# C3X Multiple Masternode install Guide

This is a step-by-step guide on how to install multiple C3X masternodes on 1 (one) VPS

## Guide Requirements:

- VPS servis (for the purpose of this guide I have chosen Vultr)
- Putty
- Very basic knowledge of Linux

While writing this guide I was using a Vultr Cloud Server. Full disclosure - links used in this guide are referral links that help us out running our servers, if you choose to use them.


I am using a Windows 10 based PC, and communicate with the VPS using Putty.

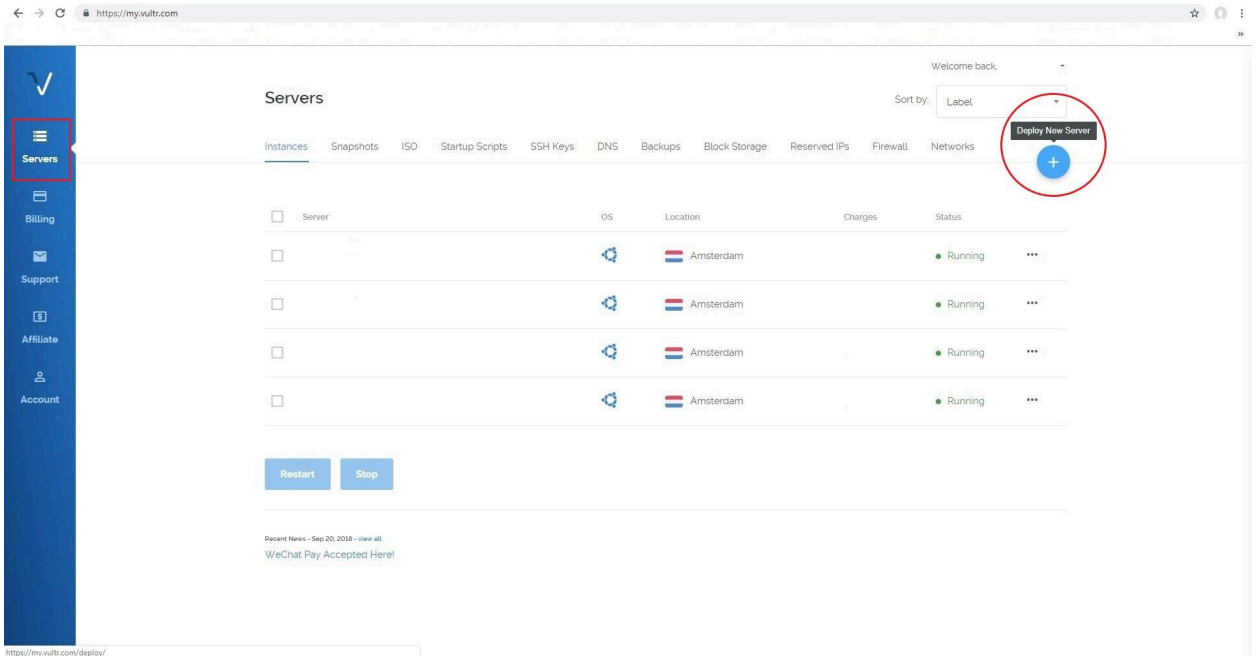
This guide is meant for novices. If you are already an experienced systems administrator then head on over to C3X GitHub VPS and follow the directions.

All shell commands will be surrounded with a grey background like this:

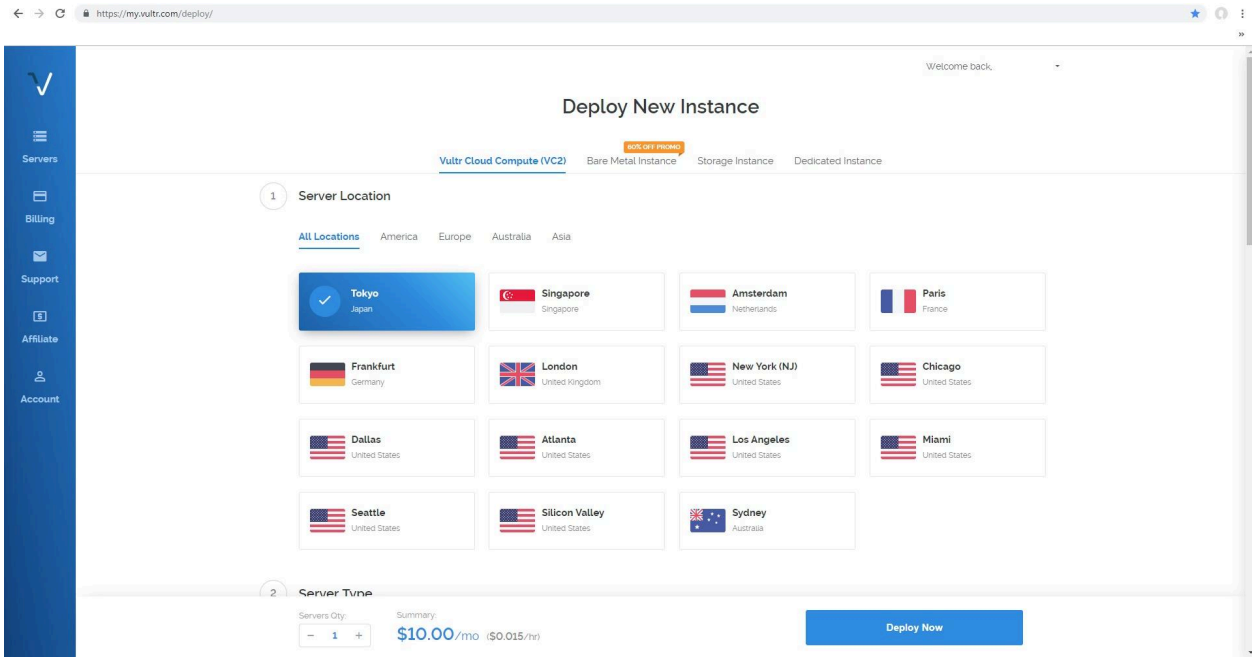
```
shell command
```

## VPS Setup:

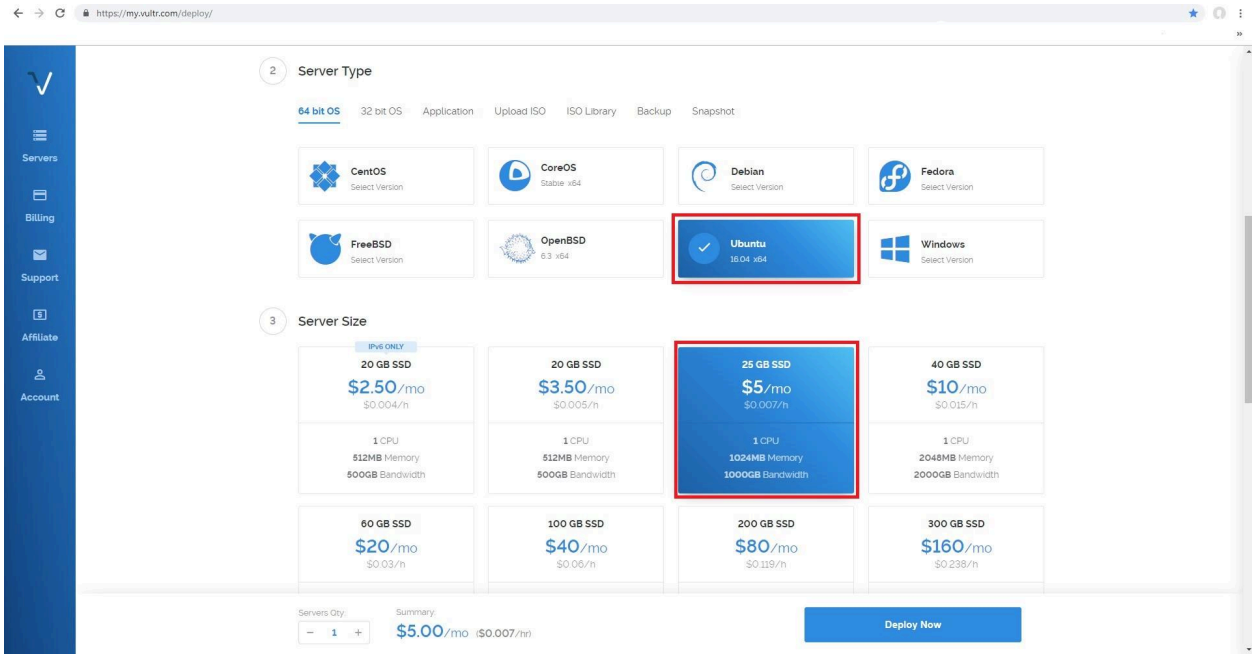
After you have created your account and made a deposit to your account, go to the Servers Tab on the left hand menu, and then click on the “+” button on the right hand side to Deploy a New Server



