



GlobalGreen Masternode Setup Guide for Ubuntu 16.04

Welcome to the GlobalGreen Masternode Setup Guide. This guide will assist you in getting your very own masternode running on a VPS server (in our case we make use of Vultr) with the Ubuntu 16.04 OS. It is very important that it be this version of Ubuntu for everything to work effortlessly.

If, at any point, you should get stuck using this guide, please feel free to come chat with support over at our discord channel <https://discord.gg/7USbwXD>

#####

Planning

So, before we get started, lets review what will be needed for a node to run.

- 1,000,000 GGN coins
- A [Vultr](#) VPS running Ubuntu 16.04
- A Windows local wallet
- An SSH client such as [Bitvise](#) or similar

#####

Index

In short this will be the procedure we are going to follow:

1. Creating the VPS within [Vultr VPS Service](#)
2. Installing and configuring [Bitvise](#) SSH Client
3. Setting up the local control wallet
4. Installing the masternode on the VPS via script
5. Starting the masternode for general operation

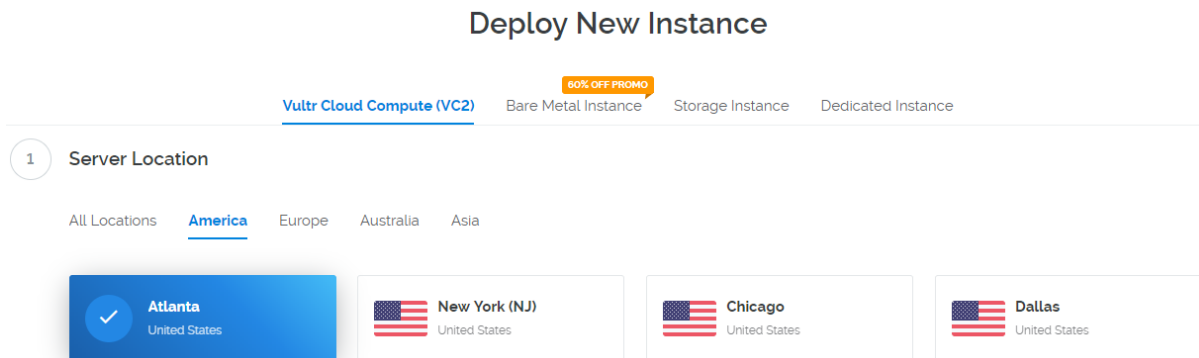
#####

1. Creating the VPS within [Vultr VPS Service](#)

- a) Register at [Vultr VPS Service](#)

**At the time of creating this guide Vultr is giving new users \$50 to test their platform if they use the link above (or in the index). That's 10 months free for the VPS size we are planning on using.









- b) Once you are registered and logged in proceed to the deployment page by following this link : <https://my.vultr.com/deploy/> or clicking on the huge blue “+” sign to the top right when under the server tab.
- c) Choose a location for your server. It doesn't really matter where, but its preferred choosing somewhere as close to your location as possible.



d) Choose a server type: **Ubuntu 16.04 (Very important)**

2 Server Type

64 bit OS 32 bit OS Application Upload ISO ISO Library Backup Snapshot

 CentOS Select Version	 CoreOS Stable x64	 Debian Select Version	 Fedora Select Version
 FreeBSD Select Version	 OpenBSD Select Version	 Ubuntu 18.04 x64	 Windows Select Version

e) Choose the server size: This is up to you to choose which size you want and how strong u want the machine to be, but for this purpose the smallest \$2.50 (IPv6 only) server is more than enough for what we need. (Note this is for US locations only) The smallest server size in all locations NON-US is \$5.00 (IPv4)

3 Server Size

IPv6 ONLY 10 GB SSD \$2.50/mo \$0.004/h	25 GB SSD \$5/mo \$0.007/h	55 GB SSD \$10/mo \$0.015/h	80 GB SSD \$20/mo \$0.03/h
1 CPU 512MB Memory 500GB Bandwidth	1 CPU 1024MB Memory 1000GB Bandwidth	1 CPU 2048MB Memory 2000GB Bandwidth	2 CPU 4096MB Memory 3000GB Bandwidth

f) Choose what you would like to call your server (you can make this anything u want)
When you have chosen a name go ahead and click “Deploy Now”

7 Server Hostname & Label

Enter server hostname EnterYourNameHere	Enter server label EnterYourNameHere
--	---

Servers Qty: Summary: **\$2.50/mo** (\$0.004/hr) [Deploy Now](#)

#####

**At this point your VPS will be set up. You will be able to see the text “Installing” to the right side of your server as it will appear in the list on the servers tab.

