

# Dixicoin (DXC) Masternode Guide for VPS



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# Requirements

There are many different ways to set-up a masternode. This method requires a Virtual Private Server, eliminating the need to run your own computer 24/7. Your funds are also safely stored on your local wallet, not the VPS.

The following requirements are needed to set-up a Masternode using this guide.

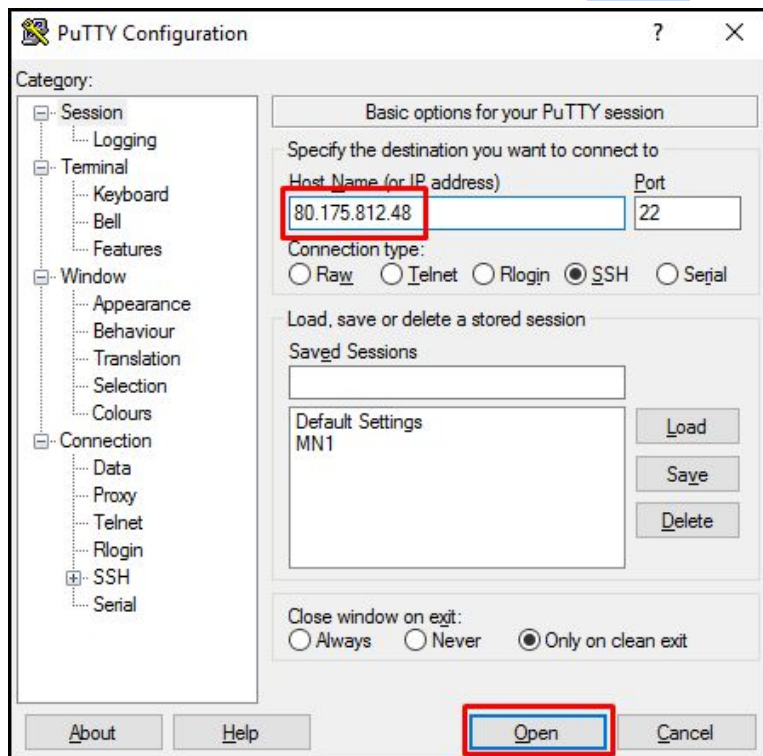
- A fully synced local wallet - download from [www.dixicoin.net](http://www.dixicoin.net)
- 1,000 DXC + 1 DXC for transaction fees (I recommend having the funds in your wallet from the beginning)
- A Virtual Private Server (VPS). Any VPS should work. Ubuntu 16.04 is good.  
**1 Masternode will work on 512 RAM, 1 Core CPU, 20 GB HDD.**
- Download and install Putty from: [www.putty.org](http://www.putty.org)
- Desktop Notepad for record keeping
- An ability to follow instructions :)

# VPS Set-up

After Purchasing the VPS, you will need to install an OS by Clicking Install OS button. Select **Ubuntu 16.04 (64-bit)** from the list, Select *YES* and hit *Continue*.

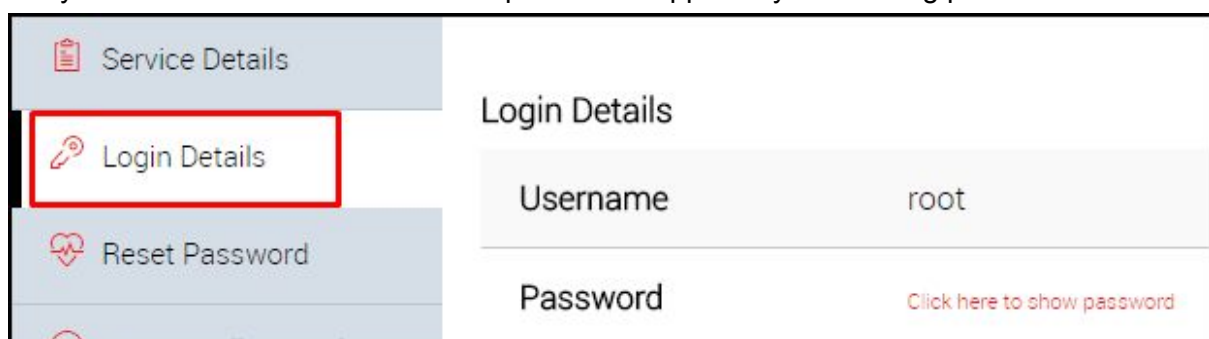
Wait until the installation is complete (approx. 5 minutes). Hit the *Installation Results* button and record the IP address of the VPS in Notepad. I will refer to this as **VPS\_IP**.

