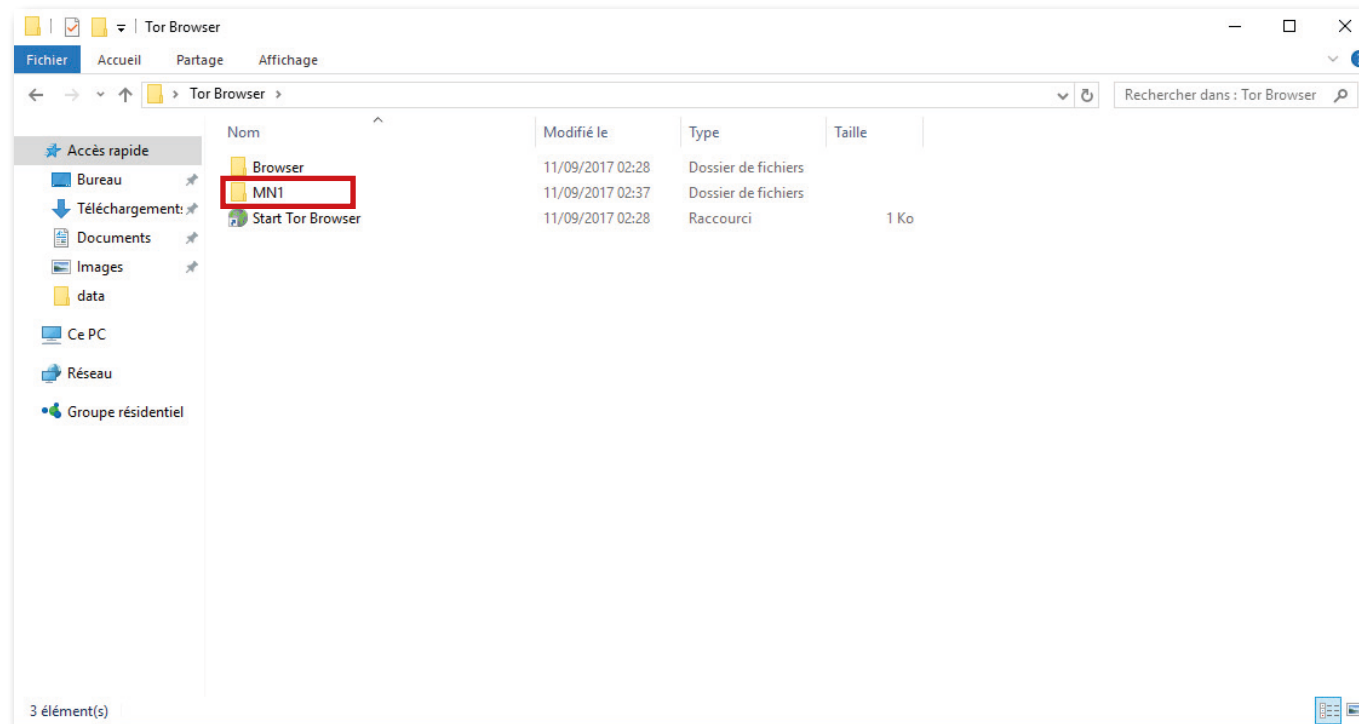
Save and close `torrc`.



torrc should look like this.

Close and restart Tor Browser, it should create a new folder named MN1

We're ready for installing our masternode!