When the “Installing” text changes to “Running” your VPS is ready to be logged into.

#####

Section 2: Installing and configuring [Bitvise](#) SSH Client

- a) The Bitvise client can be downloaded from [here](#).

It is not mandatory to use Bitvise, any SSH client will suffice. I just find Bitvise easy to install and use for some of its extra features.

Other typical free SSH clients include: Kitty, Putty, SuperPutty, etc.

Any quick google search will have u land on one that will work if you. For this guide we will cover and use Bitvise.

- b) Choose the correct version of the installer based on your operating system and proceed to download and install the application.

Download Bitvise SSH Client

[Bitvise SSH Client installer](#)

Current version: 8.27, size: 21.1 MB

The link is to Amazon CloudFront and should be very reliable. If it does not work, try [alternative](#).

If the installer downloads but does not start, [check below](#).

Our installers are **cryptographically signed**. Our most recent installers use an Extended Validation digital certificate from DigiCert. Do not run any installers for our software that do not carry a valid digital signature by Bitvise Limited.

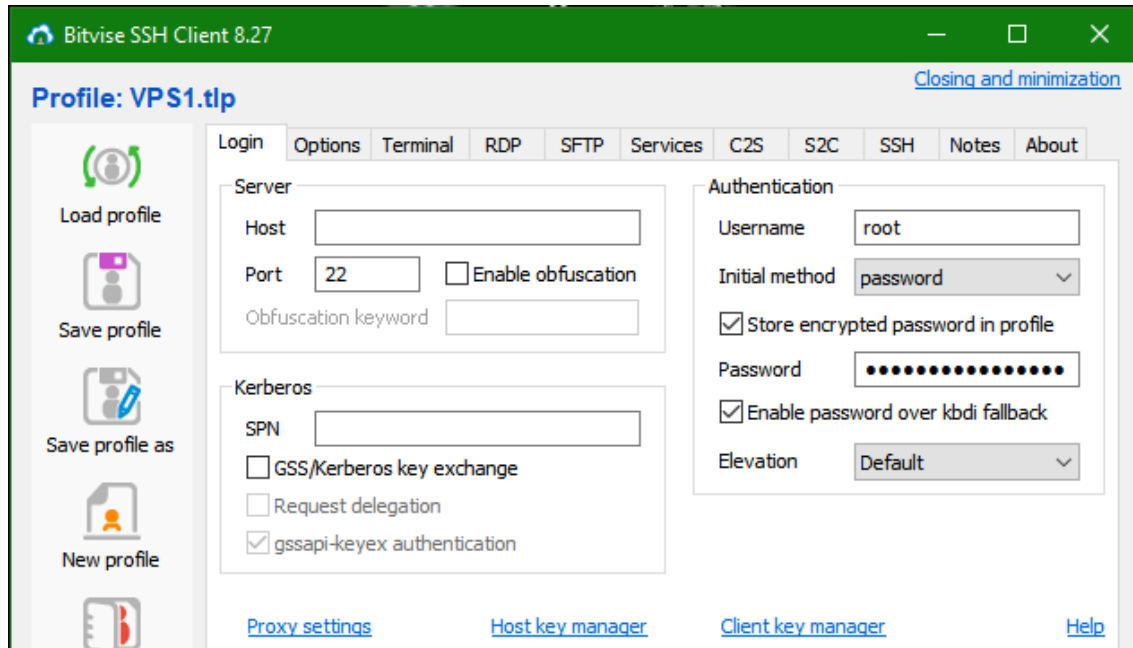
Bitvise SSH Client is [easy to uninstall](#).

Using Bitvise SSH Client requires you to read and agree with its [License Terms](#).

Bitvise software **does not** contain ads, install product bundles or collect user data for sale. We are 100% supported by users who license our software. Thank you!