Launch Putty and log into the VPS using the **VPS\_IP**.



You may see a certificate warning, since this is the first time you are connecting to this server. You can safely click *Yes* to trust this server in the future.

You are now connected to the server and should see a terminal window. Begin by logging into your server with the user *root* and password supplied by the hosting provider.



You can copy and paste any of the following commands by selecting them in your browser, pressing Ctrl + C, then switching to the PuTTY window and right-clicking in the window. The text will paste at the current cursor location.

Now that you are logged into the system, we will update the system from the Ubuntu package repository.

```
apt update
```

and

```
apt upgrade
```

Next install **dependencies**

```
sudo apt-get install nano unzip libzmq5 software-properties-common
```

```
sudo apt-get install libboost-system-dev libboost-filesystem-dev  
libboost-chrono-dev
```

```
sudo apt-get install libboost-program-options-dev libboost-test-dev  
libboost-thread-dev
```

```
sudo apt-get install libminiupnpc-dev libzmq3-dev
```

```
sudo add-apt-repository ppa:bitcoin/bitcoin
```

```
sudo apt-get update
```

```
sudo apt-get install libdb4.8-dev libdb4.8++-dev
```

Next we will create a Folder called dixicoind, download the pre-compiled official wallet and install it. Copy and paste each one of these commands separately.

```
mkdir dixicoind
```

```
wget
```

```
https://github.com/Dixicoind-DXC/Dixicoind/releases/download/v4.2/dixi-4.2.0-aarch64-linux-gnu.zip
```

```
unzip dixi-4.2.0-aarch64-linux-gnu.zip -d dixicoind
```

```
cd dixicoind/dixi-4.2.0-aarch64-linux-gnu
```

Next we will try to run Dixicoind daemon. This should fail as there are no RPC credentials present in the config file, but this command will create the config files which will be used soon. Enter:

```
chmod +x dixicoind
```

```
chmod +x dixicoind
./dixicoind -daemon
```

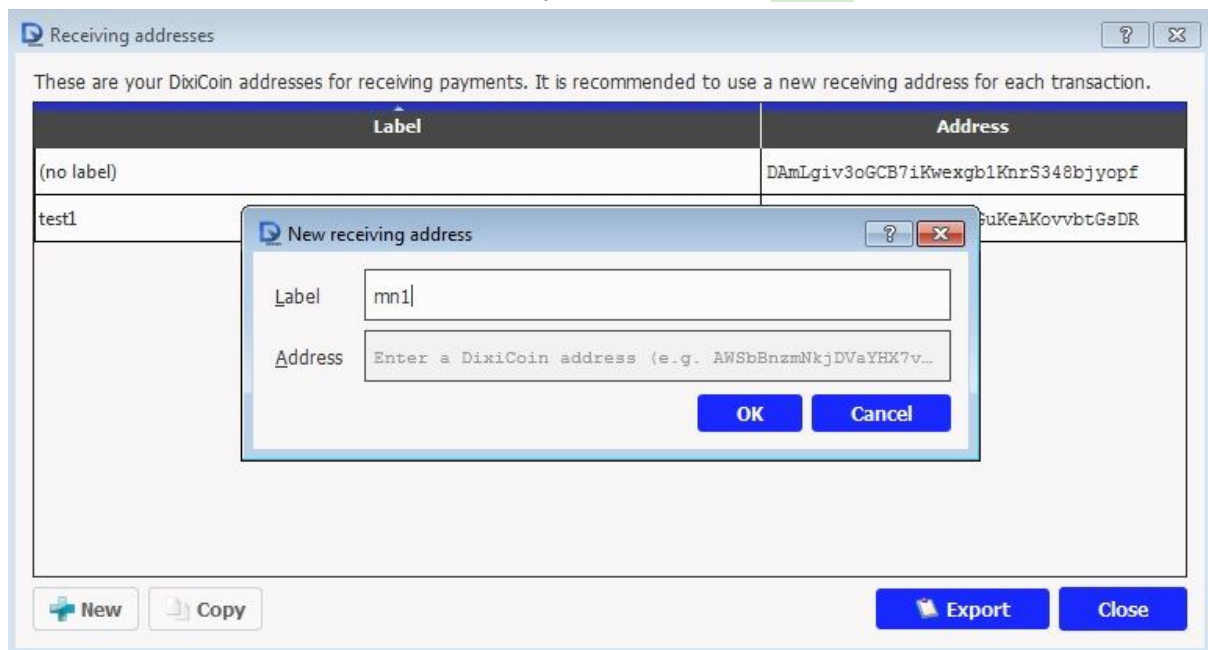
Hit enter. And Enter again.