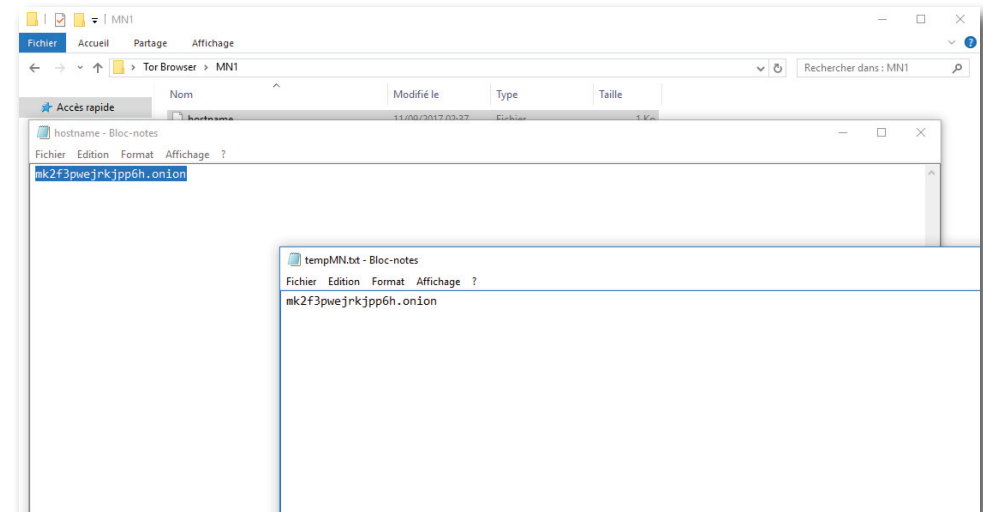
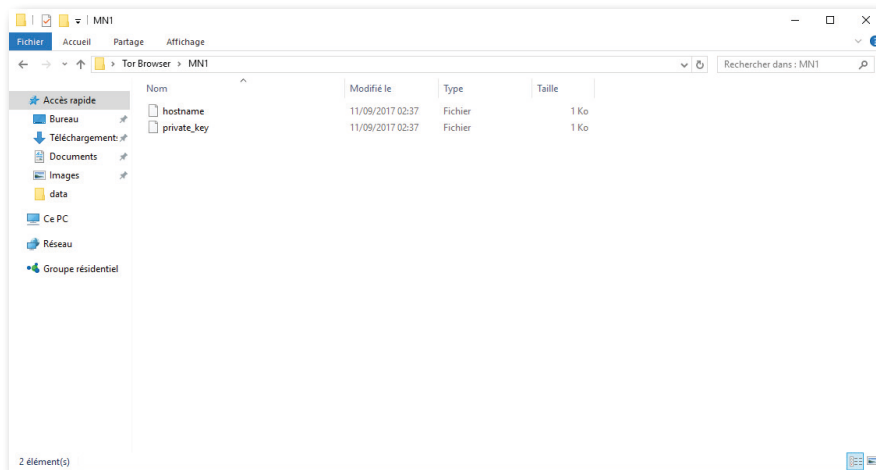


4

Open notepad and save a temporary .txt file we are going to use for storing the data we will need later to configure our masternode. Name it **tempMN1.txt**

Open `C:\Users\your_username\Desktop\Tor Browser\MN1\hostname`

Copy its content in tempMN1.txt



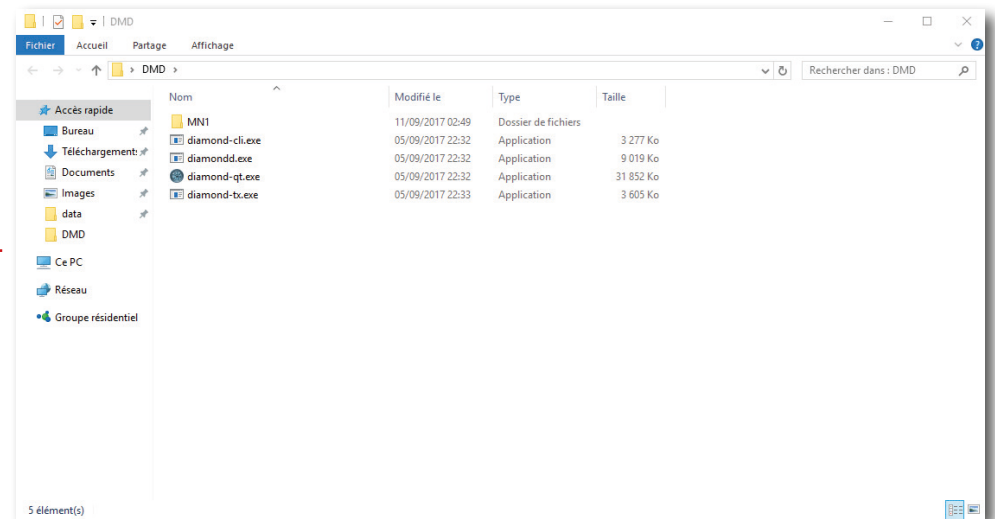
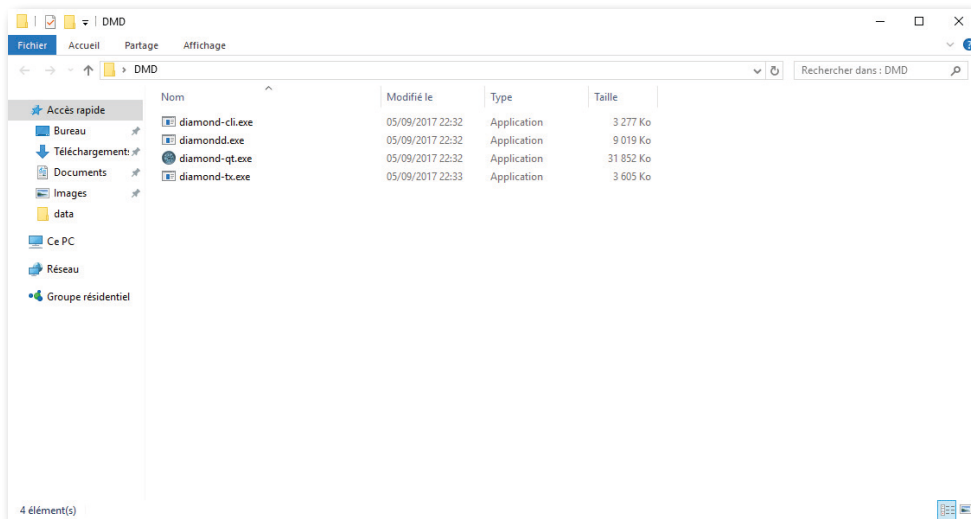
Download DMDv3 Windows Wallet from <http://bit.diamonds/>