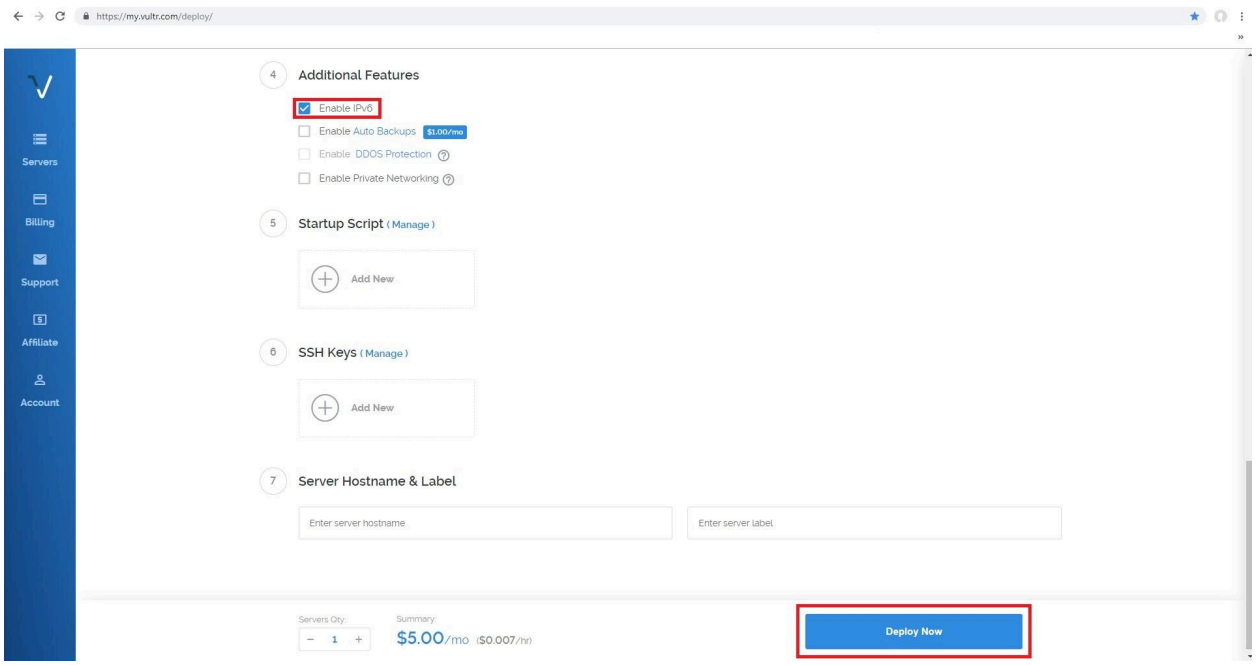

You will come upon a new screen, pictured below.
Choose your preferred **Server Location** and scroll down.



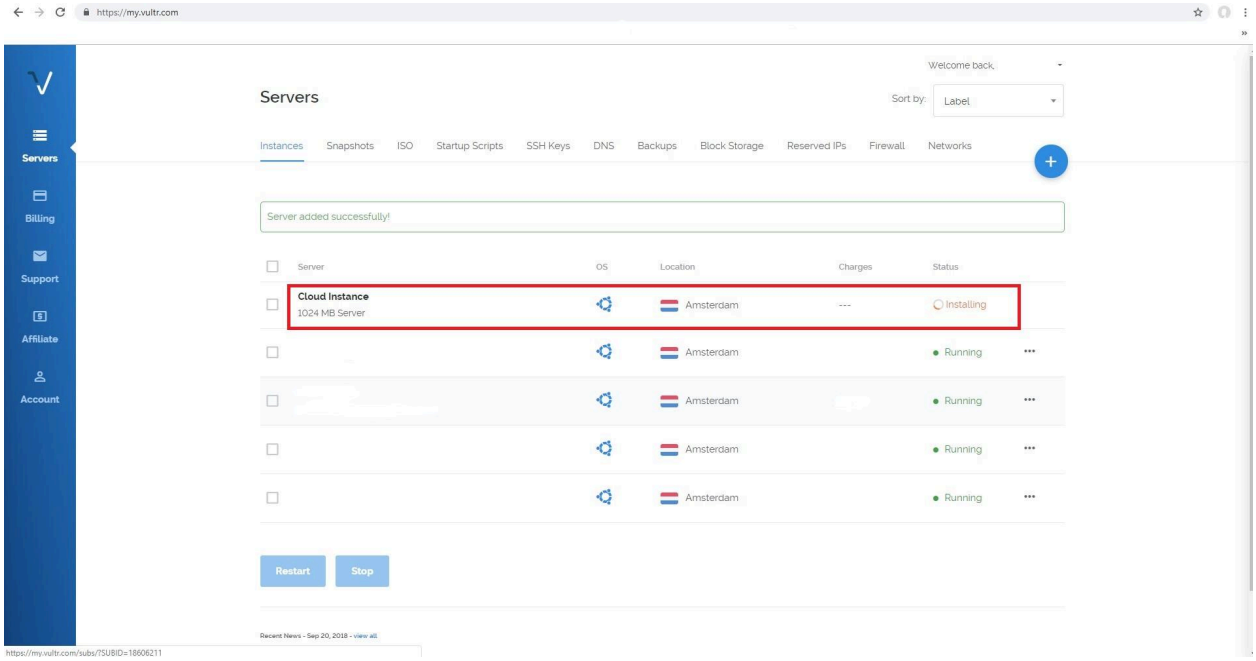
As **Server Type**, choose Ubuntu 16.04 x64.
As **Server Size**, choose $5/mo option. (Pictured below)



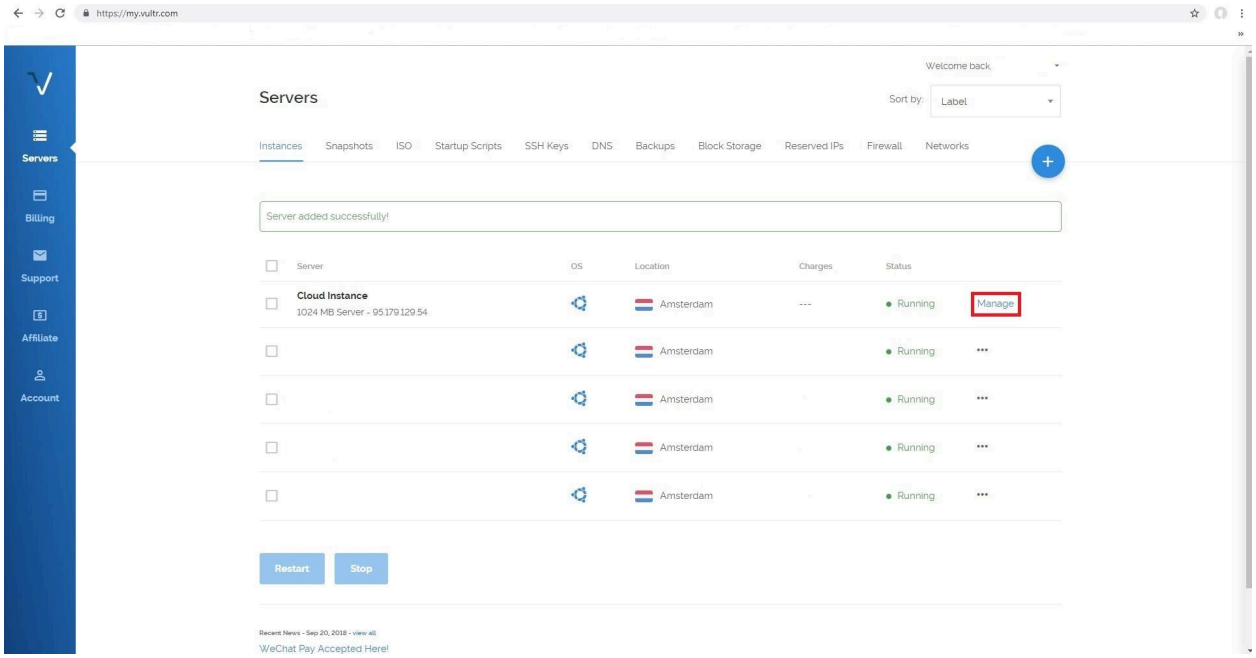

Next, in **Additional Features check the box at Enable IPv6.**
And you are ready to Deploy your server. Click on the **Deploy** button at the bottom of the page. (Pictured below)