You can now minimize the Putty window or just close it and come back to it after we complete the next step.

## Create a MasterNode Address (ALIAS) & send collateral

Open the Dixicoind wallet, go to File > Receiving Addresses > New

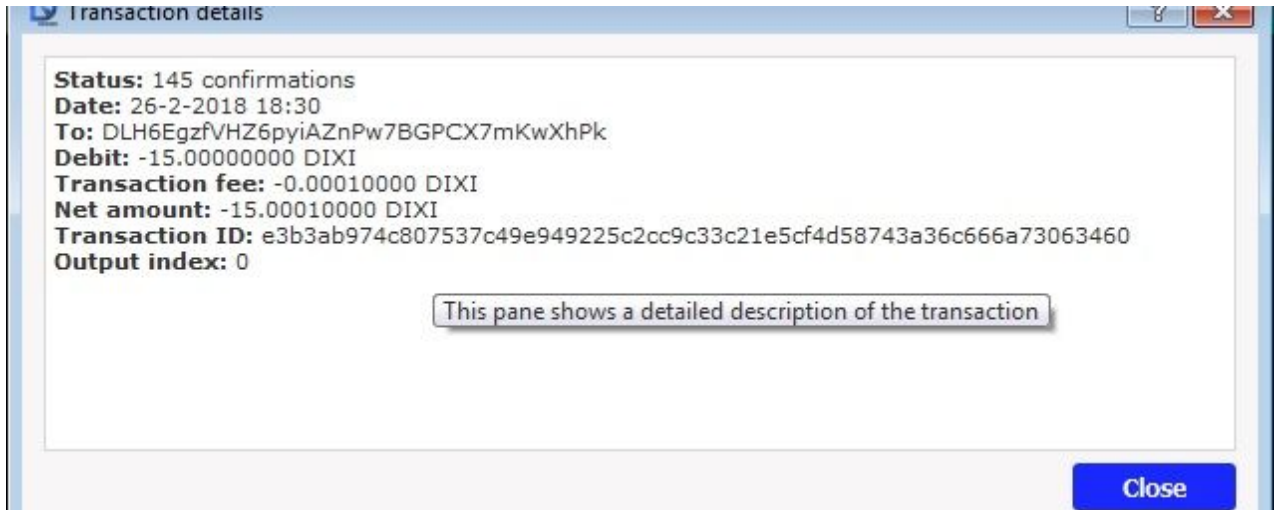
Name the Label and hit OK. The Label is your masternode ALIAS.



While you are still in the Receiving Addresses table, select the address you just created and hit the Copy button. Close this window.

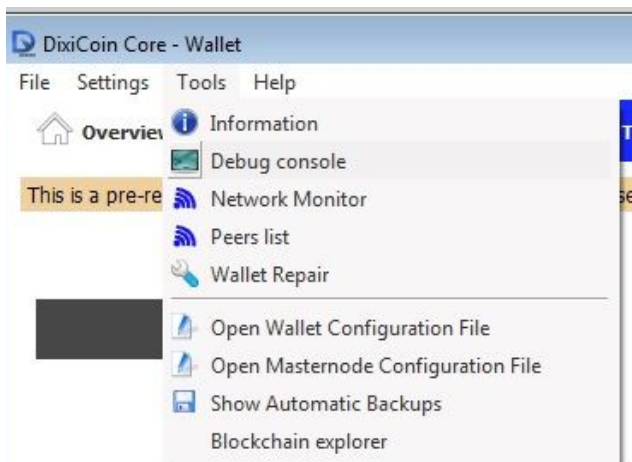
Next you will need to send the collateral (EXACTLY 1000 DXC) to this address. Do so by going to the *Send* tab and pasting the Address you just copied to the *Pay To:* field. The Label should automatically show up as the one you just named. Enter exactly 1000 into the amount field and hit Send. **PS.** This address belong to your account, you essentially send money to yourself. Your funds will stay in your account.

Now go to the *Transactions* tab and double click on the Transaction you just made. Record the **TRANSACTION\_ID** in Notepad, it will be required in the next step. You also need to wait until 15+ confirmations on this transaction before continuing .



