

## Bitcoin Green (BITG) Masternode Setup Guide:

A Bitcoin Green masternode requires 2500 BITG of collateral to operate. This guide will show you how to get started with mining Bitcoin Green through masternode proof-of-stake. Start out by downloading the BITG Wallet from [\\_\\_](#) and running bitcoingreen-qt.

*NOTE: You can run your hot wallet on a different computer than your cold wallets. This can increase security by keeping your hot wallet (with coins) on your local computer. To do this, complete steps 1-10 on your local machine's wallet (editing masternode.conf), and then do the rest on your VPS wallet (editing bitcoingreen.conf).*

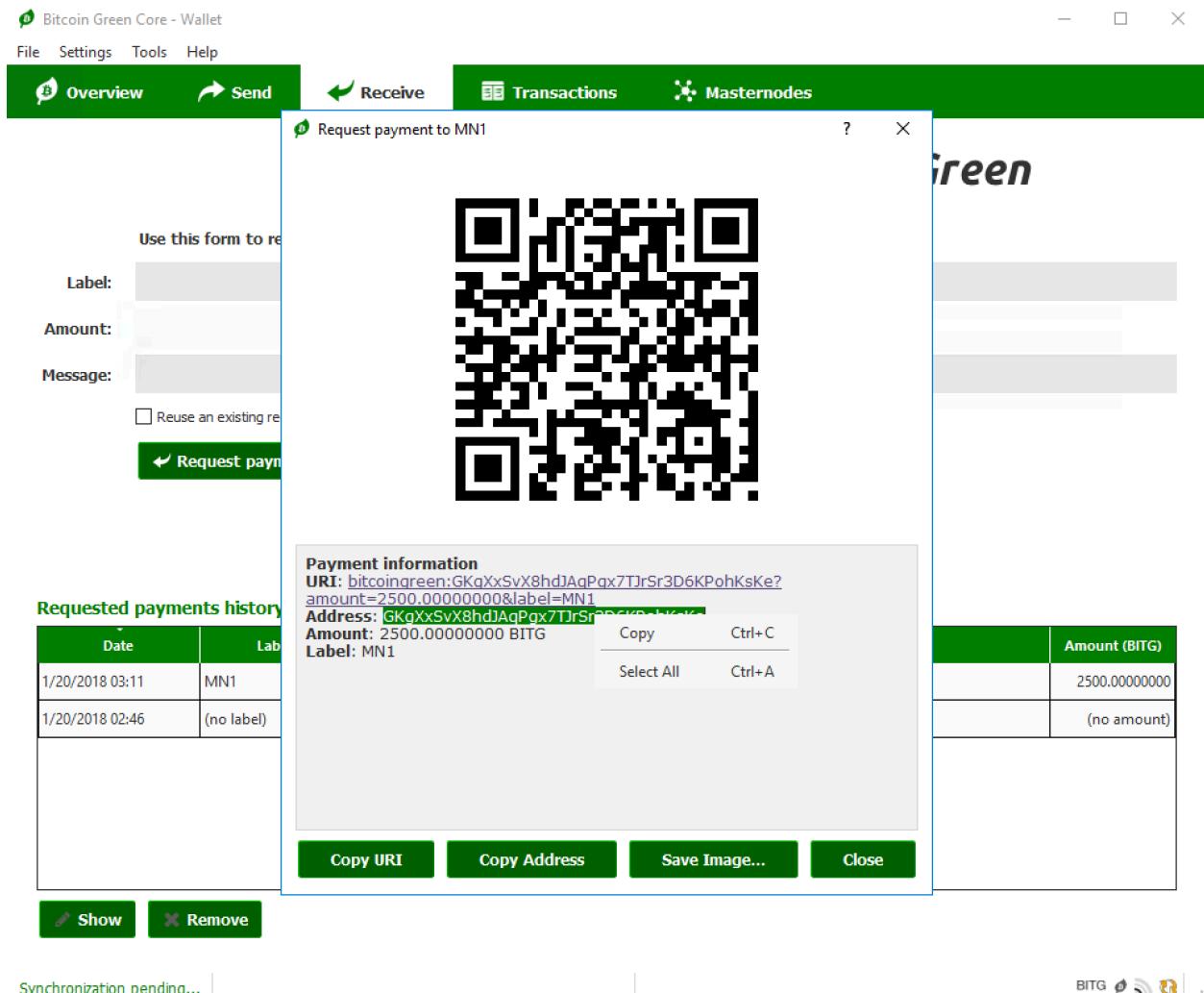
1. Click the Receive tab in your wallet. Create a new address and call it MN1 in the Label field. Type 2500 in the Amount field. Click request payment to get an address.

The screenshot shows the Bitcoin Green Core - Wallet application window. The title bar reads "Bitcoin Green Core - Wallet". The menu bar includes "File", "Settings", "Tools", and "Help". The top navigation bar has tabs for "Overview", "Send", "Receive" (which is highlighted in green), "Transactions", and "Masternodes". The main area features the Bitcoin Green logo and the text "Bitcoin Green". Below this is a form titled "Use this form to request payments. All fields are optional." It contains fields for "Label" (set to "MN1"), "Amount" (set to "2500.00000000 BITG"), and "Message". There is a checkbox for "Reuse an existing receiving address (not recommended)". At the bottom are two buttons: "Request payment" and "Clear".

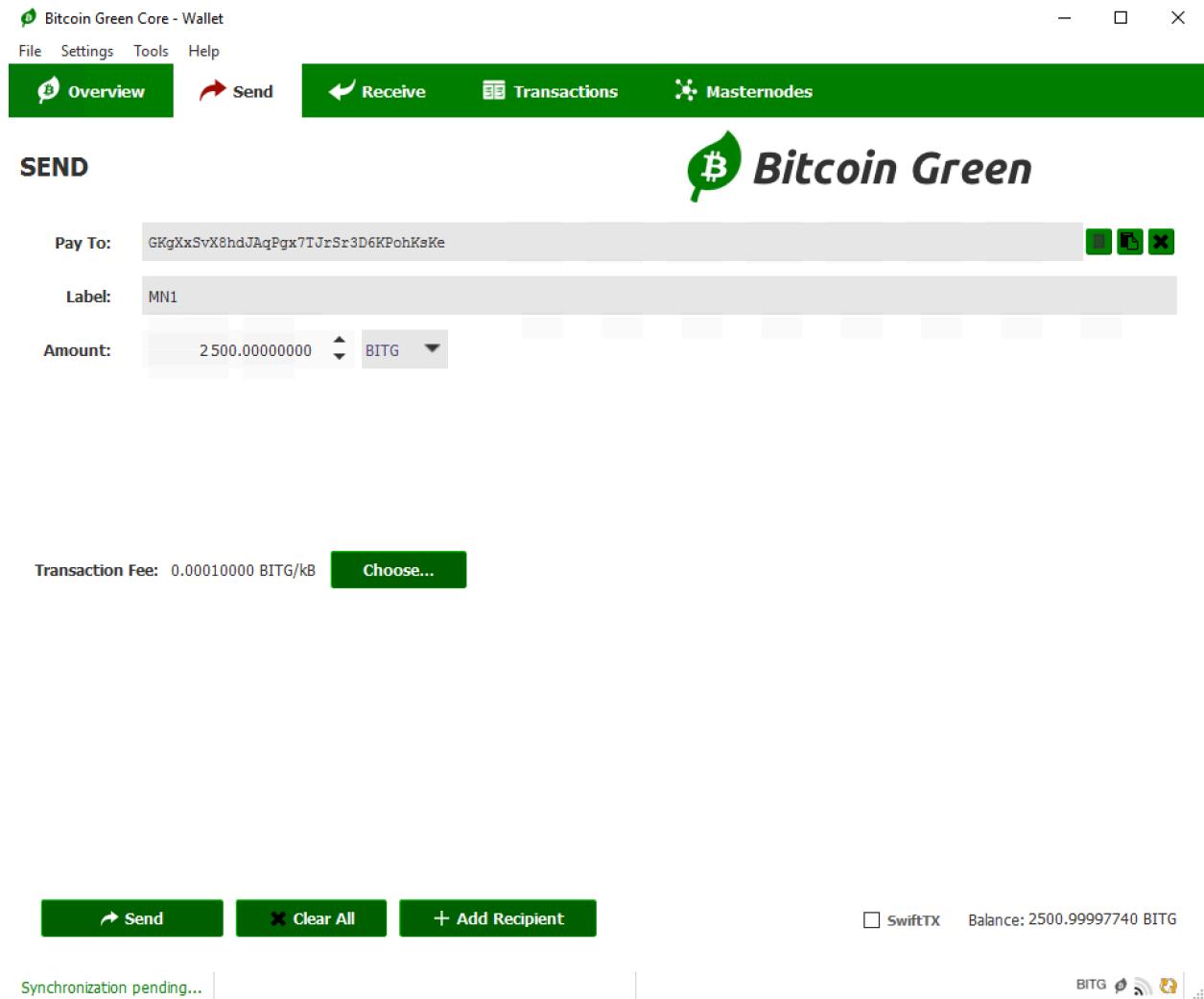
Date	Label	Message	Amount (BITG)
1/20/2018 02:46	(no label)	(no message)	(no amount)

At the bottom left are "Show" and "Remove" buttons. At the bottom right are status icons for "BITG", "Sync", "Battery", and "Signal". A status bar at the bottom says "Synchronization pending...".