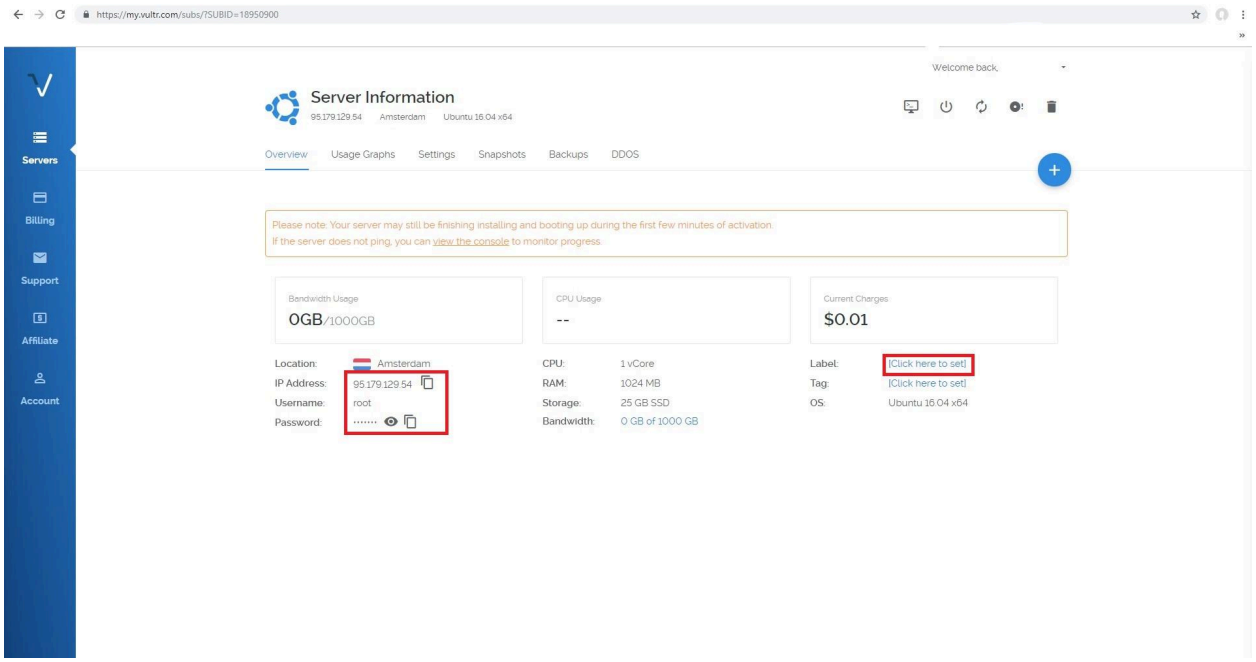
Once you have deployed your server, you should be looking at your server panel, and your server should be **Installing** (pictured below). Wait for the server to install, then follow the next step.




Now that your server is installed and Running, you have a new option - Manage. Click on the **Manage** button (pictured below) and it will take you to your server details page.



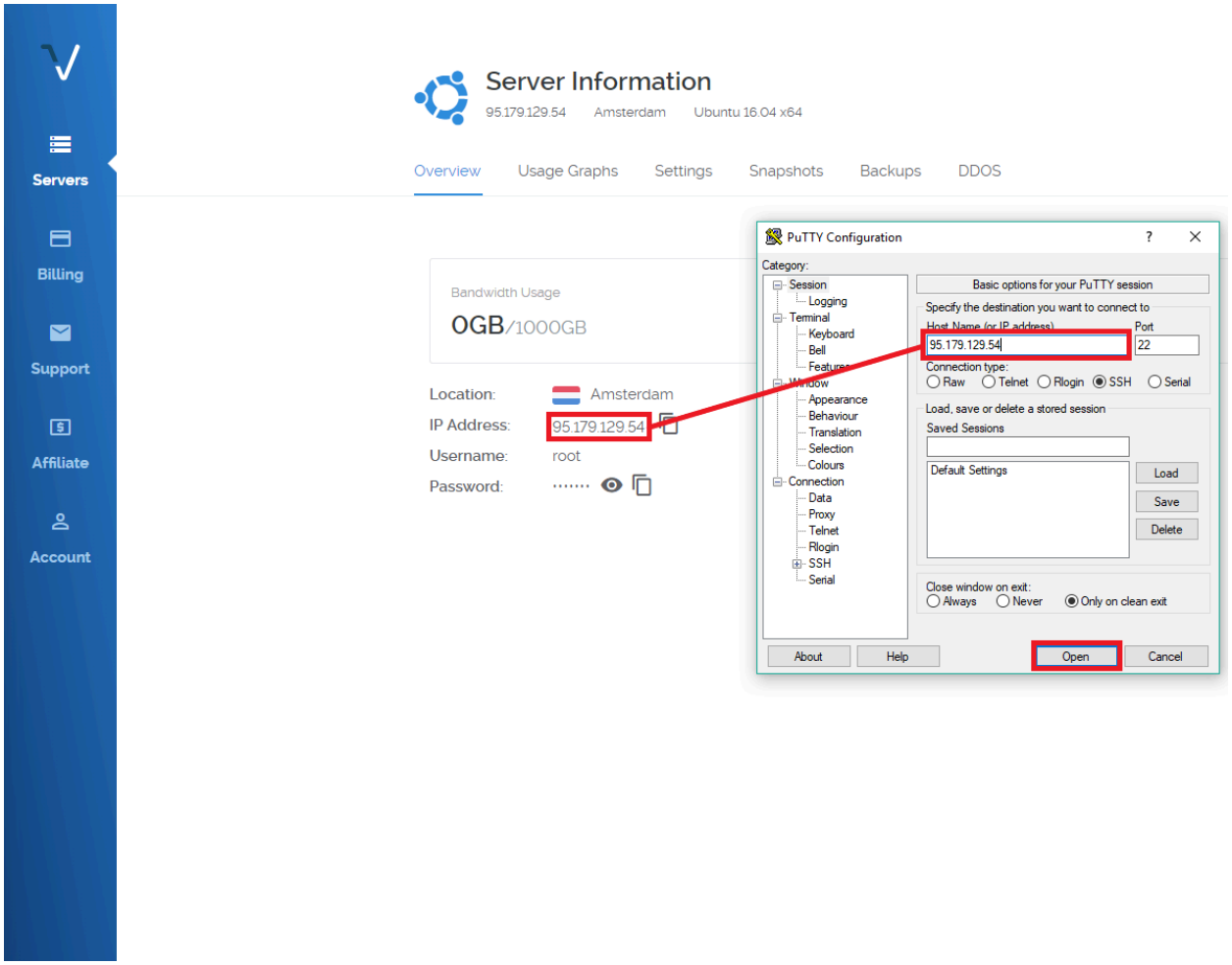
**Congratulations!**
You now have a running server you can install your C3X masternodes on.
All the necessary information needed to log into your server are displayed as shown below.
*Optional: you might want to name your server something cool or whitty, or just to distinguish it from all your other servers on Vultr. You can do that in the **Label** section (pictured below)*




Take note of your **IP Address**, **Username** and **Password** (you can easily copy your IP and Password by clicking on the little box on their right, and paste in a word document; *Optional: you can click on the eye icon and your Password will display, however be very careful if you copy it this way, there are sometimes dotts, commas and dashes hard to see and easy to miss*)