## MasterNode private key & Index ID

Go to Tools>Debug Console



Type the following command and copy the generated key to Notepad, this will be your **PRIVATE\_KEY**

`masternode genkey`

While in debug console, type in the following and copy the last digit in quotations, this will be your **INDEX\_ID**

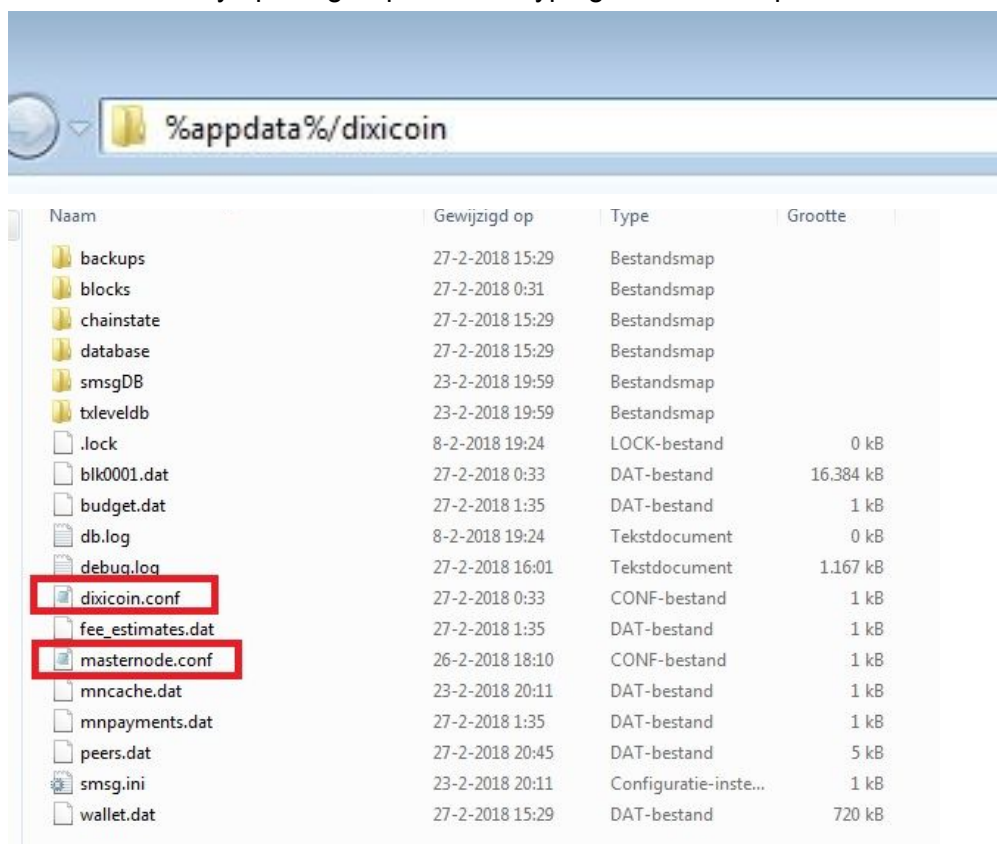
`masternode outputs`

# Edit Configuration files locally

On your local machine, go to this folder:

**%appdata%/dixicoin/**

You can do so by opening Explorer and typing that into the path field.

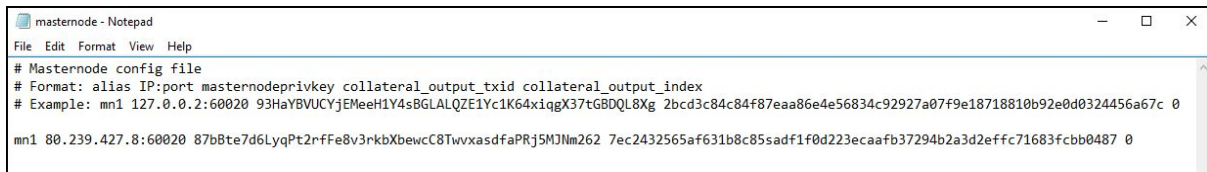


Open file “**masternode.conf**” with Notepad. (right click>open with>notepad)

Add a line below the text containing this information: *make sure to include the port after the IP address (:60020)*