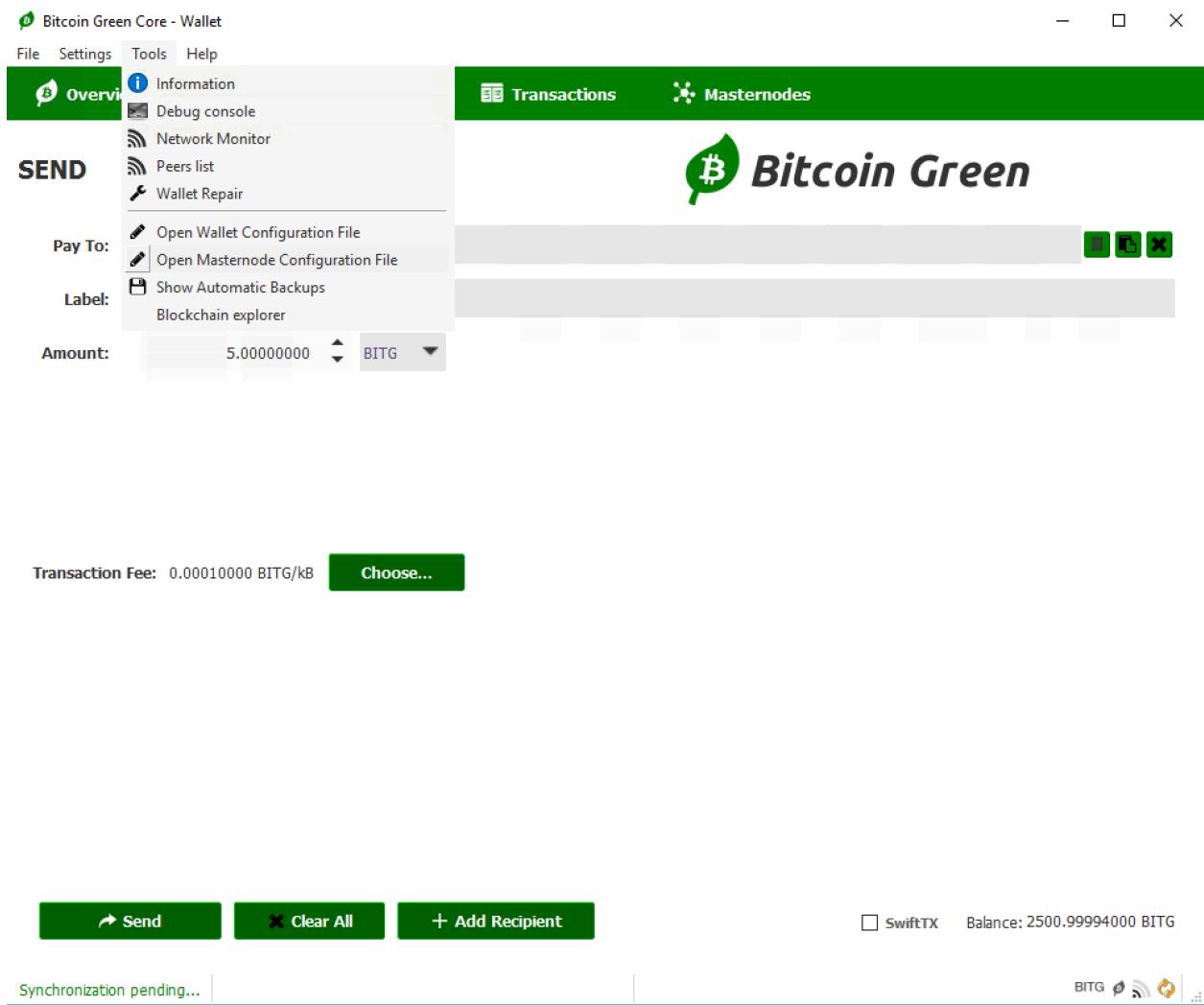
2. This will be the address for your masternode collateral. Copy the Address field.



3. Next, send exactly 2500 BITG to this address from the Send tab. Click send to send the transaction and click Yes to accept the fee.



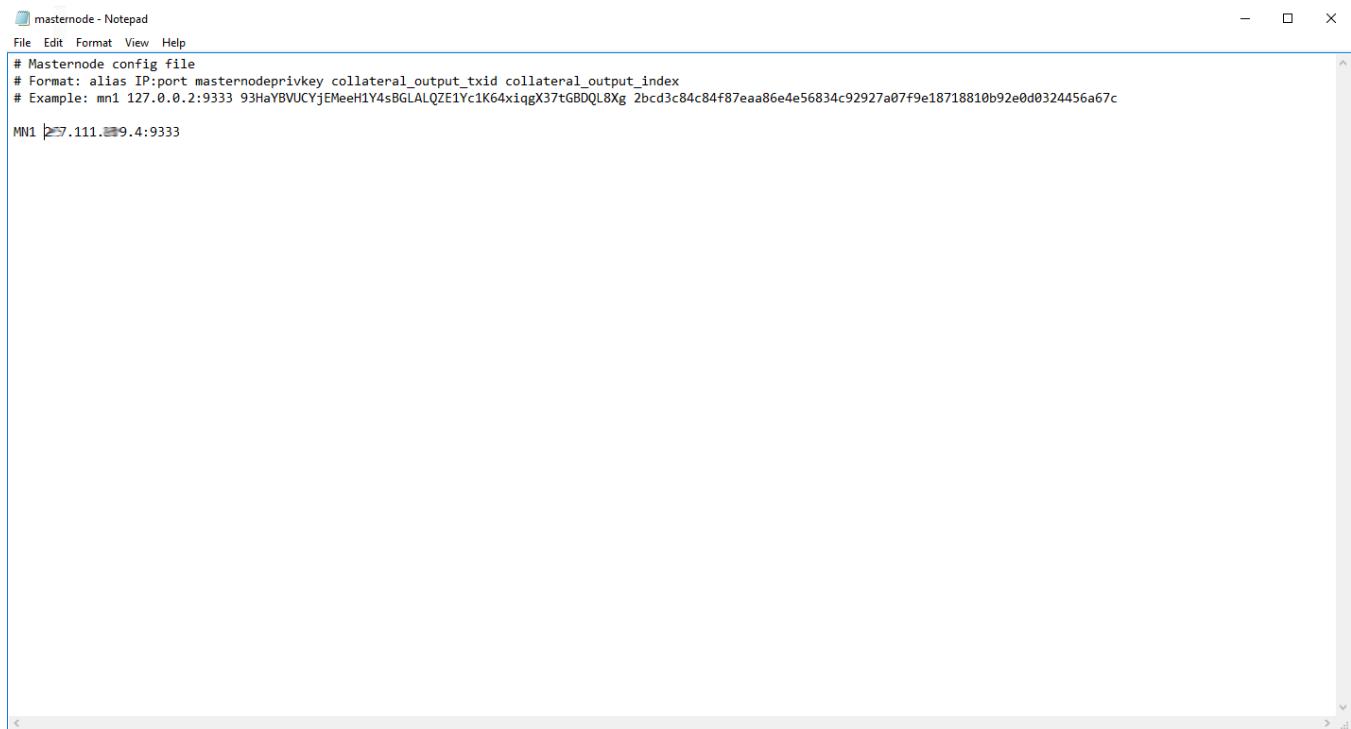
4. Time to edit the Masternode Configuration file. Click on Tools and click “Open Masternode Configuration File”. This should open in your text editor (Notepad).



- Now we need to add 1 line of code to the Masternode Configuration file. This is easy. It just takes a few steps. You need to fill out the following code format:

**alias IP:port masternodeprivkey collateral\_output\_txid collateral\_output\_index**

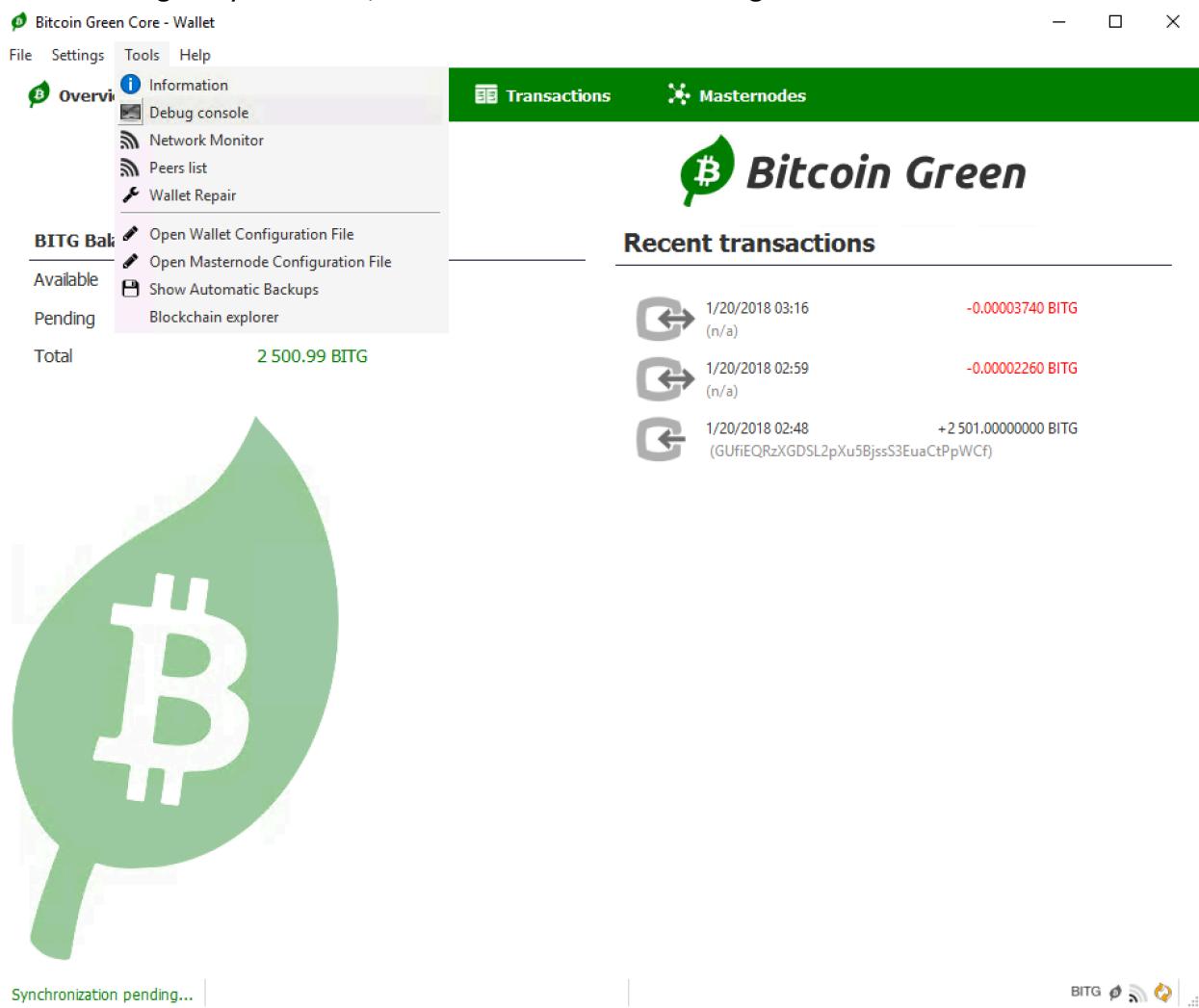
Your alias is your masternode name (MN1). Next, you need your VPS or host computer IP address. If you use ZapHosting, this can be found on your user dashboard. The port for Bitcoin Green is 9333. Your config file should now look like this:



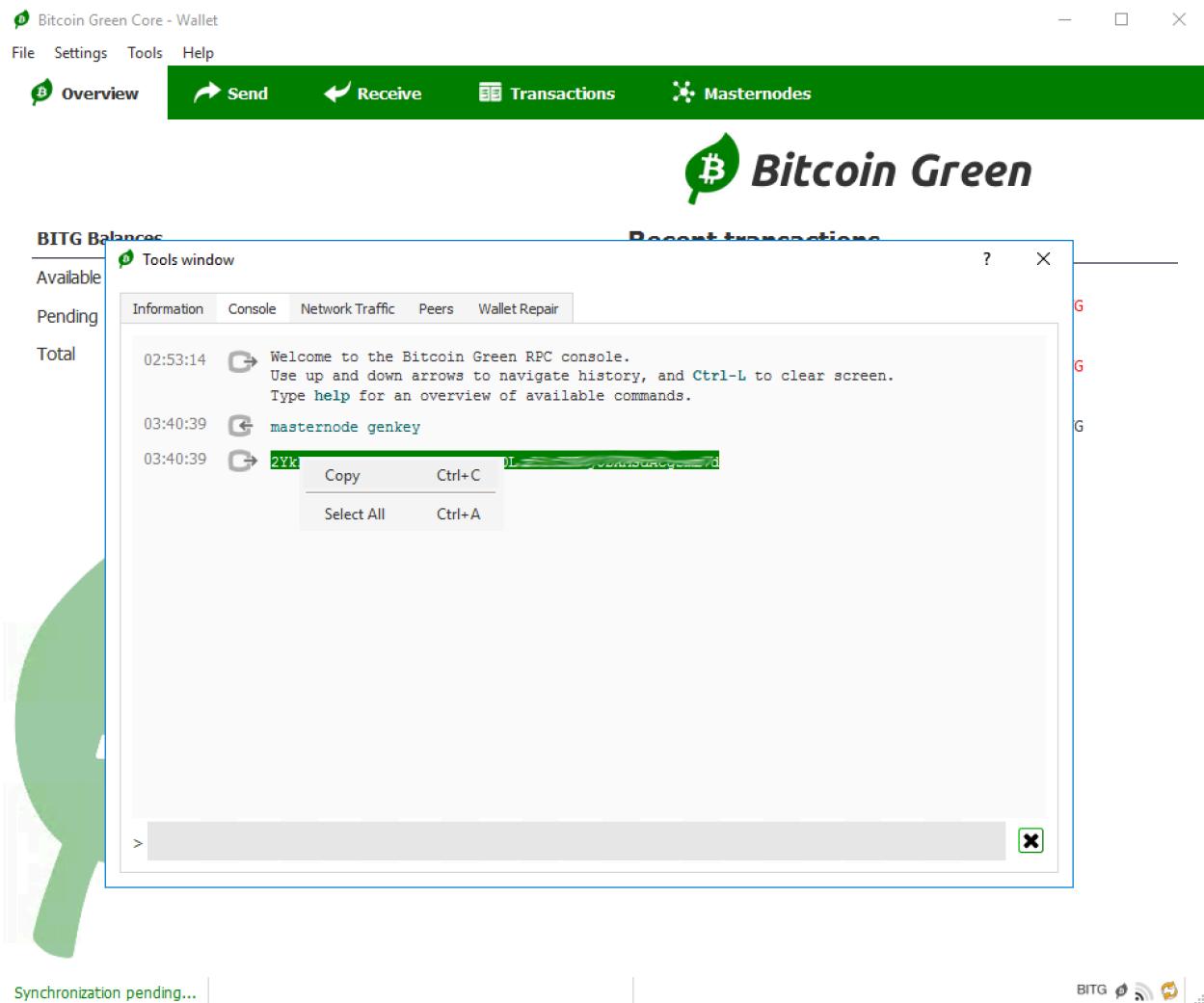
The screenshot shows a Windows Notepad window titled "masternode - Notepad". The menu bar includes File, Edit, Format, View, and Help. The content of the text area is as follows:

```
# Masternode config file
# Format: alias IP:port masternodeprivkey collateral_output_txid collateral_output_index
# Example: mn1 127.0.0.2:9333 93HaYBVUCYjEMeeH1Y4sBGLALQZE1Yc1K64xiqgX37tGBDQL8Xg 2bcd3c84c84f87eaa86e4e56834c92927a07f9e18718810b92e0d0324456a67c
MN1 [REDACTED].111.111.4:9333
```

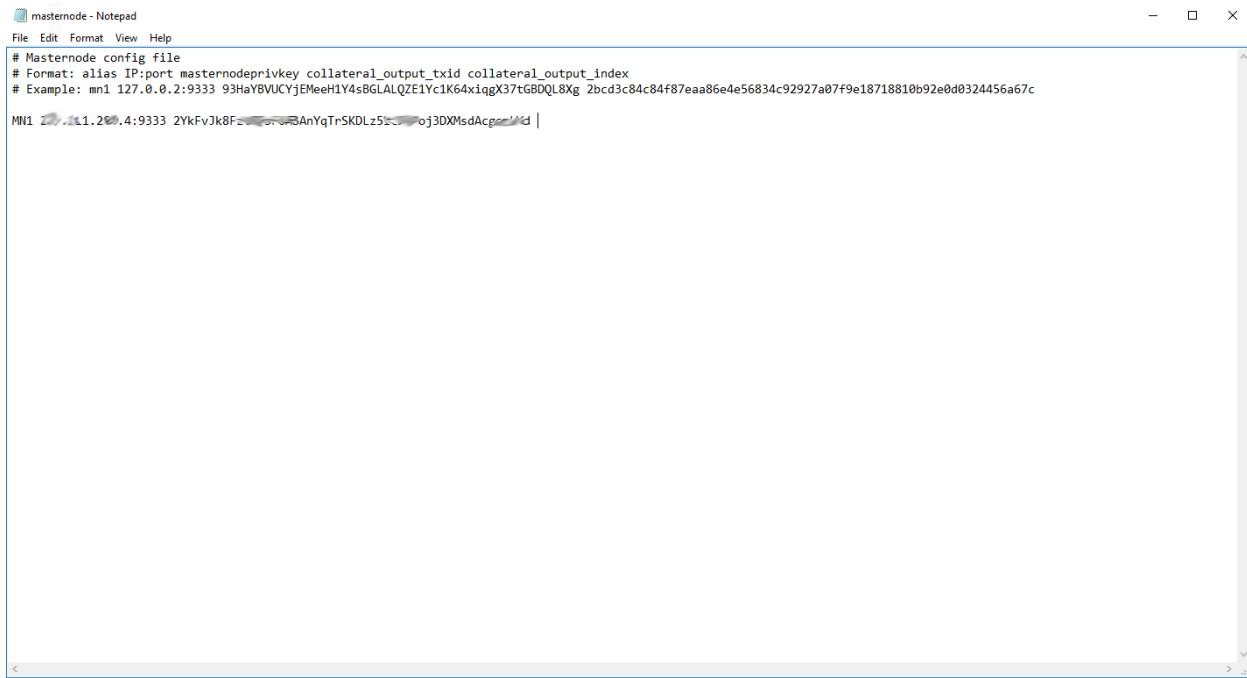
6. Now go to your wallet, click Tools and click the Debug Console.



7. Type “masternode genkey” and press Enter. Copy the result.



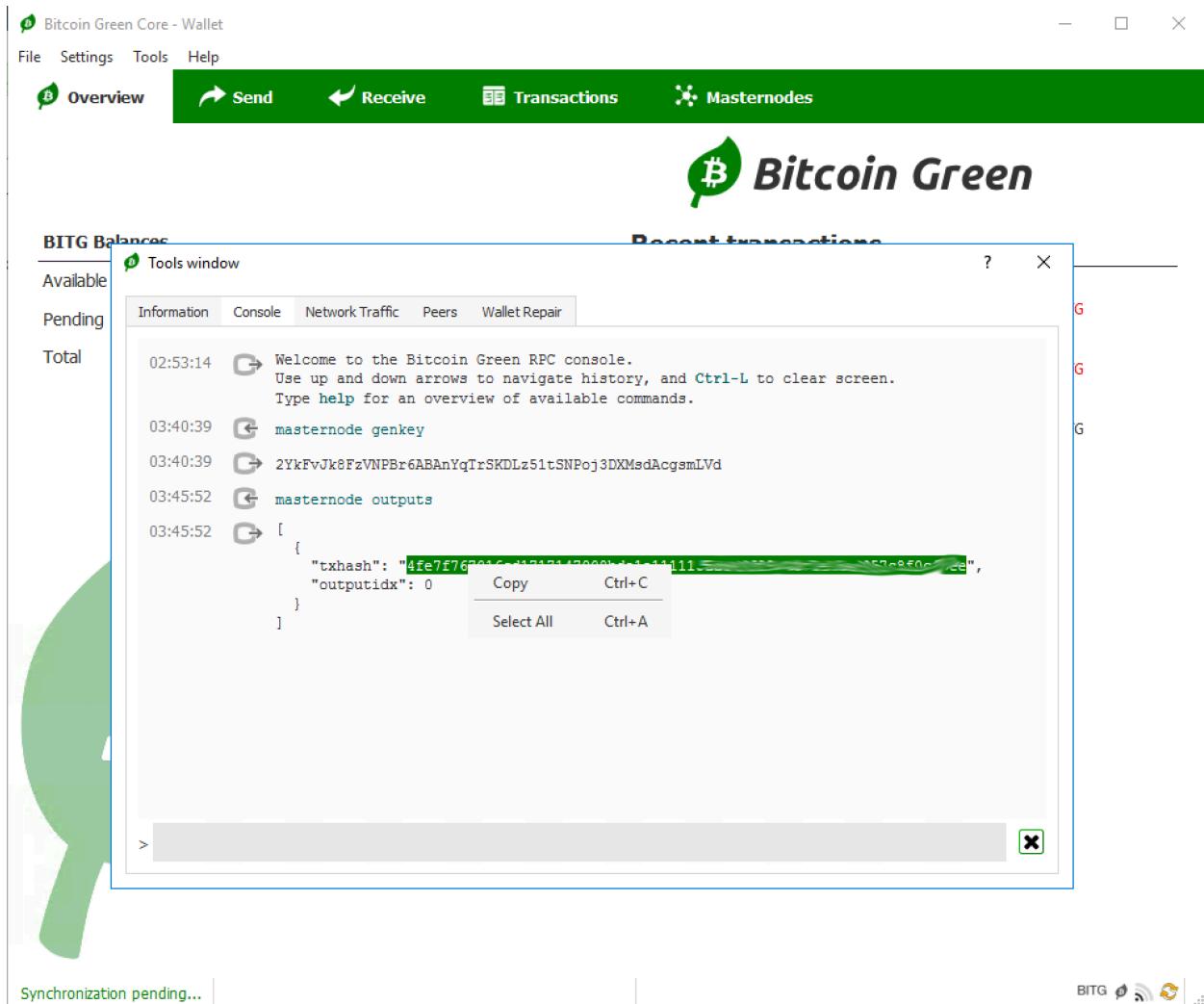
## 8. Paste into your Masternode config file.