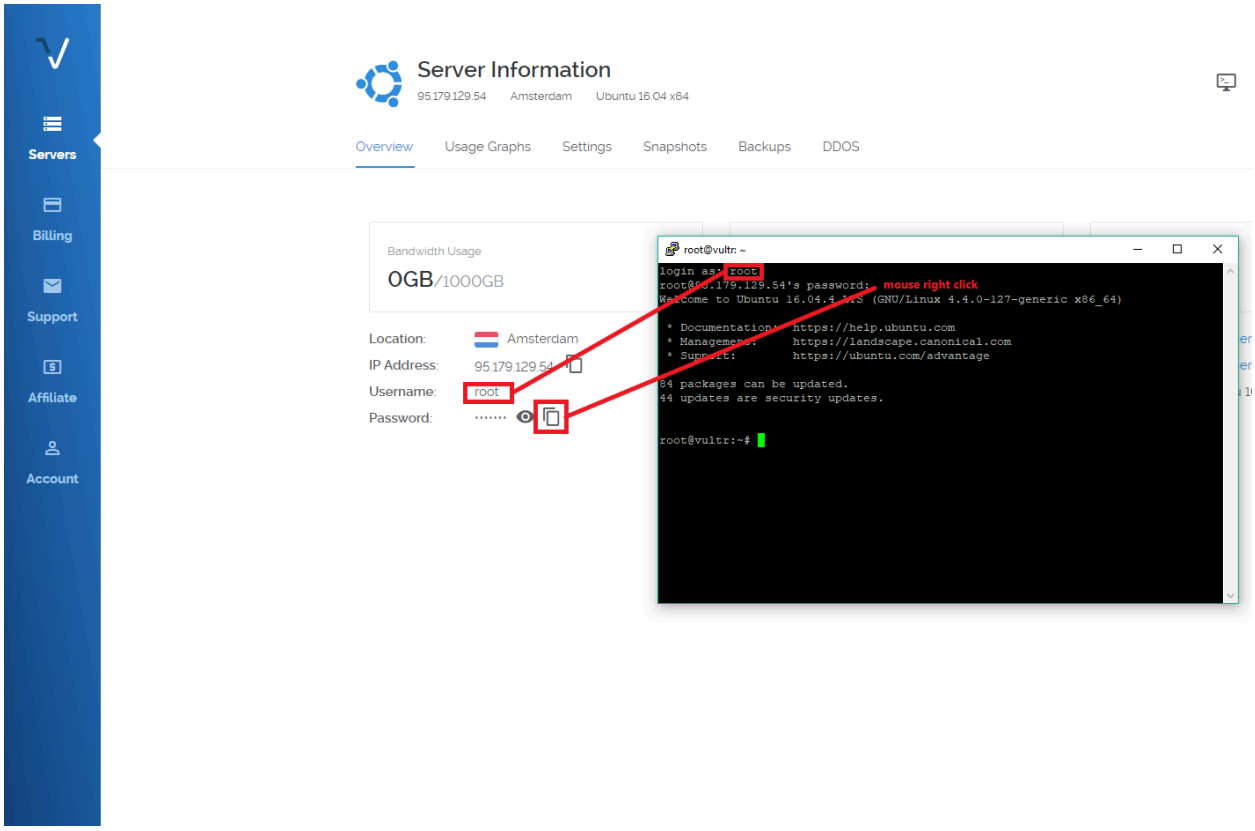
Now that you have your VPS setup and started, run **Putty** and log in as root.

In the **Host Name (or IP address)** section on **Putty**, copy and paste your **server IP Address**, then click on **Open**. (Pictured below)




Once a pop-up window shows up, just click on **Yes**.

Now that Putty is connected to your server, you need to enter your username and password to start installing your VPS.
In the **login as** section type in **root** - your server username, and hit **Enter**
In the **password** section copy and paste your **server password** (to paste in Putty and Linux in general, just use your mouse right click; even after you have done that, your password will not show in putty, either as dotts/stars or your password characters, so keep that in mind) and hit **Enter**. (Pictured below)




## Installing VPS server and Masternode script:

Let's go ahead and setup the VPS before we start installing the masternode script.
Note: copy and paste the text in the box into Putty one by one

```
apt-get update
```

```
apt-get upgrade
```

Once the server is finished updating, its time to install the script and start setting up your masternodes. In this example I will be installing only one masternode, the process for multiple masternodes is the same.

First, clone the GitHub repository:

```
cd /
```

```
cd home
```

```
git clone https://github.com/c3xcoin/vps.git
```

```
cd vps
```

```
chmod 777 install.sh
```

Next, install & configure your masternode:

```
./install.sh -p c3x
```

This method only installs 1 masternode, for multiple masternodes skip this step and refer to the method below

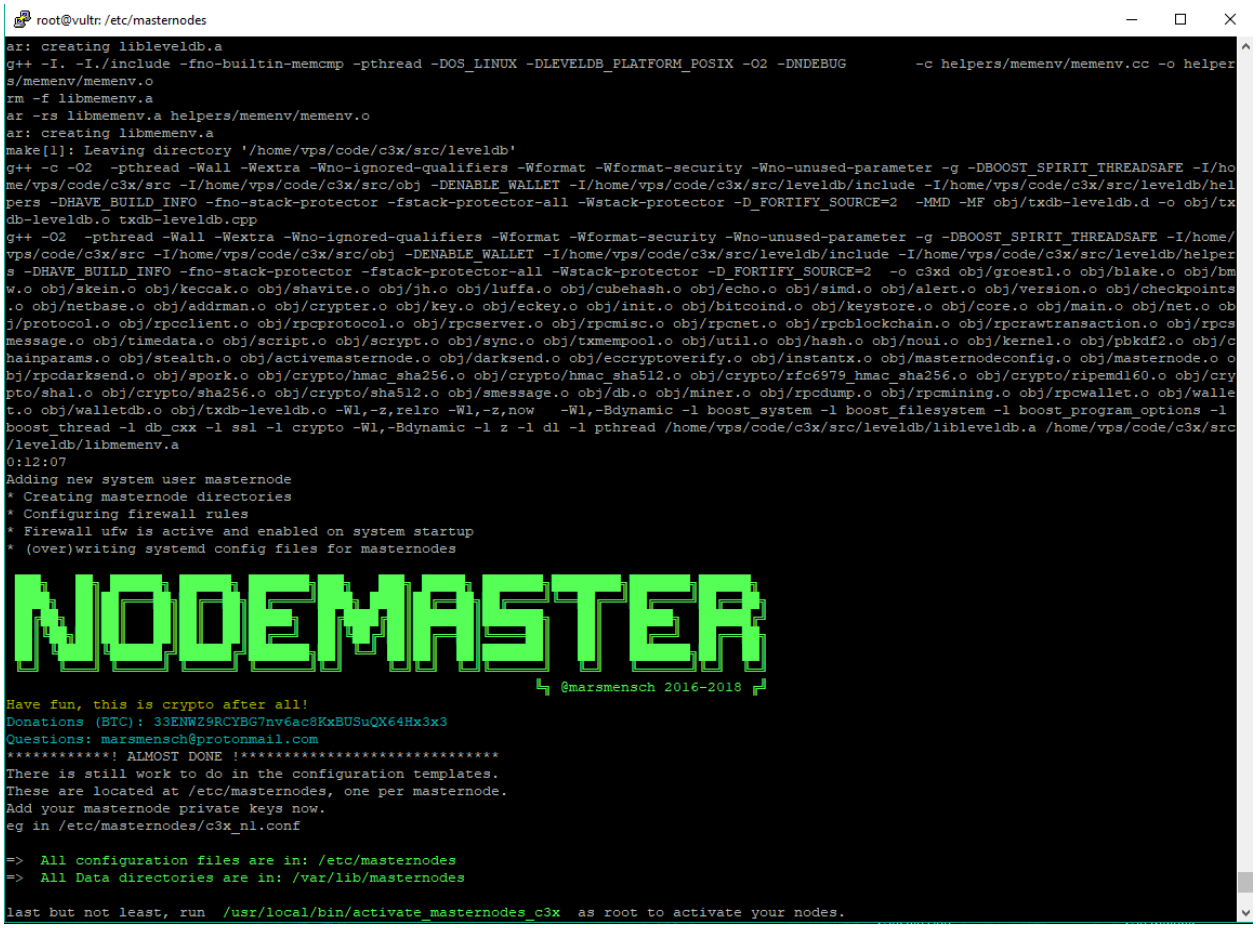
**Install & configure 4 c3x masternodes:**

```
./install.sh -p c3x -c 4
```

where **-c** *number_of_masternodes_we_want_to_install* (Recommended number of masternodes per VPS is maximum 5)

Now wait for the script to run its full duration and install your masternodes.