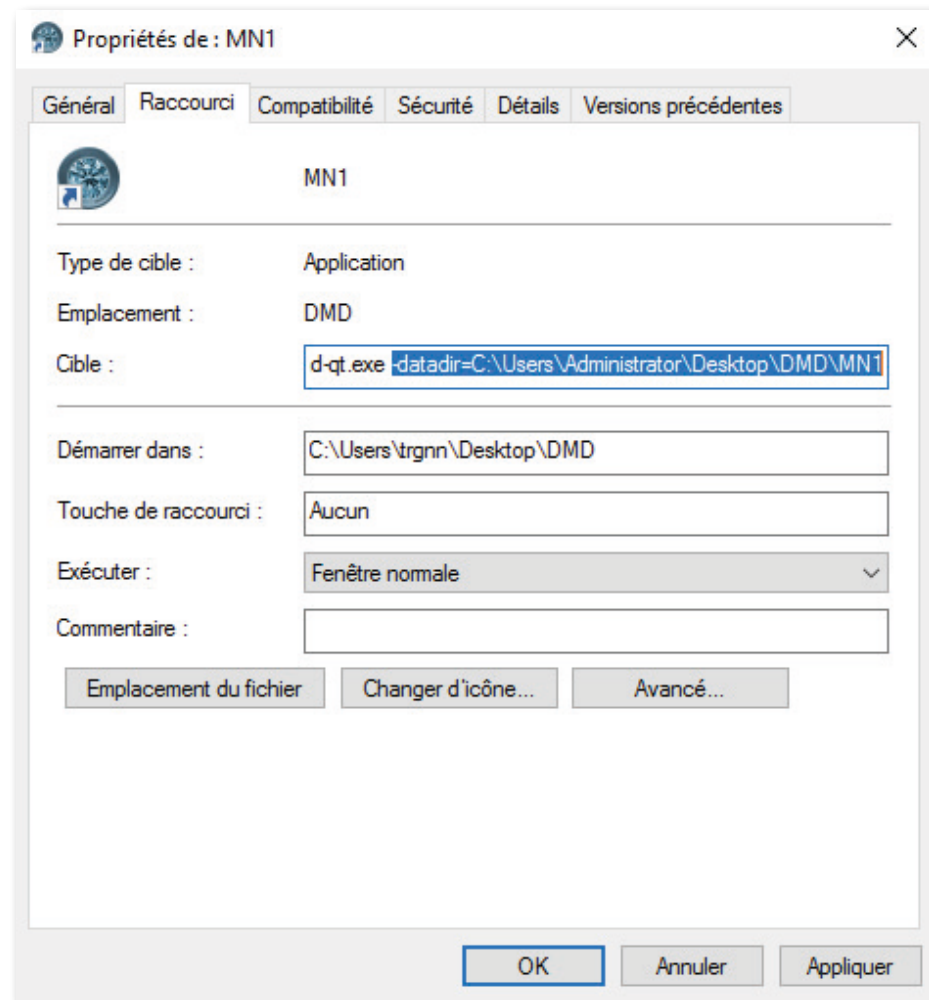
Create a folder on your desktop. Name it DMD.