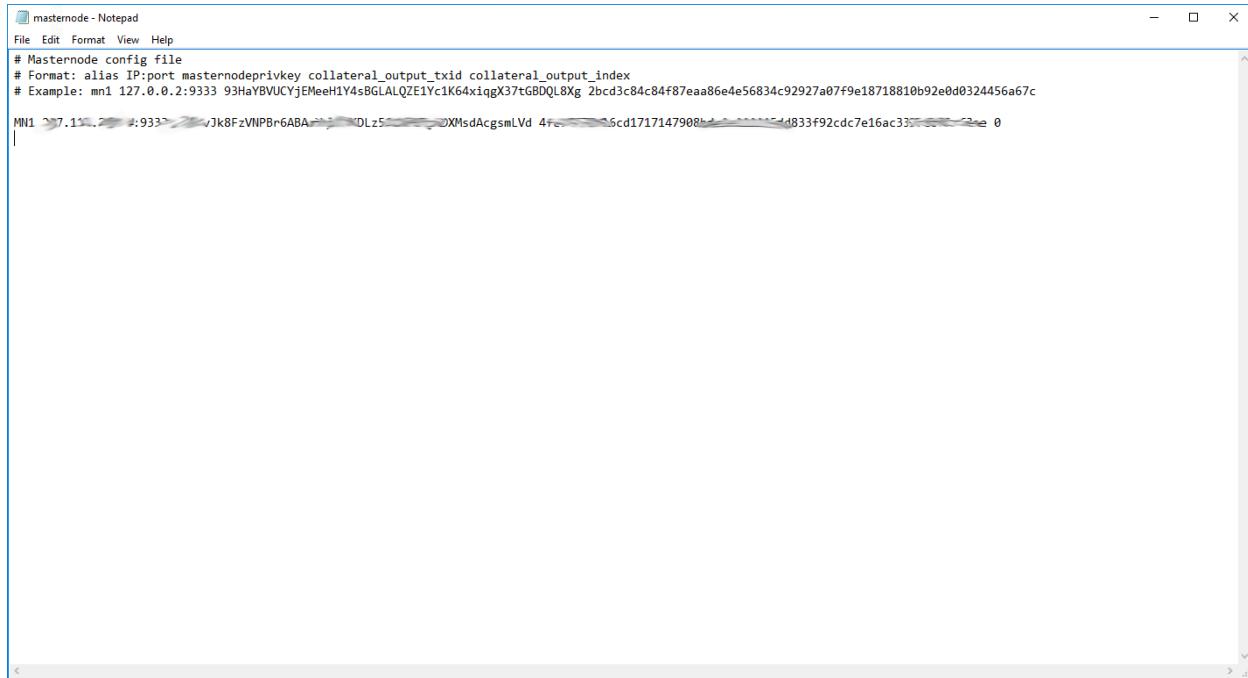
A screenshot of a Windows Notepad window titled "masternode - Notepad". The menu bar includes File, Edit, Format, View, and Help. The main text area contains a masternode configuration file with the following content:

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MN1 127.0.0.4:9333 2YkFvJk8F...AnYqTrSKDLz5...oj3DXMsdaCp... |
```

9. Go back to the debug console and type “masternode outputs” and press enter. Copy the txhash and note the outputidx.



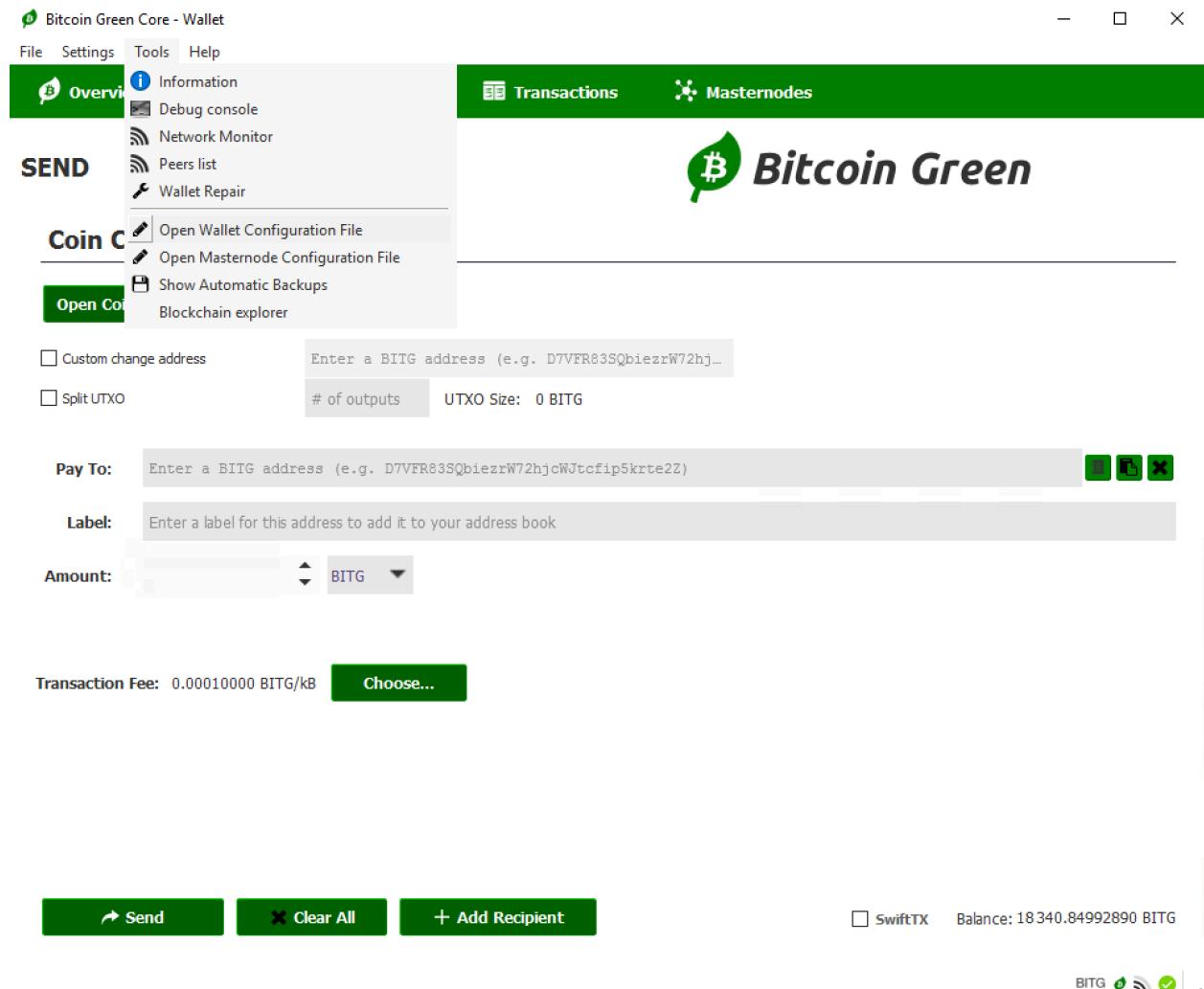
10. Paste the txhash into the masternode config file. Don't forget the outputidx. Save the masternode config file and then close the wallet.



The screenshot shows a Windows Notepad window titled "masternode - Notepad". The menu bar includes File, Edit, Format, View, and Help. The main text area contains a masternode configuration file with the following content:

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MN1 127.0.0.2:9333 Jk8FzVNPBr6ABA DLz5 XMsdAcgsmLVd 4 5cd1717147908h 1d833f92cdc7e16ac33 0
```

11. Now you need to edit the wallet config file. Open the Wallet Configuration File from the Tools menu.



12. When you open your wallet config, it should be blank. Below is what your config file needs to be. Copy paste this into bitcoingreen.conf.

```
rpcuser=longrandomusername
rpcpassword=longerrandompassword
rpccallowip=127.0.0.1
listen=1
server=1
daemon=1
logtimestamps=1
maxconnections=256
masternode=1
port=9333

addnode=51.15.198.252
addnode=51.15.206.123
addnode=51.15.66.234
addnode=51.15.86.224
addnode=51.15.89.27
addnode=51.15.57.193
addnode=134.255.232.212
addnode=185.239.238.237
addnode=185.239.238.240

masternodeaddr=IP:port
masternodeprivkey=masternodeprivkey
```

Add your **IP:Port** and **masternodeprivkey**. Also, change the rpcuser and rpcpassword to something random. Keep everything else the same, then Save:



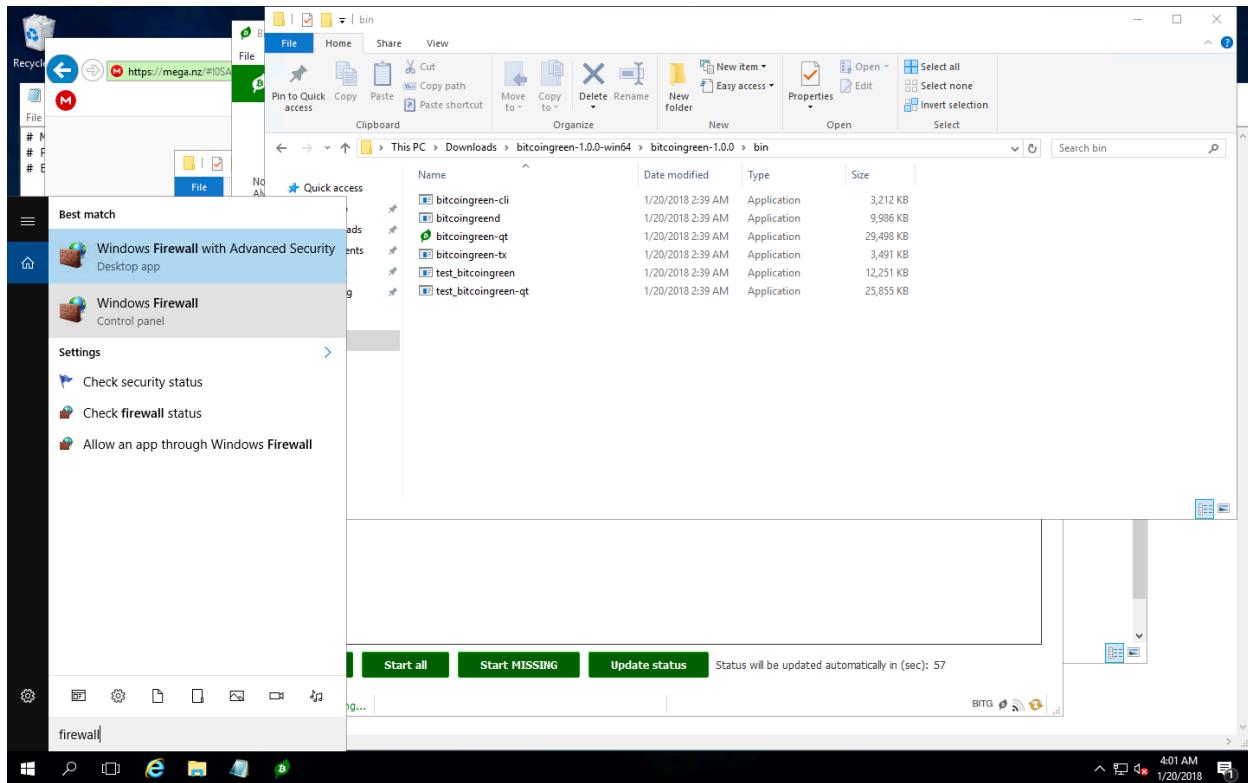
13. Restart the wallet. Now your masternode should show up in the Masternodes tab.

The screenshot shows the Bitcoin Green Core - Wallet application window. The title bar reads "Bitcoin Green Core - Wallet". The menu bar includes "File", "Settings", "Tools", and "Help". Below the menu is a green navigation bar with tabs: "Overview" (selected), "Send", "Receive", "Transactions", and "Masternodes". The main content area has a logo for "Bitcoin Green" and a note: "Note: Status of your masternodes in local wallet can potentially be slightly incorrect. Always wait for wallet to sync additional data and then double check from another node if your node should be running but you still see "MISSING" in "Status" field." A table displays masternode information:

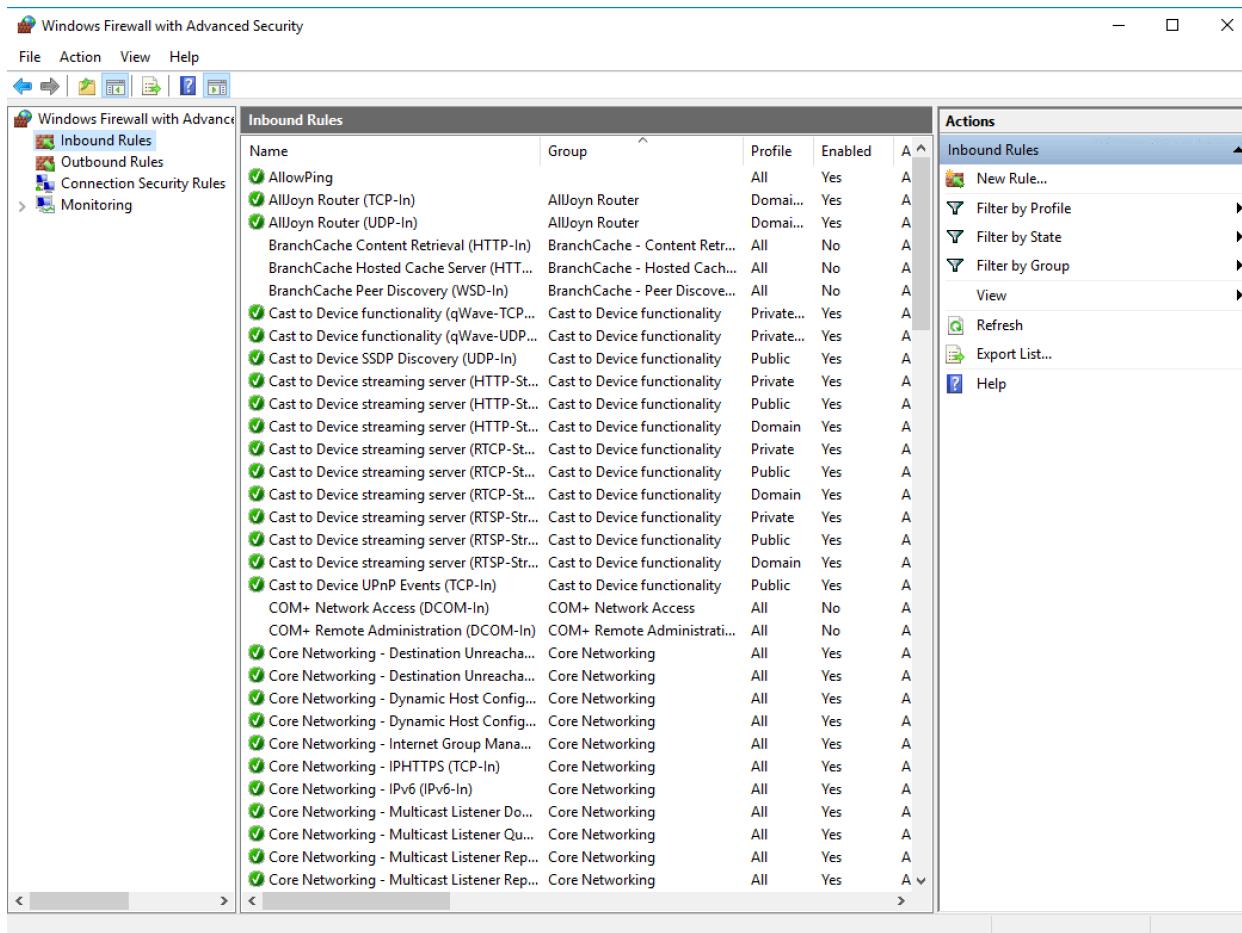
Alias	Address	Protocol	Status	Active	Last Seen (UTC)	Pubkey
MN1	[REDACTED]	70912	ENABLED	00m:00s	2018-01-20 11:54	[REDACTED]

At the bottom, there are four green buttons: "Start alias", "Start all", "Start MISSING", and "Update status". To the right of the "Update status" button is the text "Status will be updated automatically in (sec): 29". Below the buttons, it says "Synchronization pending...". The bottom right corner shows the BITG logo and some network icons.

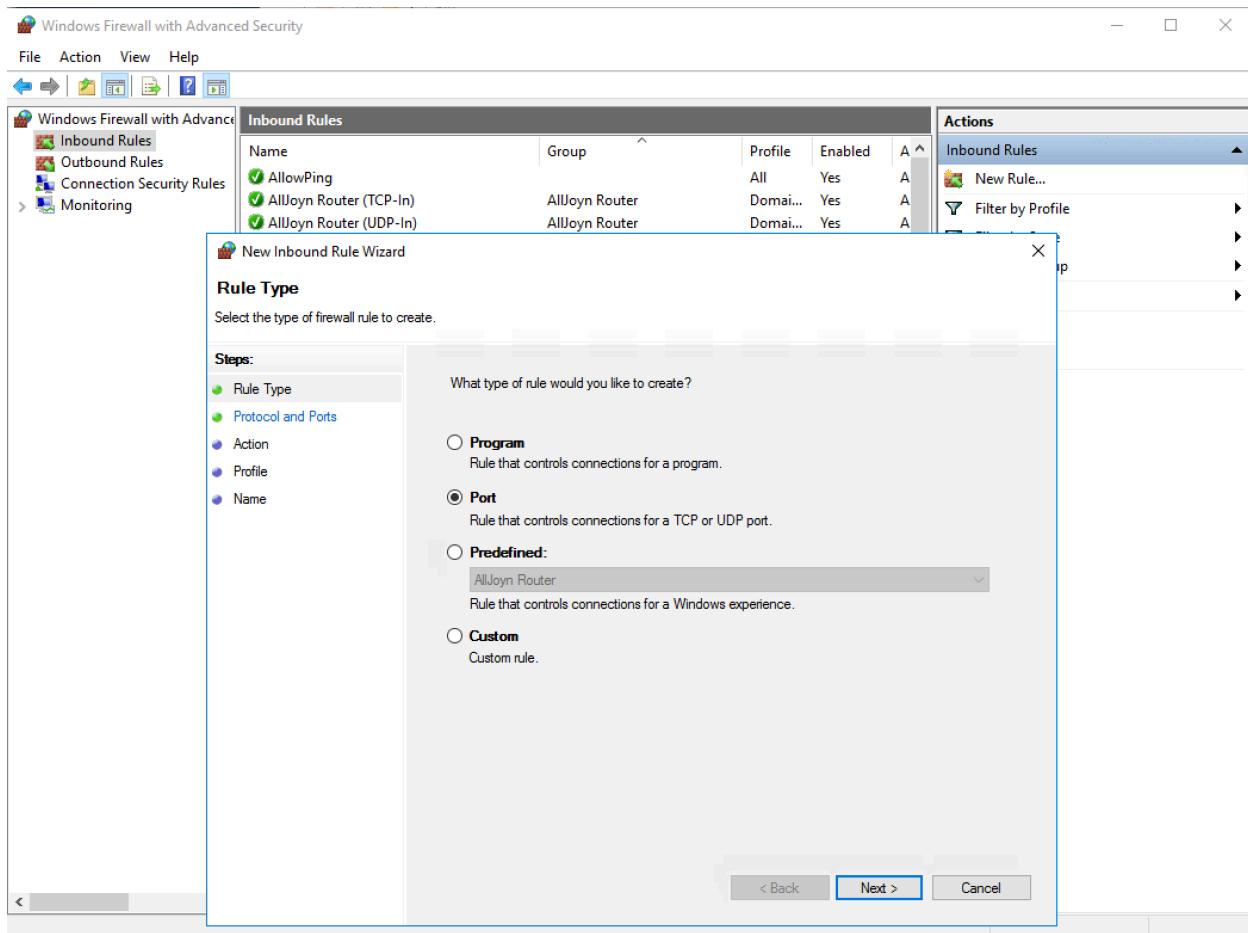
14. Next you have to edit your firewall. We need to open a port for the masternode. Open Windows Firewall from the start menu. Click “Advanced Settings”.