Once complete, you should see this on your screen:




Congratulations! Your masternodes have been installed successfully.

Now you need to access the individual masternode conf file.

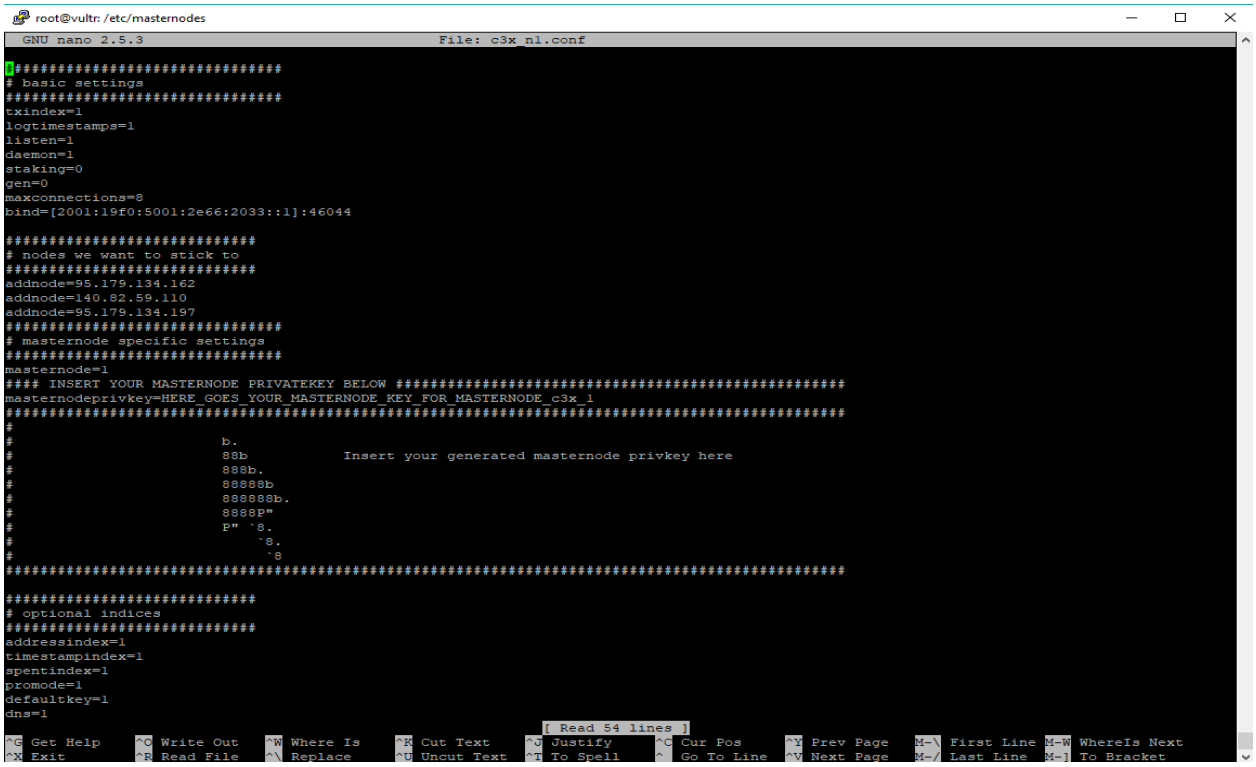
```
cd /
```

```
cd etc/masternodes
```

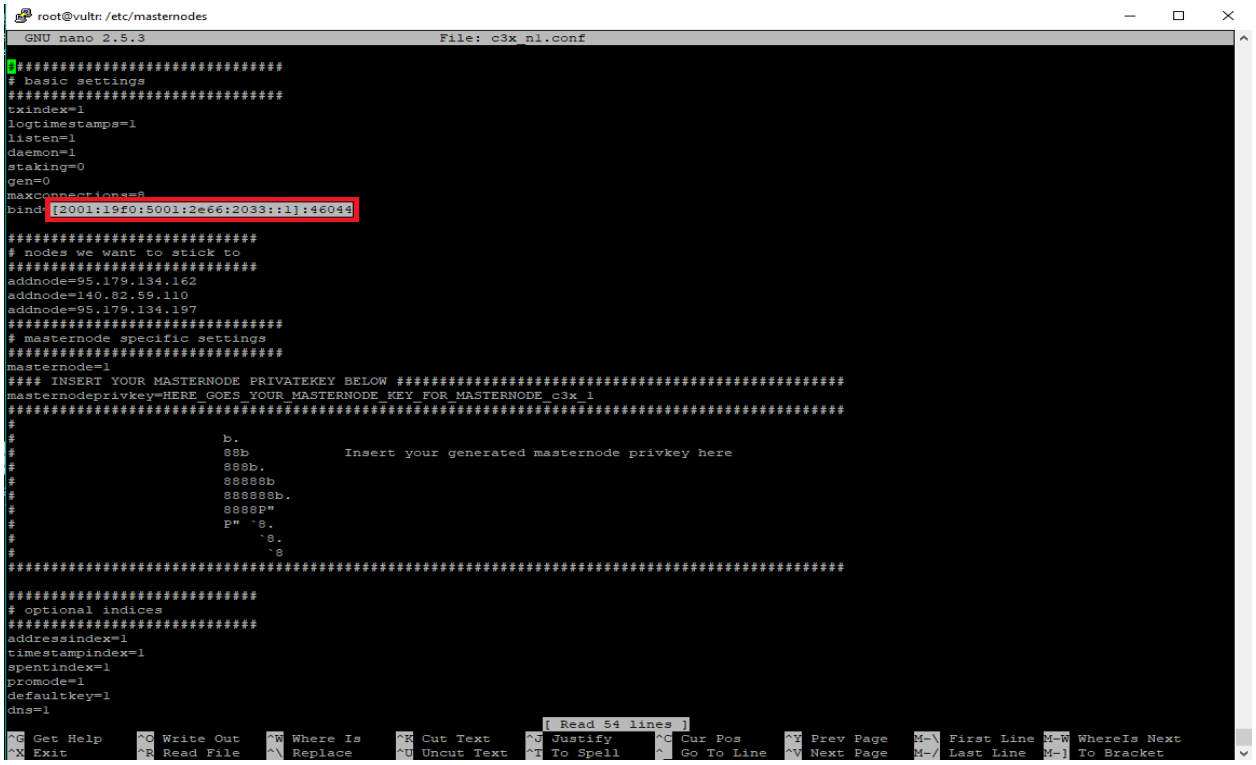
```
nano c3x_n1.conf
```

**Note:** for multiple masternode setup, you would need to access all individual masternode conf files, and you can do that by changing the number in **“c3x_n#.conf”**, where **#** is your masternode number

You will now be looking at the masternode configuration file for c3x_1:

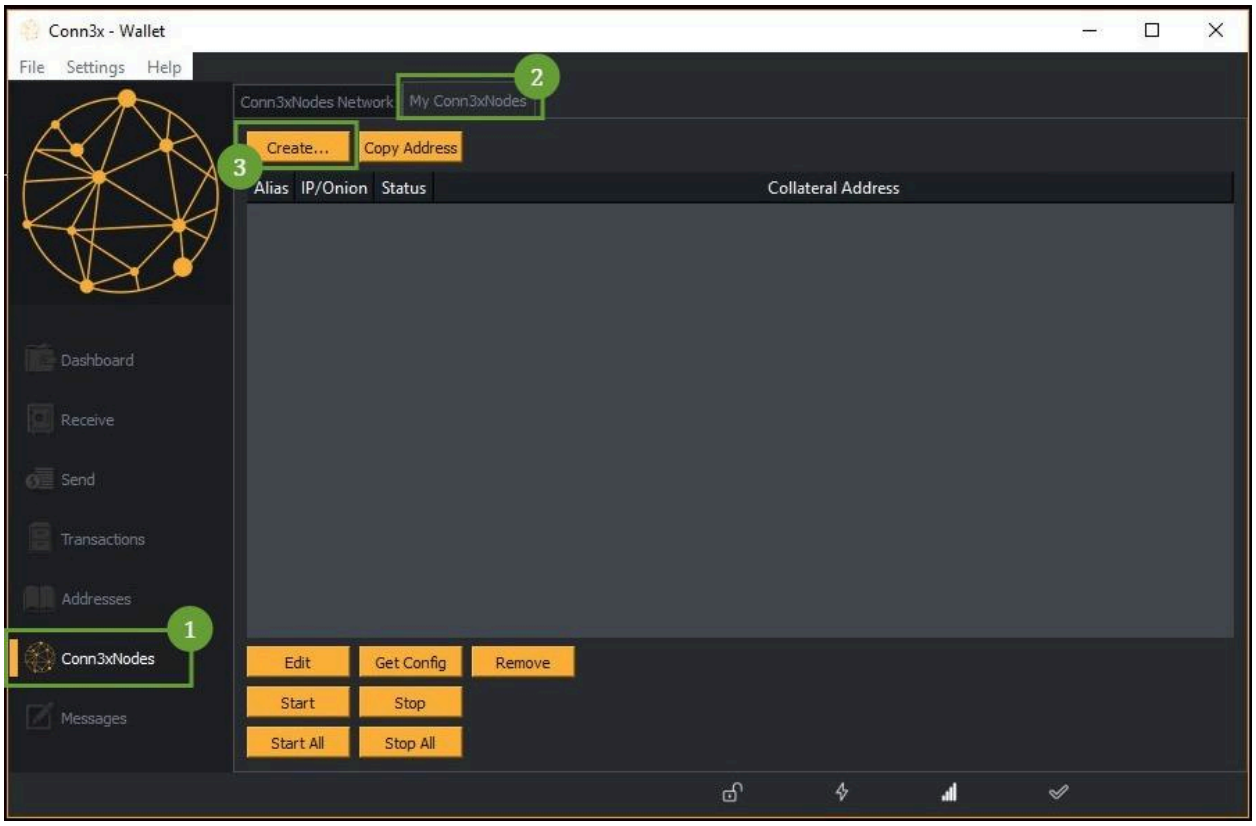



From the configuration file, you will need to copy the IP address and port for our wallet setup.

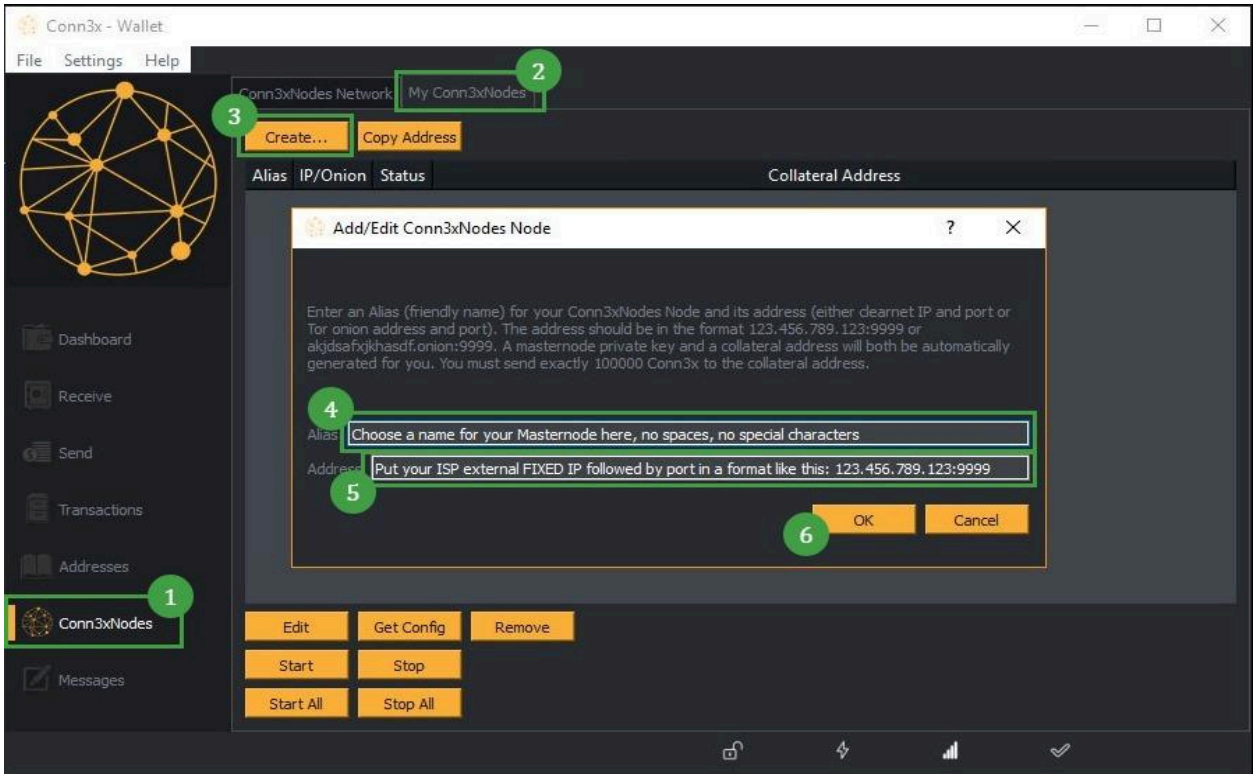


## Windows Wallet Setup:

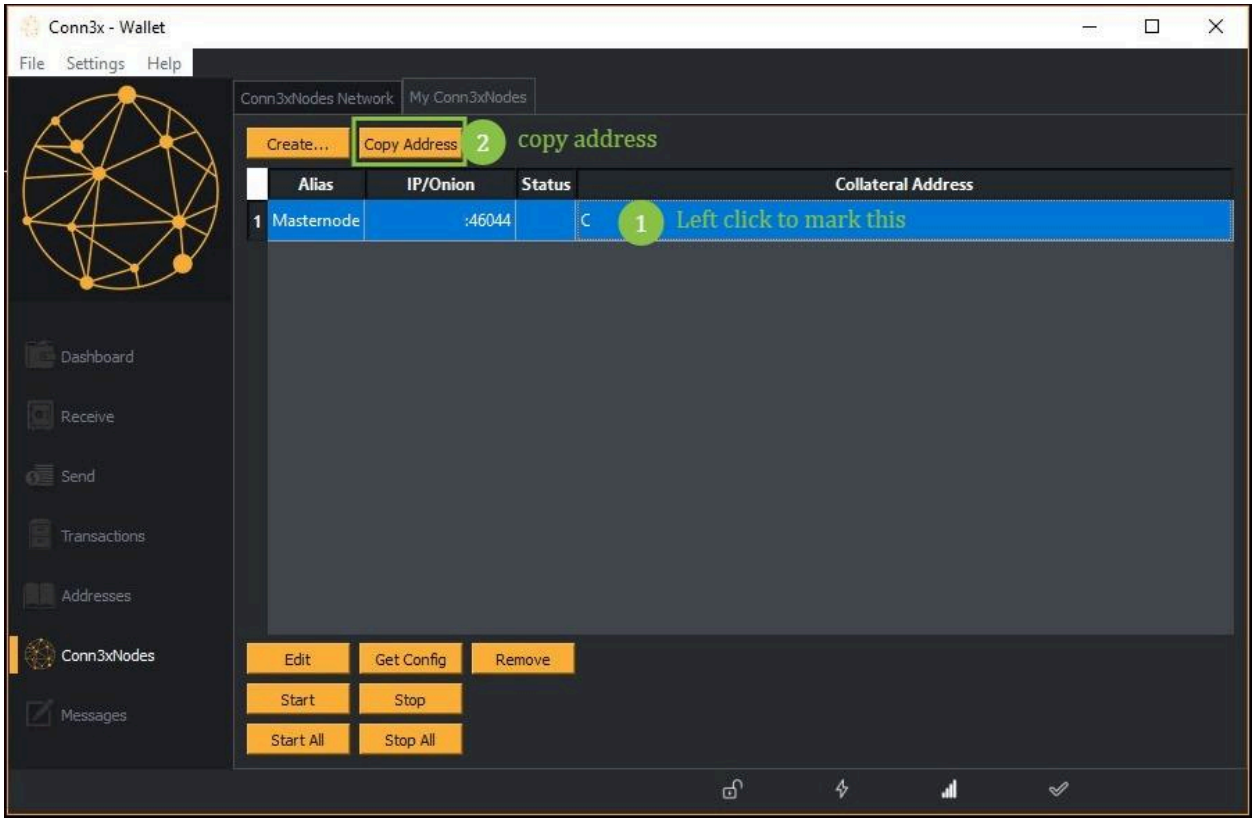
Start the wallet, go to “**Conn3xNodes**” menu item, and you will be presented with all running masternodes.
Click on “**My Conn3xNodes**” tab, then click on “**Create**” button to start creating your Conn3x masternode