**ALIAS** **VPS\_IP:61150** **PRIVATE\_KEY** **TRANSACTION\_ID** **INDEX\_ID**

It should look something like this:



```
masternode - Notepad
File Edit Format View Help
# Masternode config file
# Format: alias IP:port masternodeprivkey collateral_output_txid collateral_output_index
# Example: mn1 127.0.0.2:60020 93HaYBVUCYjEMeeH1Y4sBGLALQZE1Yc1K64xiqgX37tGBDQL8Xg 2bcd3c84c84f87eaa86e4e56834c92927a07f9e18718810b92e0d0324456a67c 0
mn1 80.239.427.8:60020 87b8te7d6LyqPt2rfFe8v3rkbXbewcC8TvwxsdfaPRj5MJNm262 7ec2432565af631b8c85sadf1f0d223ecaafb37294b2a3d2effc71683fcb0487 0
```

Next, open “**dixicoin.conf**” with Notepad and add the following: **(change the text in bold)**

```
rpcallowip=127.0.0.1
rpcuser=ANY_LONG_USERNAME
rpcpassword=ANY_LONG_PASSWORD
staking=1
server=1
listen=1
port=61150
masternode=1
externalip=VPS_IP:61150
masternodeprivkey=PRIVATE_KEY
```

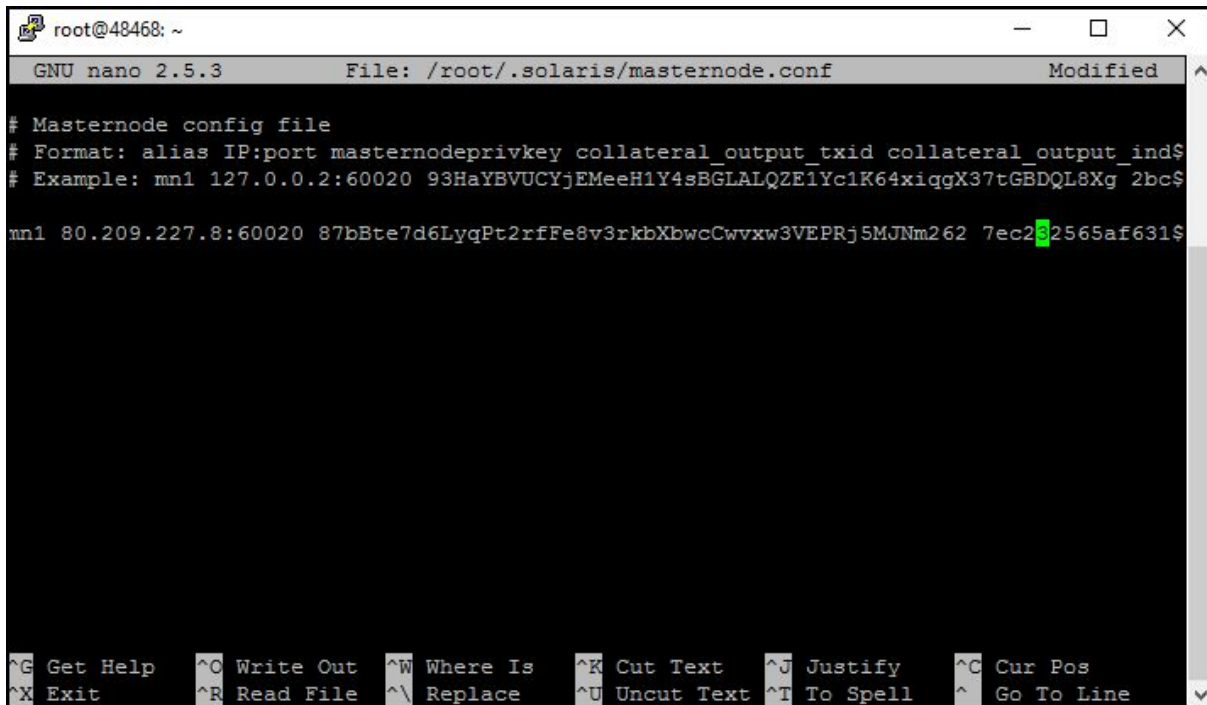
## Edit VPS configuration files

Open Putty and type:

```
nano /root/.dixicoin/masternode.conf
```

Copy the contents from the **masternode.conf** file on your machine and paste them into the Terminal (right click on mouse). Make sure the line you added is also there.





```
root@48468: ~
GNU nano 2.5.3 File: /root/.solaris/masternode.conf Modified
# Masternode config file
# Format: alias IP:port masternodeprivkey collateral_output_txid collateral_output_ind$
# Example: mn1 127.0.0.2:60020 93HaYBVUCYjEMeeH1Y4sBGLALQZE1Yc1K64xiqgX37tGBDQL8Xg 2bc$
mn1 80.209.227.8:60020 87bBte7d6LyqPt2rfFe8v3rkbXbwcCwvxw3VEPRj5MJNm262 7ec282565af631$

^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Spell ^_ Go To Line
```

Exit the file by pressing **CTRL+X**. Press **Y** to confirm and hit **Enter** to save.