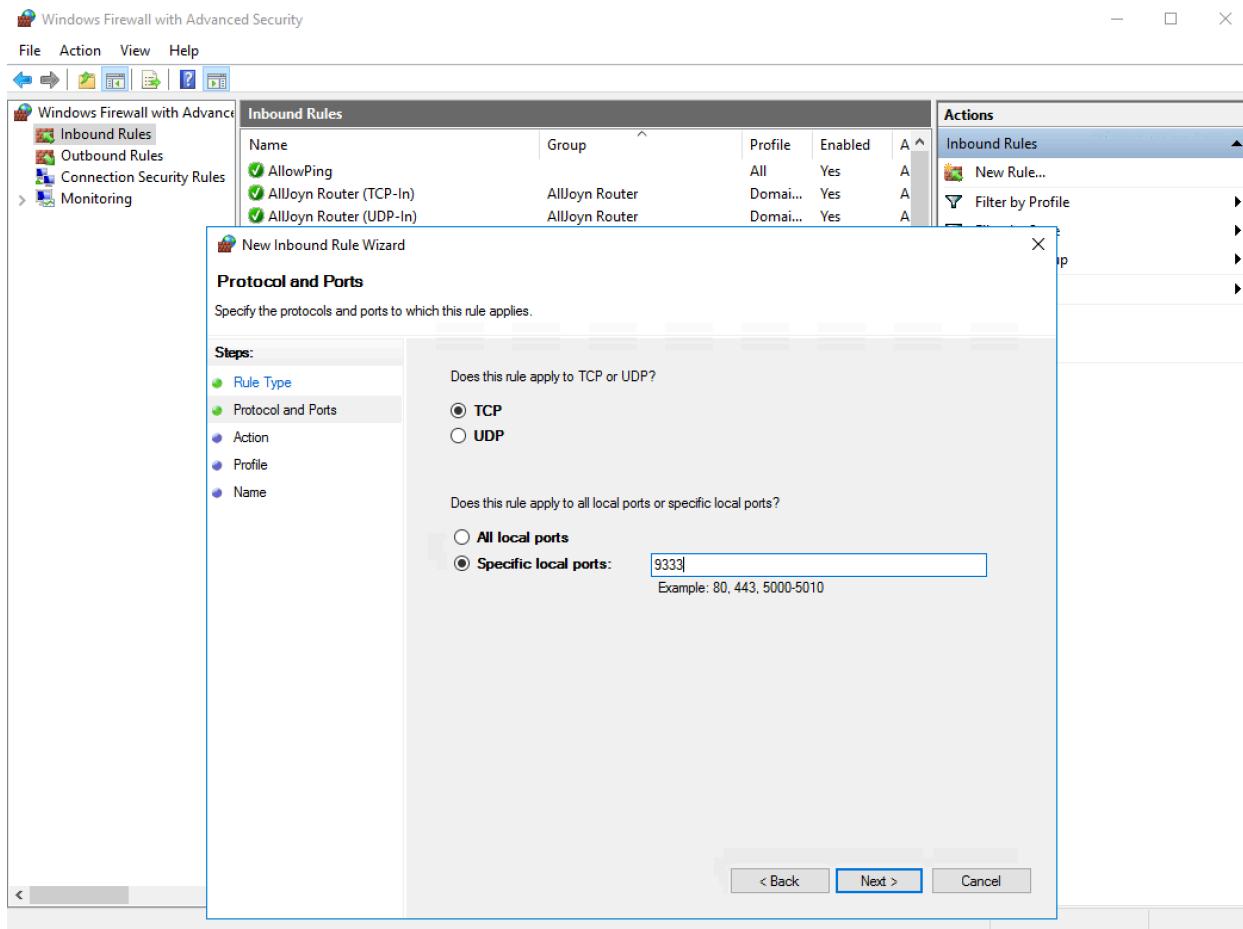
15. Clicking “Advanced Settings” will open the firewall control panel. Click “Inbound Rules”.



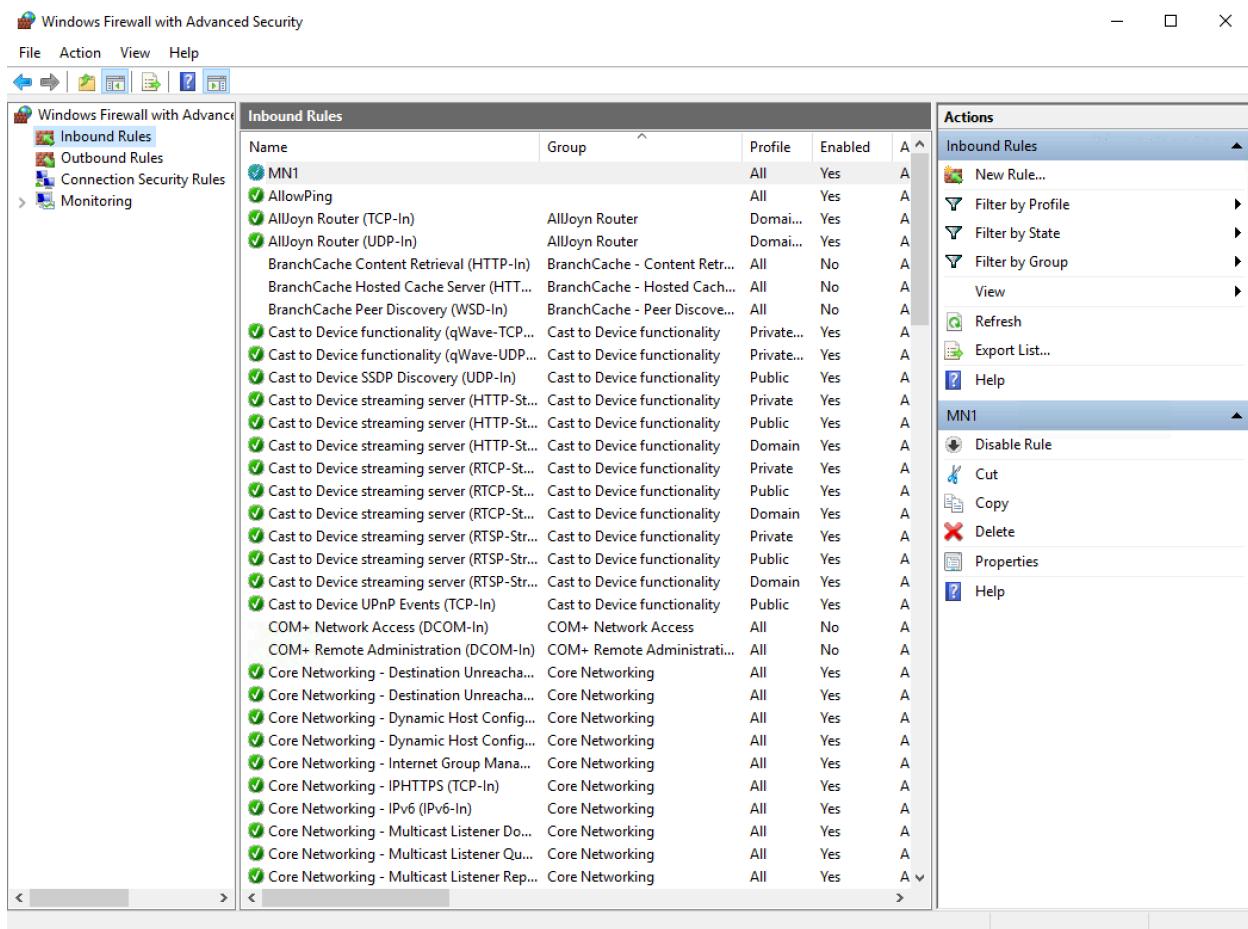
16. Click “New Rule” on the upper right side and you will get this screen. Select Port.