Create a folder named MN1 in our DMD folder

Copy diamond-qt.exe, diamond-cli.exe, diamondd.exe and diamond-tx.exe in

C:\Users\your_username\Desktop\DMD





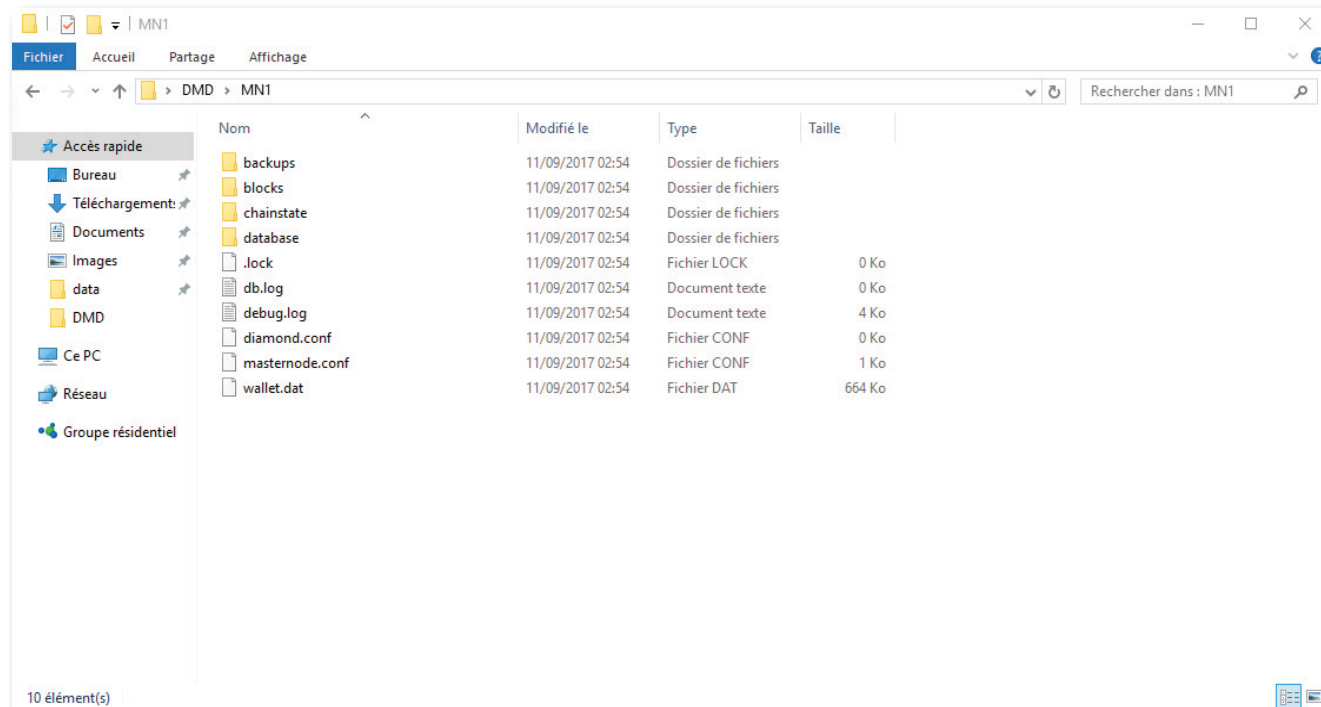
Create a desktop shortcut to diamond-qt.exe. Name it **MN1**
Edit its properties and add: `-datadir=C:\Users\your_username\Desktop\DMD\MN1` to the end of the target field.

Now we have an easily reachable masternode data folder.

5

Use the MN1 shortcut we created and our masternode wallet. Allow it to connect through windows firewall when prompted. It will now generate its needed files in `C:\Users\your_username\Desktop\DMD\MN1`

Close it.



Now we will use the coins we have to fill the masternode and generate the genkey we need. Go to the receive tab, enter MN1 as label and click on request payment. Copy the address.

DMD Diamond Core - Wallet 3.0.0.9 - Wallet

File Settings Tools Help

Overview Send **Receive** Transactions Masternodes Coinmix

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

Label:

Amount: DMD

Message:

☐ Reuse an existing receiving address (not recommended)

Request payment Clear

Requested payments history

| Date | Label | Message | Amount (DMD) |
|------------------|------------|--------------|--------------|
| 12/09/2017 00:18 | (no label) | (no message) | (no amount) |
| 11/09/2017 23:42 | (no label) | (no message) | (no amount) |
| 11/09/2017 23:41 | MN1 | (no message) | (no amount) |
| 11/09/2017 03:00 | (no label) | (no message) | (no amount) |