Now type:

```
nano /root/.dixicoind/dixicoind.conf
```

Copy the contents from your local **dixicoind.conf** file and paste them into the terminal. Exit and Save the file by pressing **CTRL+X**, **Y** and **Enter**.

## Close and Re-run the wallets

For the configuration changes to take effect, you must restart local wallet and start up the VPS wallet.

To go to VPS and enter:

```
./dixicoind -daemon
```

Close the local wallet on your desktop and open it again for settings to take effect.

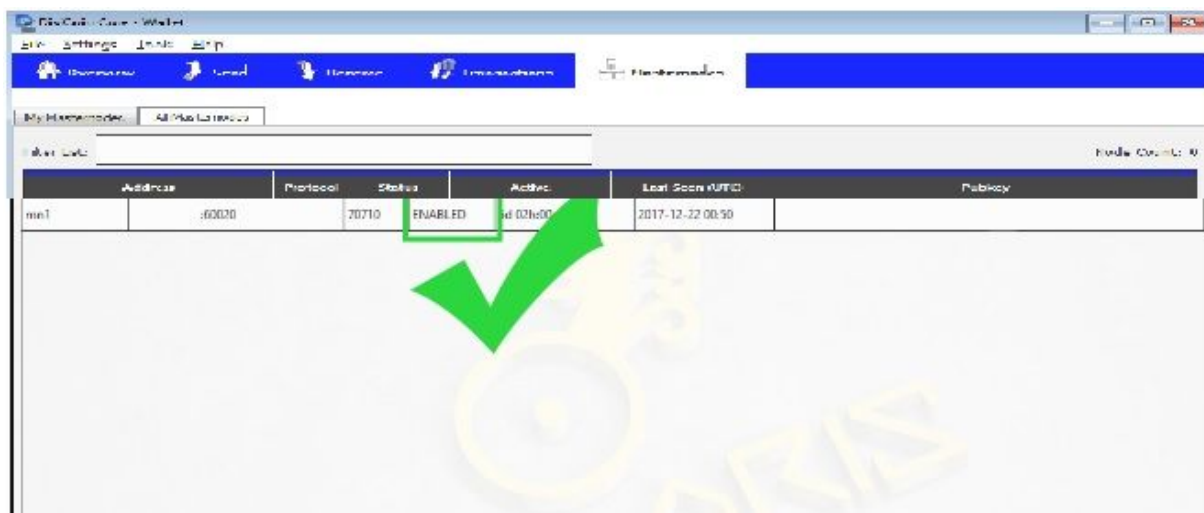
## Start MasterNode

In your local wallet, go to Tools>Debug Console and type:

`masternode start-alias mn1`

```
12:51:28 Welcome to the DixiCoin RPC console.
12:53:55 Use up and down arrows to navigate history, and Ctrl-L to clear screen.
12:53:55 Type help for an overview of available commands.
12:54:08 startmasternode alias false mn3
12:54:08 {
  "overall" : "Successfully started 1 masternodes, failed to start 0, total 1",
  "detail" : [
    {
      "alias" : "mn3",
      "result" : "successful",
      "error" : ""
    }
  ]
}
```

Check in your wallet>Masternodes tab. If the Status is ENABLED, your masternode is running.



You can now close your VPS by Exiting out of the window and close your local wallet.

## Payout

First reward can take up to 36 to 48 hours after starting the masternode.

The payout will come in as “mined” type.

# Problems

**Could not allocate vin:** You may have sent more than or less than 1000 DXC to your Alias

**Could not allocate txin:** You may be using the wrong transaction ID

If you see the following message when attempting “masternode status”:

```
{
  "vin" :
  "CTxIn(COutPoint(0000000000000000000000000000000000000000000000000000000000000000,
  4294967295), coinbase )",
  "service" : "<my_ip_here>:60020",
  "status" : "Not capable masternode: Could not connect to <my_ip_here>:60020"
}
```

Just wait for some time and try again. While I am not familiar why this happens, it seems to resolve itself after a little time.

There are many problems and issues that could arise. Come join us in one of our communities and ask for help, someone will be sure to help you.