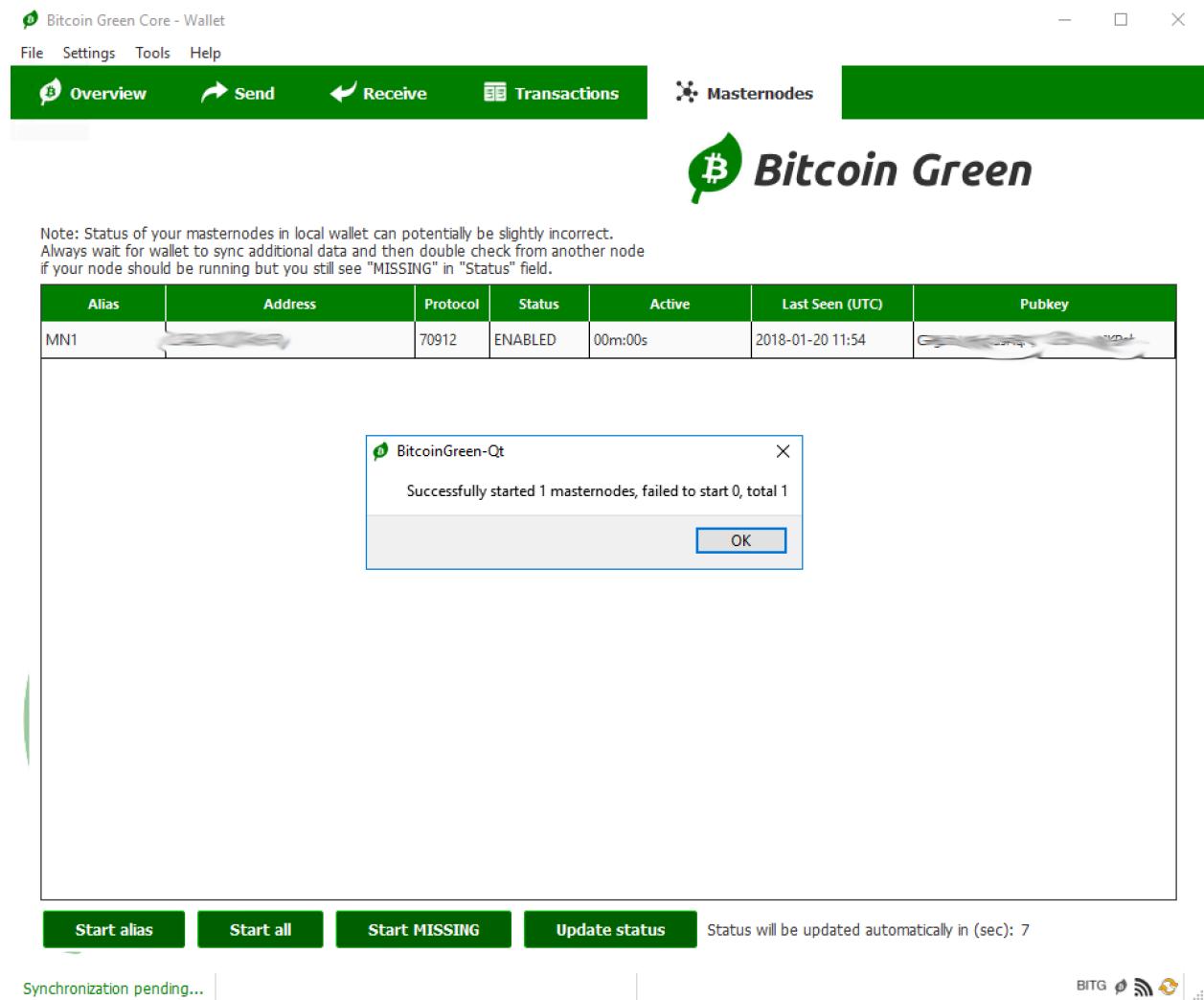
17. Choose the port to allow. In this case it is 9333.



18. Click through, allow the connection, allow it in all places. Give it a name, it can be anything you want. When you are done, you will be back on the Windows Firewall control panel and you will see your new rule. You can now close the firewall control panel.

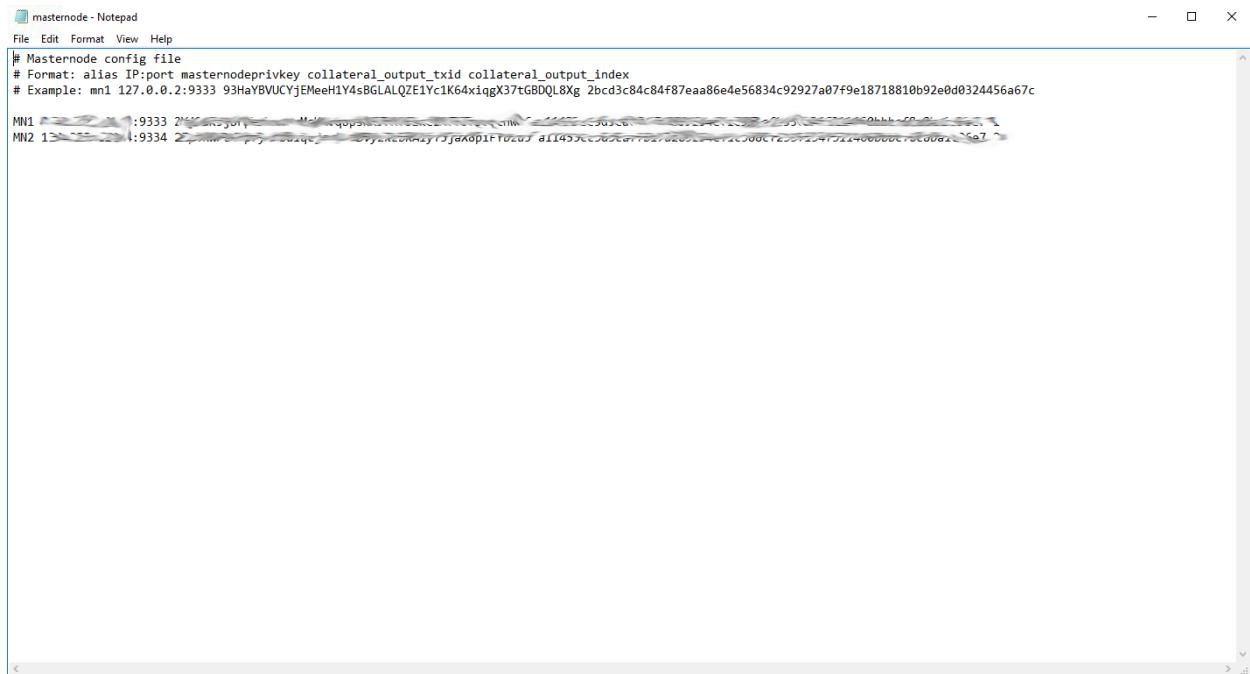


19. Go back to your Masternodes tab and click Start All. Success! Now relax and wait for the stakes to come in.



## ADDING ADDITIONAL MASTERNODES:

1. To run additional masternodes, start by completing steps 1-10 with the alias MN2 and the port 9334. This means add a new line to the masternode.conf. Do this for each masternode. Here's what it looks like for 2 masternodes:



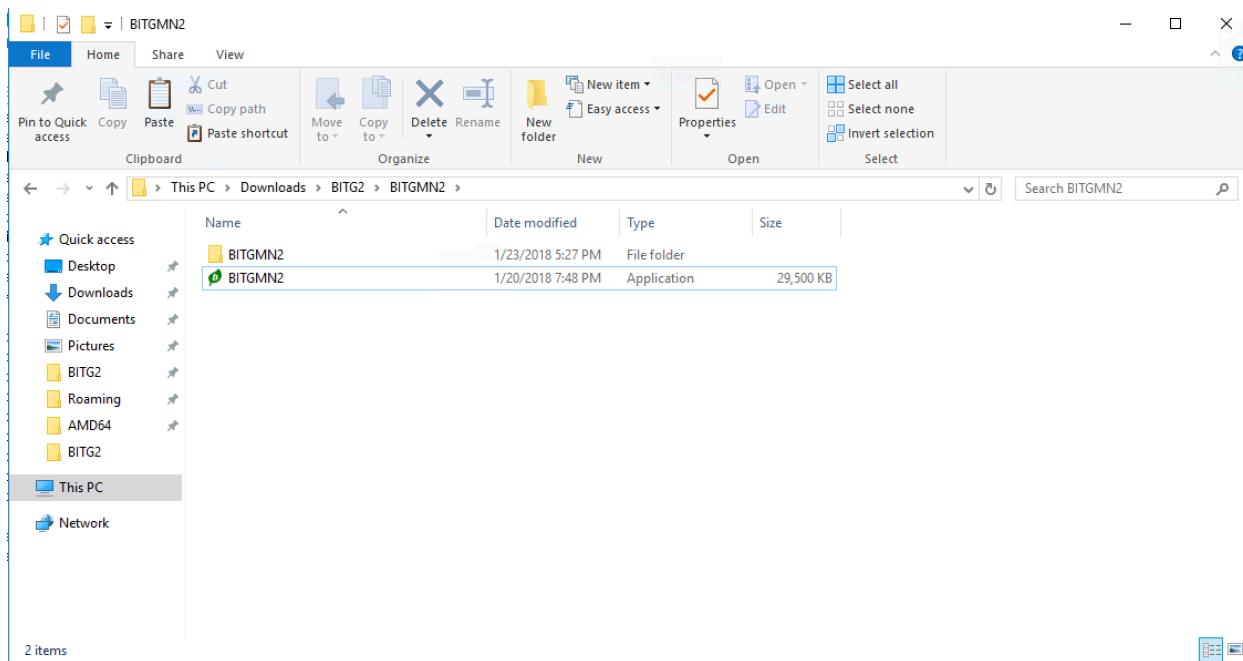
```
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# Format: alias IP:port masternodeprivkey collateral_output_txid collateral_output_index
# Example: mn1 127.0.0.2:9333 93HaYBVCYjEMeeHIY4s8GLALQZEIYc1K64xiqgX37tGBDQL8Xg 2bcd3c84c84f87eaa86e4e56834c92927a07+9e18718810b92e0d0324456a67c
MN1 :9333 2bcd3c84c84f87eaa86e4e56834c92927a07+9e18718810b92e0d0324456a67c
MN2 127.0.0.2:9334 2bcd3c84c84f87eaa86e4e56834c92927a07+9e18718810b92e0d0324456a67c
```

*For each additional masternode you can increment the port by 1. You can only run 1 masternode per port. As for the alias, it can be anything you want. FYI - the main wallet that holds your masternode.conf file and all your coins is called the “hot wallet”.*

*Next, you'll have to open an instance of the Bitcoin Green wallet for each masternode. Each masternode requires its own unique instance of Bitcoin Green. Your first masternode is already running in the hot wallet instance. Opening additional instances will allow you to run additional nodes on the same machine. These instances are called “cold wallets”. They don't need to hold any coins, they are just there to keep the port open for BITG. In fact, the only thing that matters in the cold wallet is the bitcoingreen.conf file. First, we'll need to give the Bitcoin Green client a new blockchain database to access.*