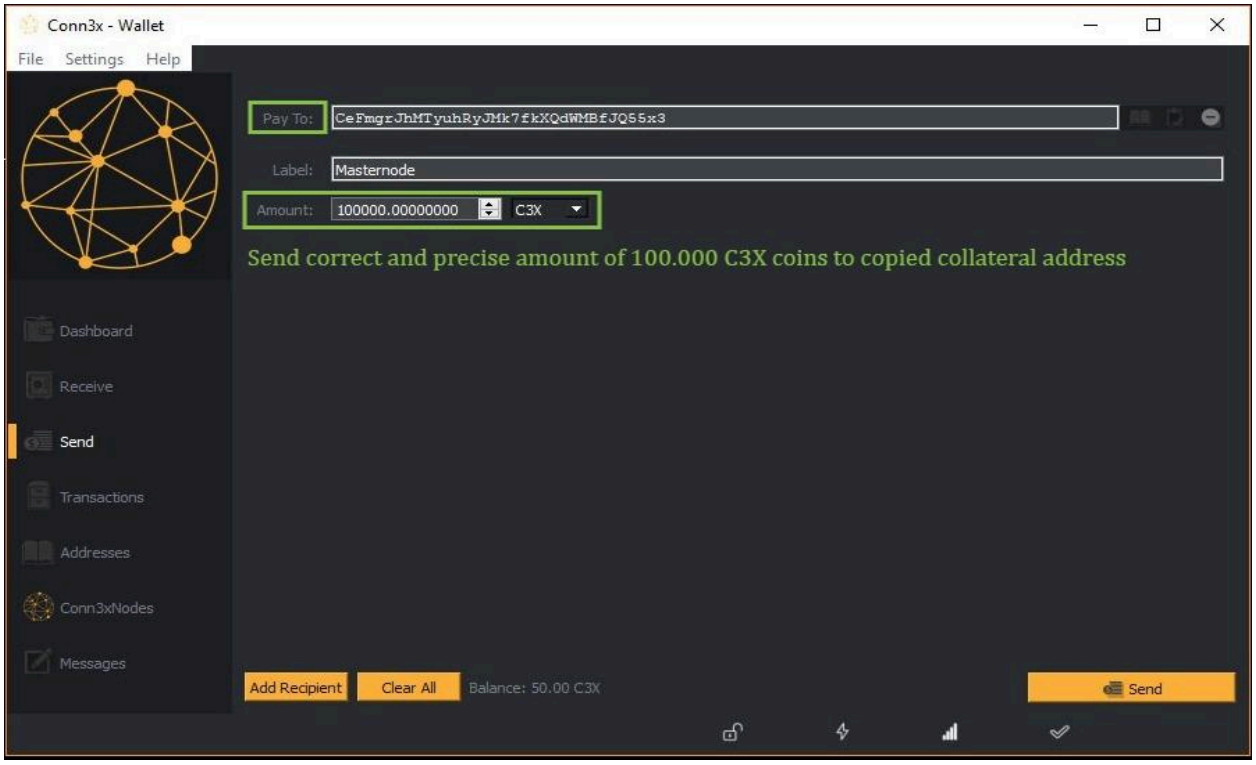

A window will popup. Name your masternode in “**Alias**” field. In “**Address**” field type your external address:port in this format: 123.456.789.123:46044 *(Here is where we input the IP address and port we copied from the masternode configuration file on our VPS)*



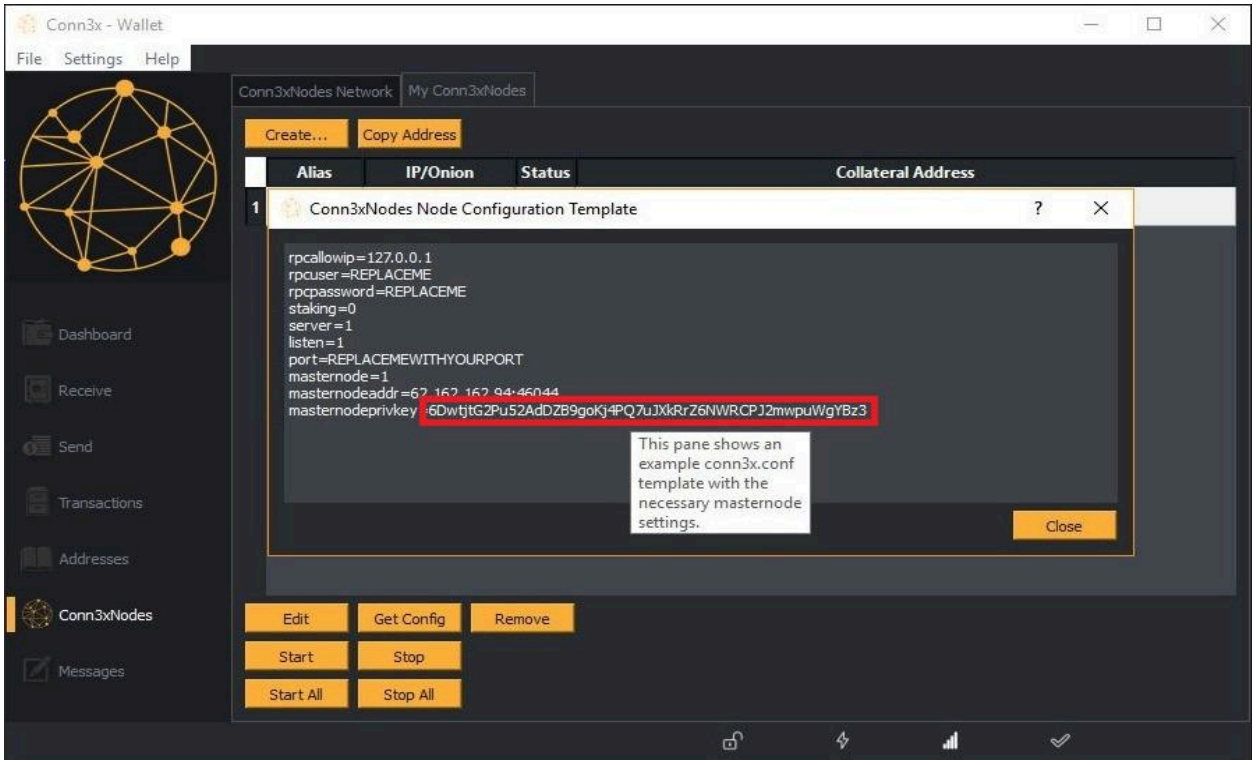

Click on button "**Copy Address**" and send **100000 C3X** to that address. Wait for 1 conformation then proceed with setup.