Show Remove

DMD

Request payment to MN1

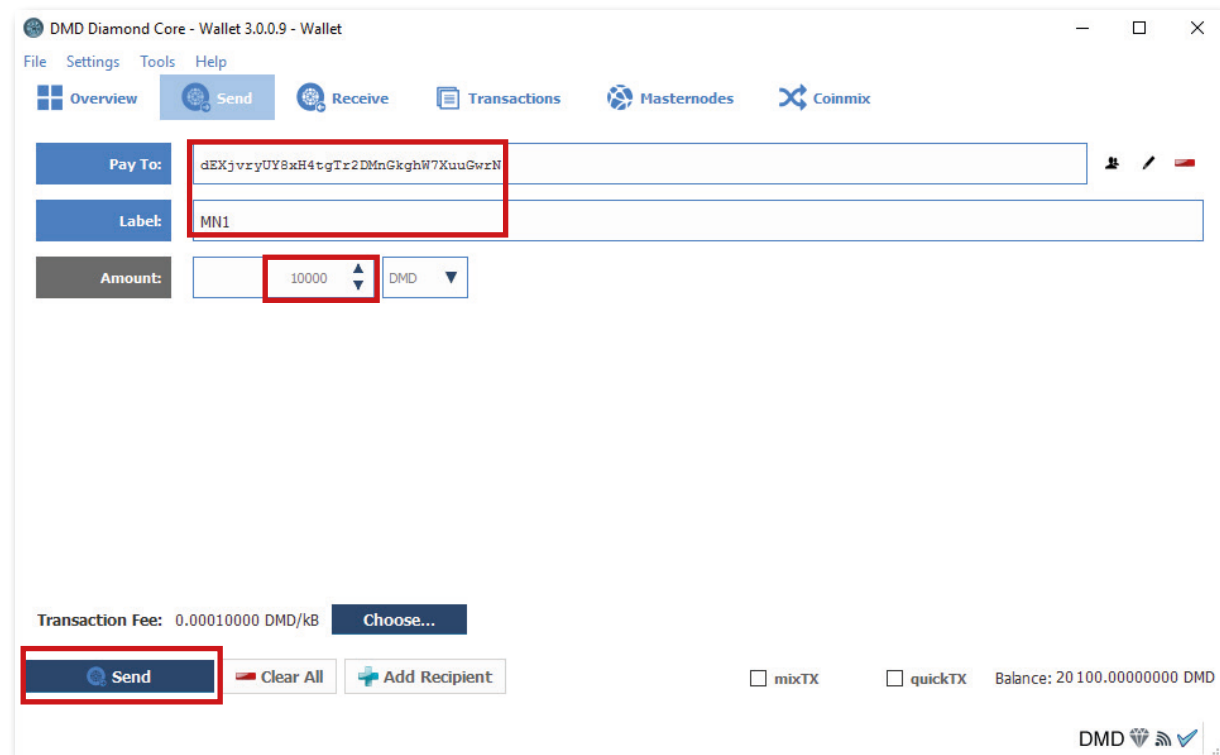


Payment information
URI: <diamond:dRTtjZpvS1RPJeSJQOmXn4QsWDVe8w89Ay?label=MN1>
Address: [dRTtjZpvS1RPJeSJQOmXn4QsWDVe8w89Ay](diamond:dRTtjZpvS1RPJeSJQOmXn4QsWDVe8w89Ay)
Label: MN1

Copy URI Copy Address Save Image... Close

Go to the send tab, the address you copied, MN1 as label and 10'000 DMD.

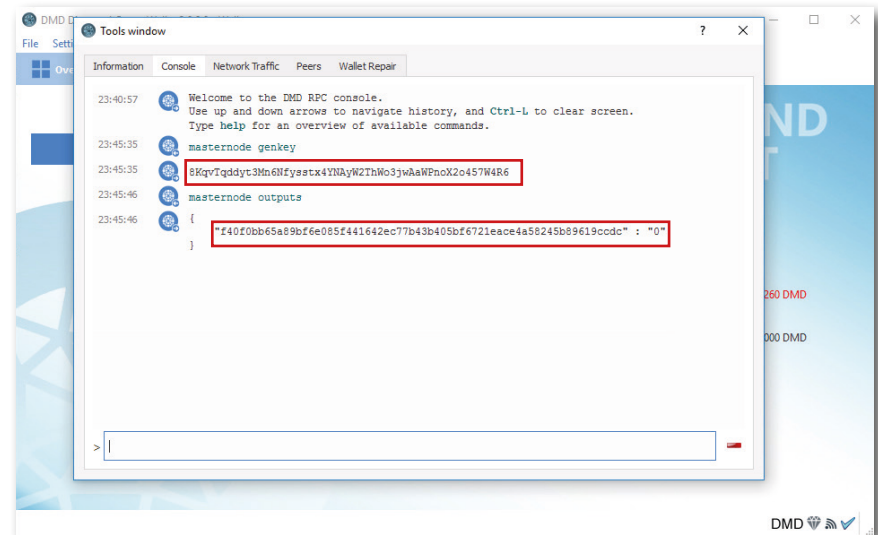
Click Send.