***tl;dr for each MN we need to run an empty BITG wallet to keep the right port open***

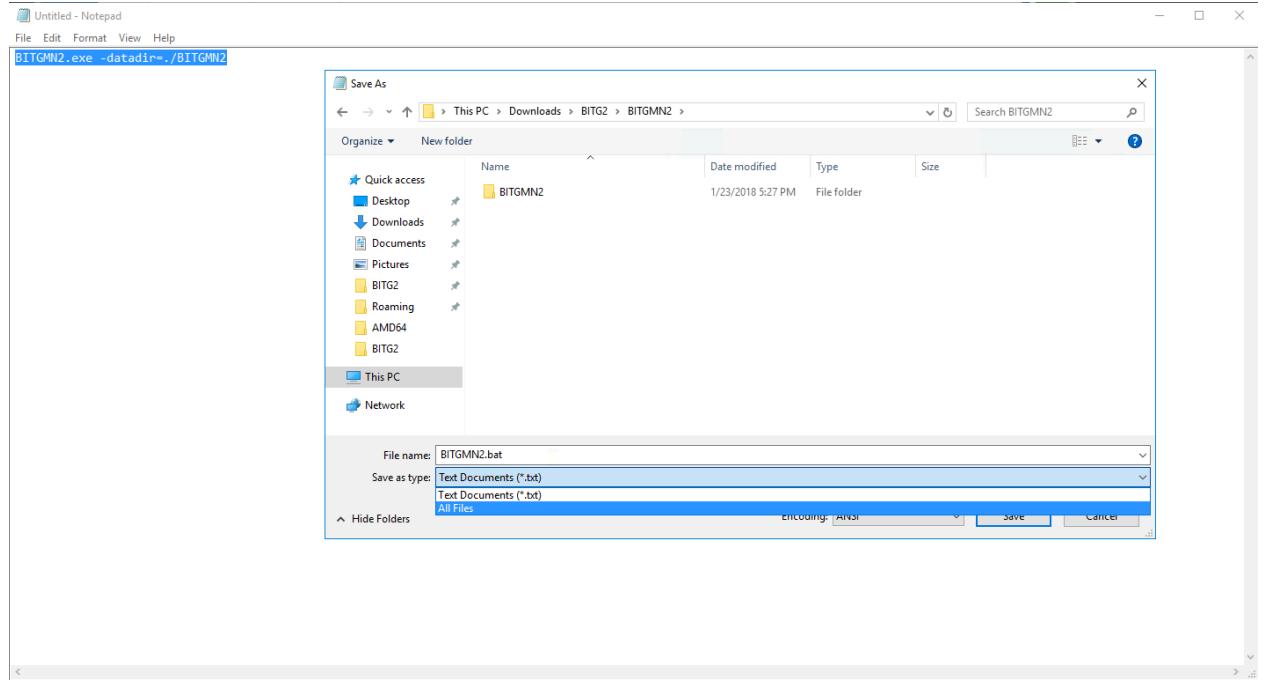
2. Create a new folder. It can be anywhere on your computer. Copy the bitcoingreen-qt file (from your Downloads or maybe C:\Program Files\BitcoinGreen) and paste it into the new folder. Rename the qt file to BITGMN2. Then create another folder called BITGMN2. Your screen should look like this:



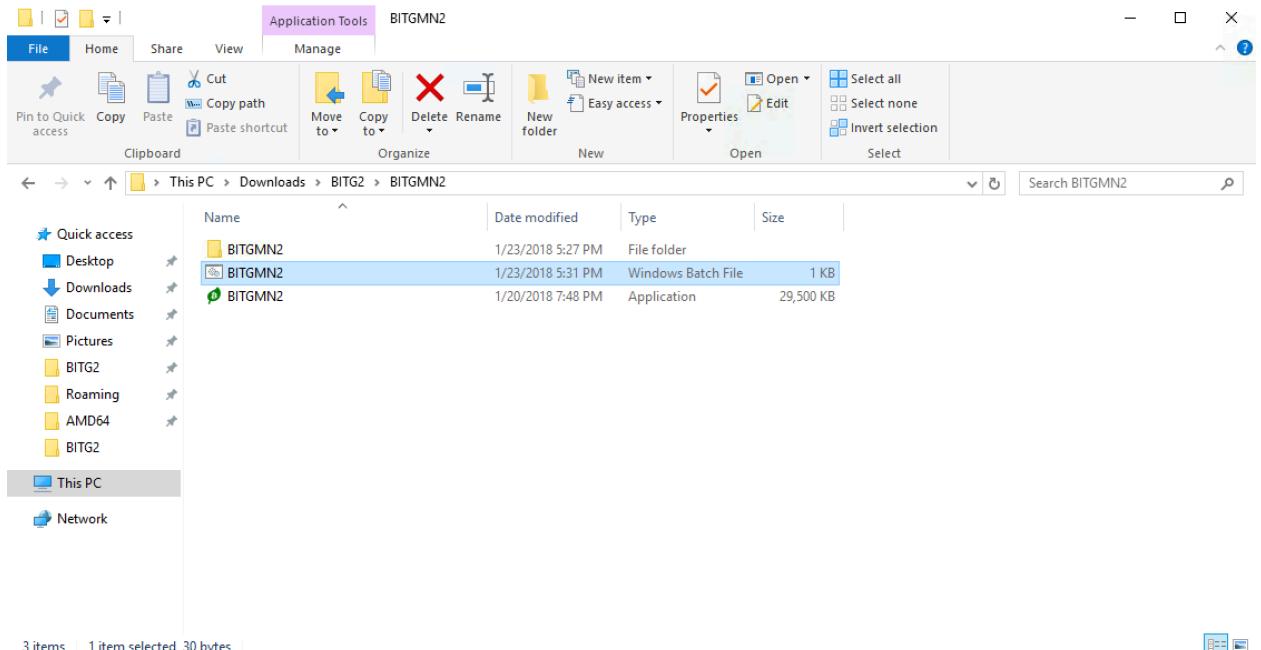
3. Now open a new file on Notepad. Paste the following:

```
BITGMN2.exe -datadir=./BITGMN2
```

Save as “BITGMN2.bat” in your new folder and make sure to select All Files file type. This creates an executable batch file.

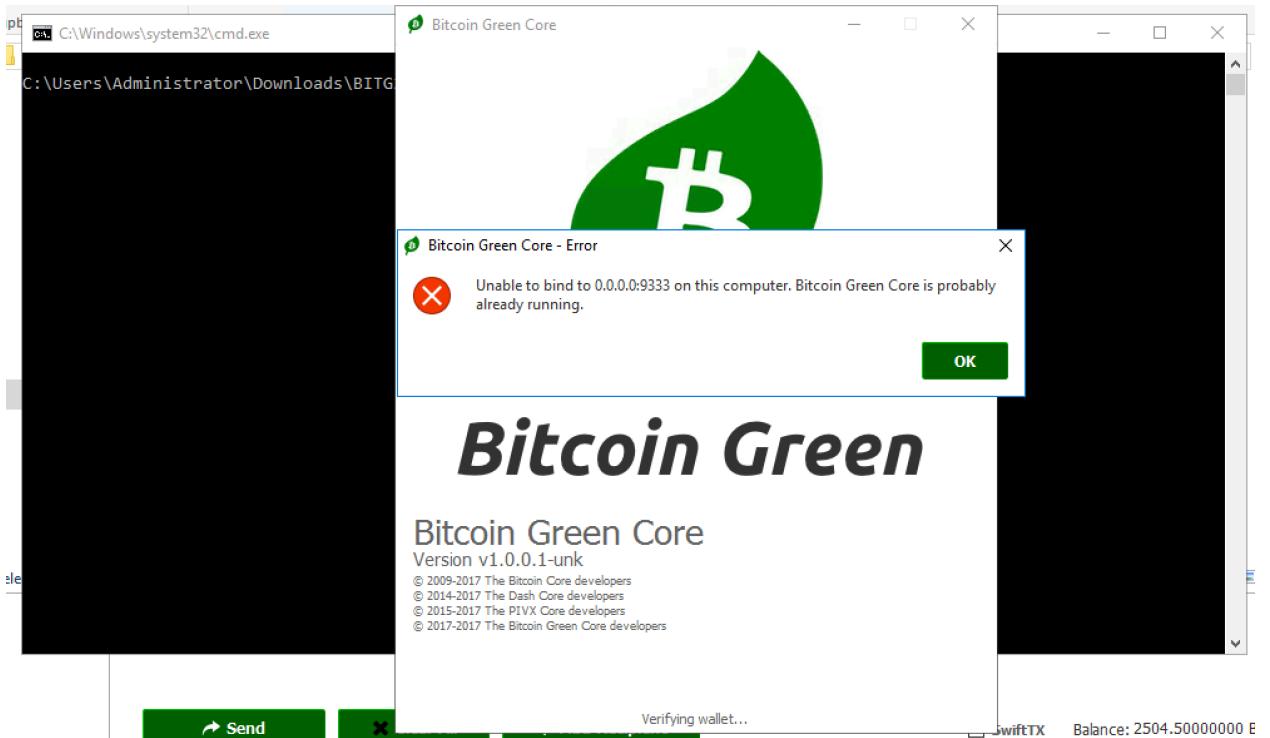


Final Folder:



4. Now try to open the BITGMN2.bat file you have just created (Note: you must open the batch (.bat) file to use BITGMN2 as the new directory).

*If your main wallet is open, you will get errors. That's okay. Even though you got errors, it created the new directory that you will edit. Click through the errors, but the wallet will not open. However, open the BITGMN2 folder you just created. It will now have a bitcoingreen.conf file that you can edit.*



5. Edit the new bitcoingreen.conf file with the config from step 12. It will be the same except you will need to put the new port and masternode key. Don't forget the "port=" line.
6. When you have finished editing the new config, press Save.
7. Make sure to open all the ports you are using in your firewall.
8. Open the wallet by clicking the batch file. Once your cold wallet is open you are good to go.
9. Return to your hot wallet and click start all. Your nodes should succeed.
10. *When your nodes status still says ENABLED after 130 minutes, you will know your setup worked successfully. You will not know until 130 minutes after starting the node. If the node says missing after 130 minutes it will stop mining and your setup failed.*
11. *To save sync time, you can copy the entire blockchain into the new directory (just make sure to delete the wallet.dat file and masternode.conf – and do it AFTER you paste them in. Your wallet will spawn blank ones which is what you want)*