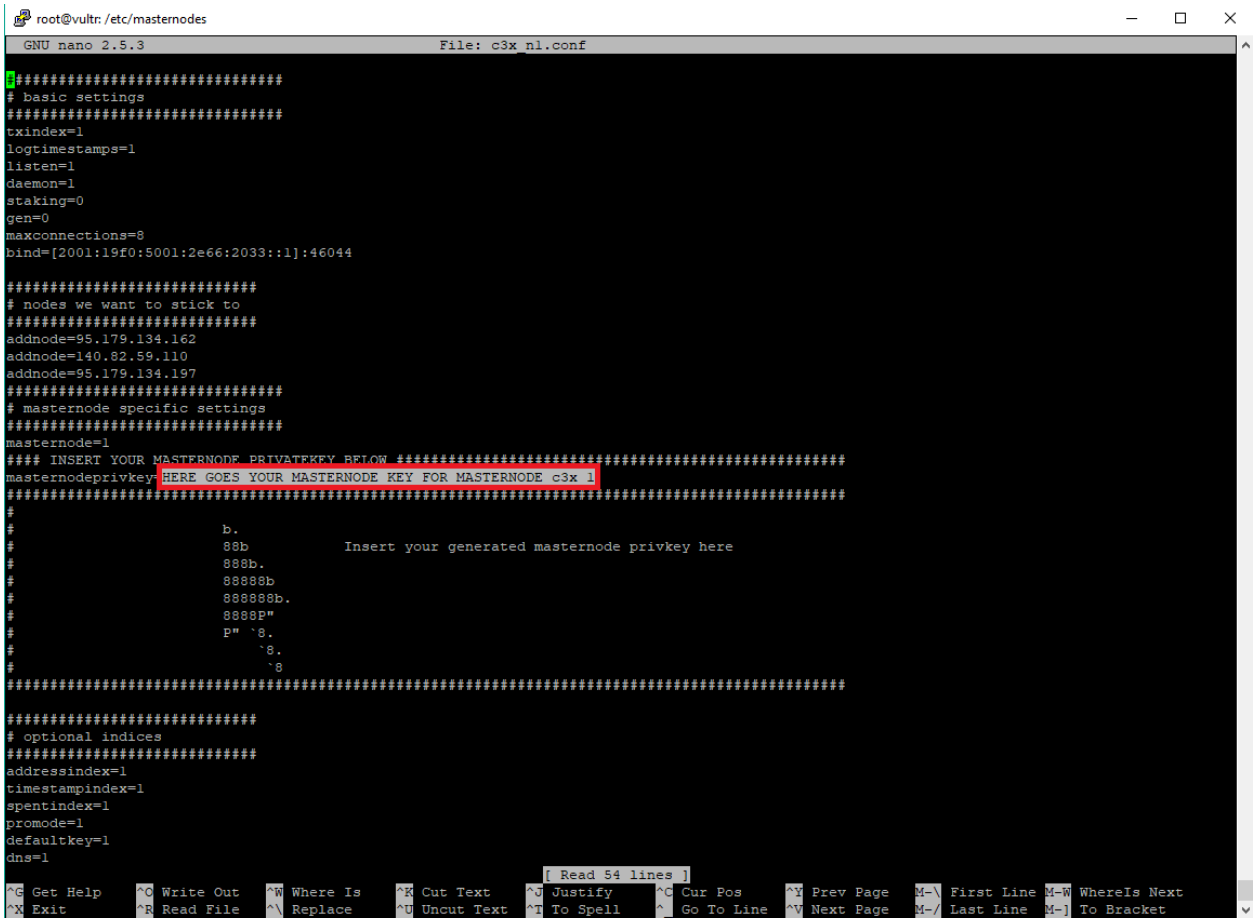
Sending 100000 C3X to your copied collateral address. Yes it's your own Masternode address. Coins will still be in your wallet, it's like paying to yourself.




Go back to "**Conn3xNodes**" menu, in tab **My Conn3xNodes** and select your Conn3x masternode followed by clicking button "**Get Config**"



Here you will find the Masternode Private Key you need to input into the Masternode configuration file on your VPS. **Copy** the **masternodeprivkey** *(highlighted above)* and paste it to **HERE GOES YOUR MASTERNODE KEY FOR MASTERNODE c3x_1** in your VPS masternode configuration file *(pictured below)*.




Once you have input your masternodeprivkey into your VPS masternode configuration file, press **Ctrl+X**, press **y** and **Enter**.

Now you are ready to start your VPS daemon.

```
cd
```

```
/usr/local/bin/activate_masternodes_c3x
```

And your C3X daemons will start synchronizing with the network.

To check status of your masternodes, run the following command:

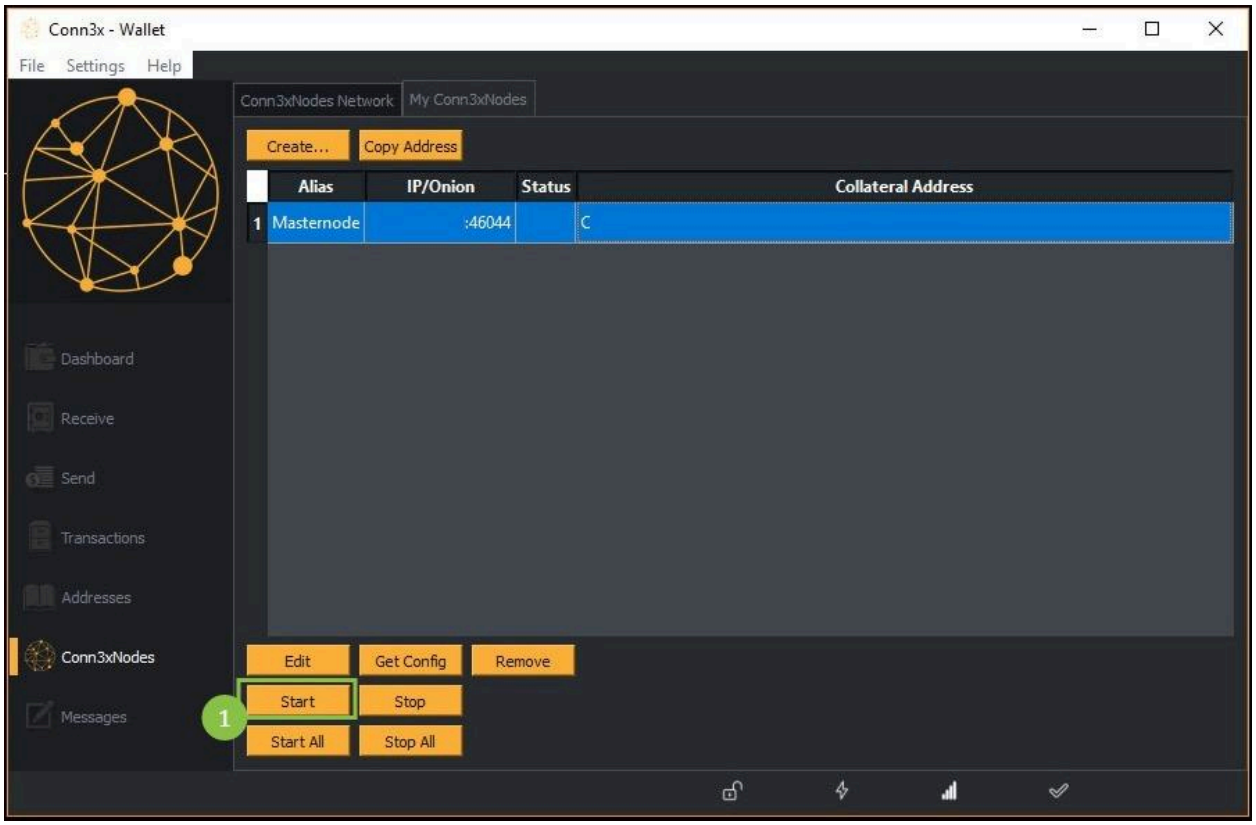
```
/usr/local/bin/c3xd -conf=/etc/masternodes/c3x_n1.conf getinfo
```

**Note:** you can change the number in **c3x_n#.conf**, where **#** is the number of your masternode.

## Starting your masternode in your Windows wallet:

Once your VPS masternode daemons are all synced, you can start your masternode. Select your Conn3x masternode in MyConn3xNodes and click button "**Start**"

You should get a success message. Shortly your masternode IP will be listed in Conn3xNodes menu.




## Congratulations!

You now have a running C3X masternode/s.

Note: If you cannot start your masternode, check if your VPS wallets are synced and check the block number on your VPS and on our Explorer . If those numbers match, then check if you have unlocked your wallet for staking (you should always practice to encrypt your wallets).

Thank you for using this guide.