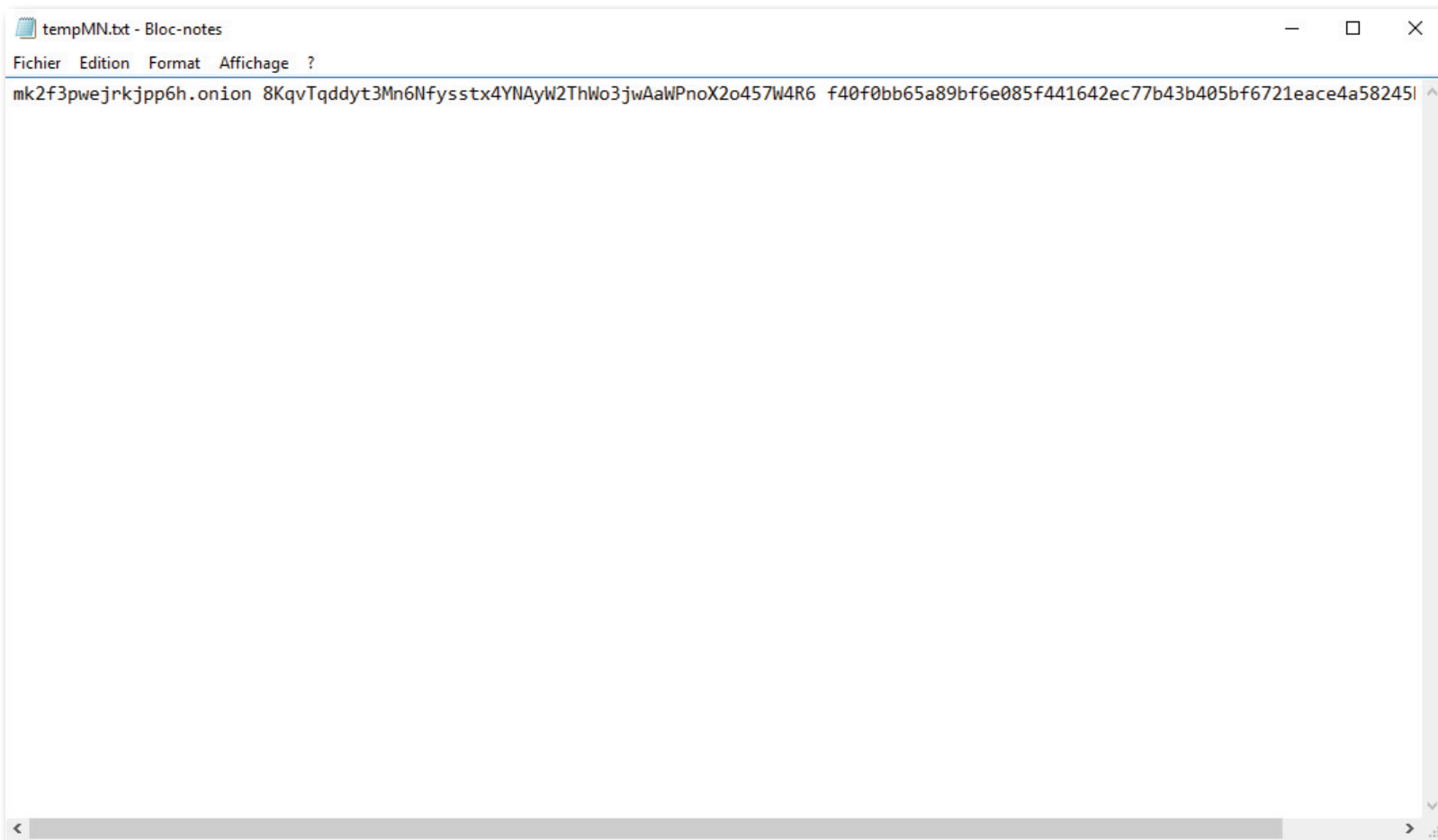
Important! The amount have to be 10'000. This transaction is the necessary condition to generate the masternode output we will need later. What we just did was sending 10'000 DMD to ourselves.

6

Go to the debug console and execute the commands:
`masternode genkey`
`masternode outputs`

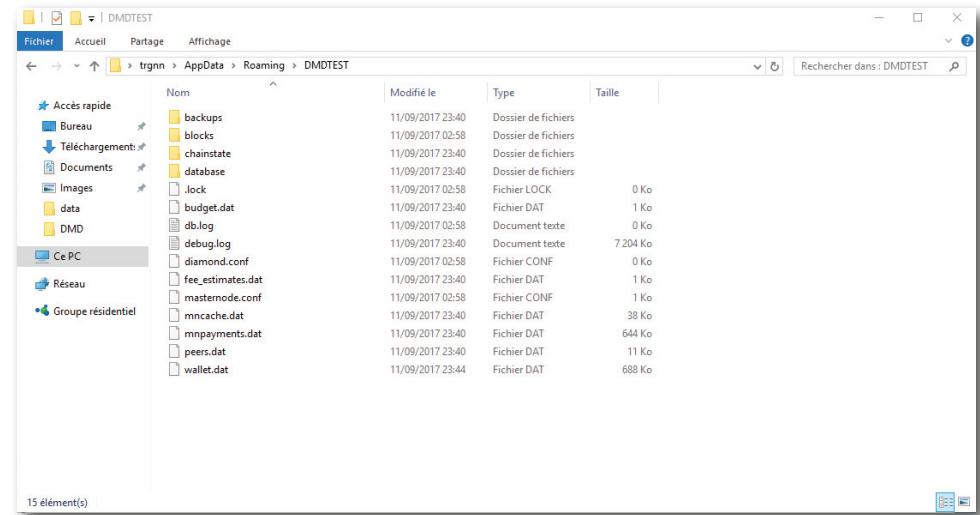


Copy the genkey and output



Paste the genkey and output into tempMN1.txt. The format is:
<onion address> <masternode genkey> <masternode output>
We will need this format later for setting up our masternode.conf

Go to `C:\Users\your_username\Desktop\DMD\MN1` and open `masternode.conf`. Copy the content of `tempMN1.txt` into `masternode.conf`.



```
masternode.conf - Bloc-notes
Fichier Edition Format Affichage ?

# Masternode config file
# Format: alias IP:port masternodeprivkey collateral_output_txid collateral_output_index
# Example: mn1 127.0.0.2:51474 93HaYBVUCYjEMeeH1Y4sBGLALQZE1Yc1K64xiqgX37tG0DQL8Xg 2bcd3c84c84f87eaa86e4e56834c92927a07f9e18718810b92e0d0324456a67c 0
MN1 mk2f3pwejrkJpp6h.onion:17771 8KqvTqddyT3Mn6Nfysstx4YNAYW2ThWo3jwAaWpNoX2o457W4R6 f40f0bb65a89bf6e085f441642ec77b43b405bf6721eace4a58245b89619ccdc 0
```

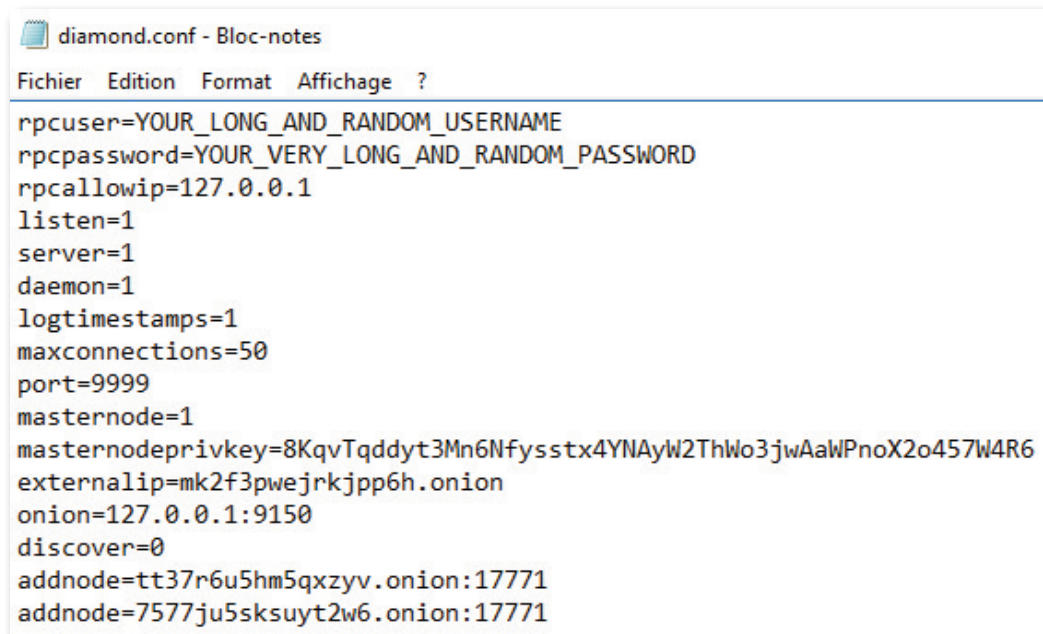
Add MN1 before `<onion address>:17771 <masternode genkey> <masternode output>`
Save and close `masternode.conf`. Close the wallet.

Now we are going to setup the wallet diamond.conf for allowing it to talk through Tor and start working as masternode.

Go to `C:\Users\your_username\Desktop\DMD\MN1`
Open diamond.conf and edit it like this:

```
rpcuser=YOUR_LONG_AND_RANDOM_USERNAME  
rpcpassword=YOUR_VERY_LONG_AND_RANDOM_PASSWORD  
rpccallowip=127.0.0.1  
rpccallowip=127.0.0.1  
listen=1  
server=1  
daemon=1  
logtimestamps=1  
maxconnections=50  
port=9999  
masternode=1  
masternodeprivkey=8KqvTqddyt3Mn6Nfysstx4YNAYW2ThWo3jwAaWPnoX2o457W4R6  
externalip=mk2f3pwejrjpp6h.onion  
onion=127.0.0.1:9150  
discover=0  
addnode=tt37r6u5hm5qxzyv.onion:17771  
addnode=7577ju5ksuyt2w6.onion:17771
```

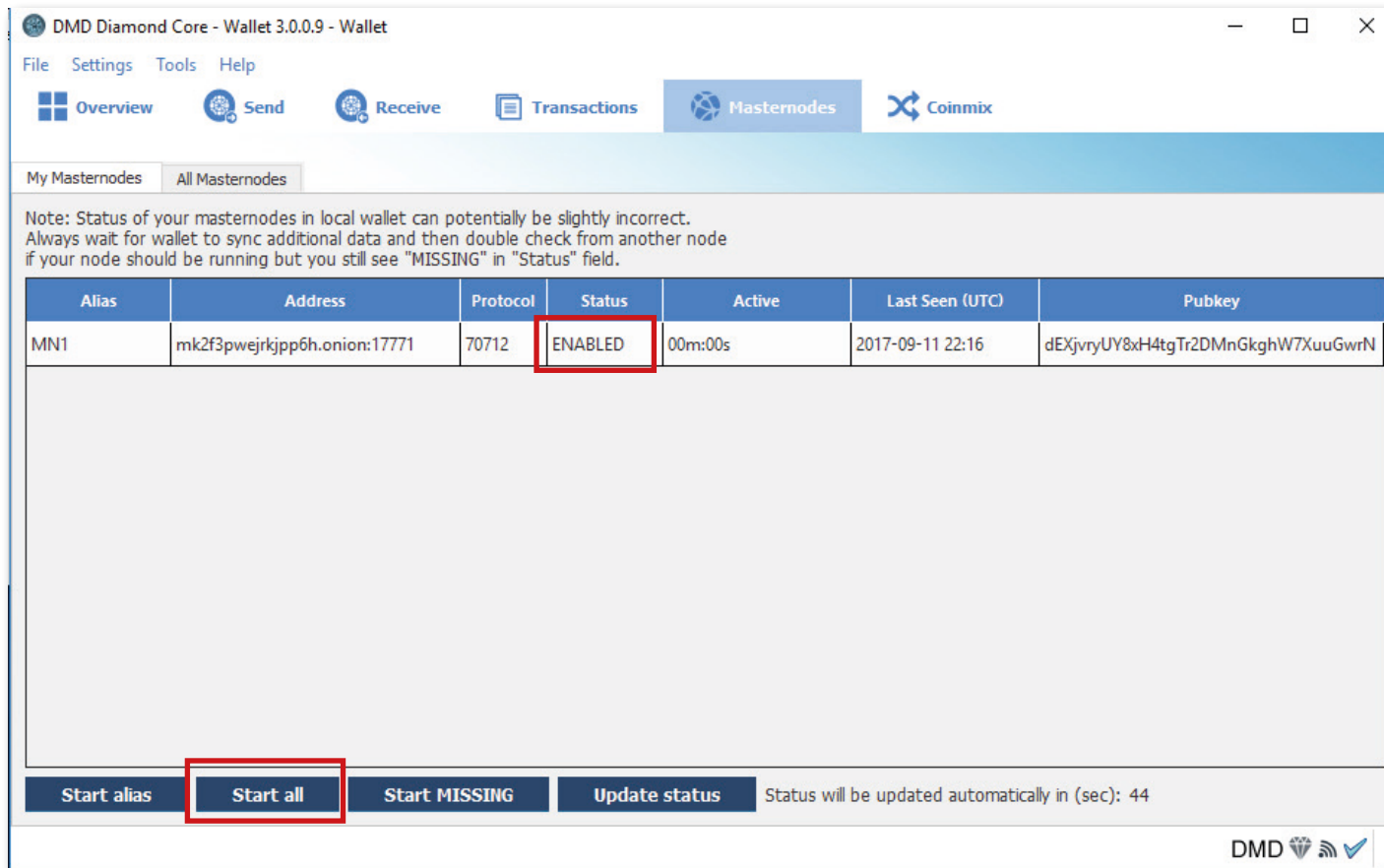
We have to edit diamond.conf for making sure the onion services we configured find their way to the right diamond node. We have to setup diamond.conf according to the onion services addresses we setted up earlier in torrc.



```
diamond.conf - Bloc-notes
Fichier  Edition  Format  Affichage  ?
rpcuser=YOUR_LONG_AND_RANDOM_USERNAME
rpcpassword=YOUR_VERY_LONG_AND_RANDOM_PASSWORD
rpcallowip=127.0.0.1
listen=1
server=1
daemon=1
logtimestamps=1
maxconnections=50
port=9999
masternode=1
masternodeprivkey=8KqvTqddyt3Mn6Nfysstx4YNAyW2ThWo3jwAaWPnoX2o457W4R6
externalip=mk2f3pwejrkJpp6h.onion
onion=127.0.0.1:9150
discover=0
addnode=tt37r6u5hm5qxzyv.onion:17771
addnode=7577ju5sksuyt2w6.onion:17771
```

Our masternode diamond.conf should look like this.

Start your wallet by using the MN1 shortcut, go to the masternode tab and click Start all to start our masternode.



Important! The onion hidden service only work if Tor Browser is running.

Happy masternodding :)