- c) Once the installation is complete start off by launching Bitvise from the desktop icon that was created (if you opted to do so). If not, navigate to where the application is installed and double click the exe

**When launched you will be met with a window like this:



**Note the Host and Username / Password fields. This is where we will be entering our VPS information.

- d) To get our hands on the VPS login information log into the Vultr website and navigate to the server tab on the left. Go into the details page for your server by clicking on its name on the right. You will be met with this:

Server Information (MasterNodePrimary)

95.100.100.100 Amsterdam Ubuntu 16.04 x64

Overview Usage Graphs Settings Snapshots Backups DDOS

Bandwidth Usage: 83.3GB/1000GB

CPU Usage: 28%

Current Charges: \$1.89

Location: Amsterdam

IP Address: 95.100.100.100

Username: root

Password:

CPU: 1 vCore

RAM: 1024 MB

Storage: 25 GB SSD

Bandwidth: 83.3 GB of 1000 GB

Label: MasterNodePrimary

Tag: [Click here to set]

OS: Ubuntu 16.04 x64

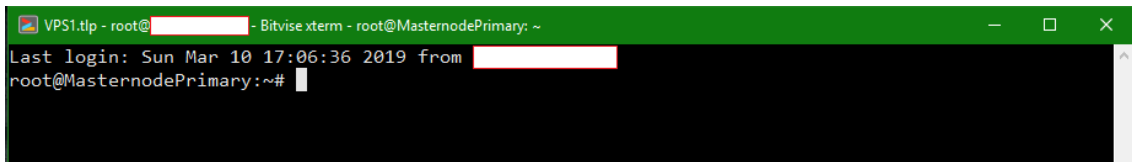
- e) Using the button to the right of each marked field (in the previous image) copy the IP address and password and enter it into the Bitvise fields 'Host' and 'Password' respectively.

**If the password field is not showing, be sure to set the 'Initial Method' to 'password' on the Bitvise screen (as shown).

- f) In the 'Username' field enter 'root' (as given by the VPS upon creation)
- g) Click on "Login" to the bottom of the Bitvise window. The application will now log into the VPS with the given information.

**The first time a connection is made to a new VPS Bitvise will prompt you to Accept the login credentials. You can safely click on 'Accept & Save' to avoid this prompt in the future. Bitvise will open 2 windows by default, one being the terminal, and the other a graphical file explorer of your VPS root. The file explorer can be minimised.

- h) When you see the screen below you are logged into the VPS and ready for the next section.

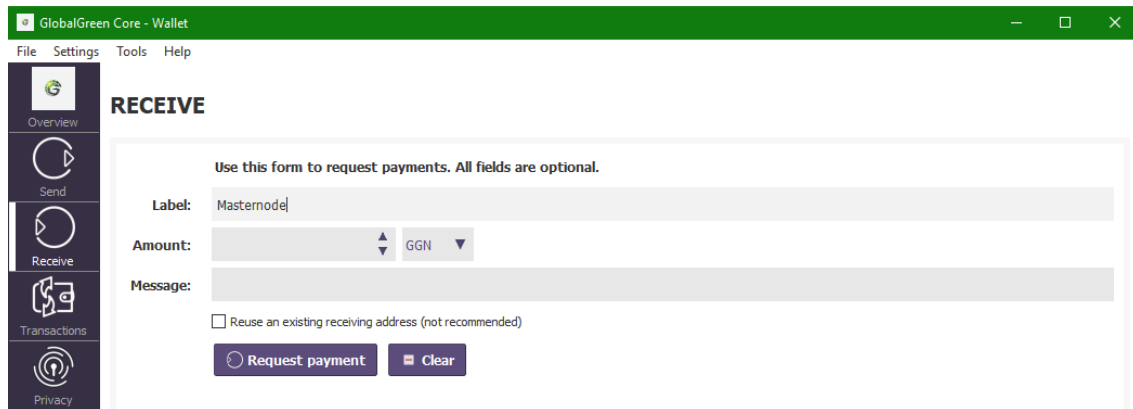


#####

Section 3: Setting up the local control wallet

- a) Download and install local Windows wallet for GGN from <https://globalgreen.cc/>
- b) Unzip and run the wallet on your local machine. It is always recommended to wait for a full sync before trying to operate the wallet, but not mandatory.

- c) Navigate to the receive tab and enter a label for the wallet address you will be sending your collateral to and press Request Payment.

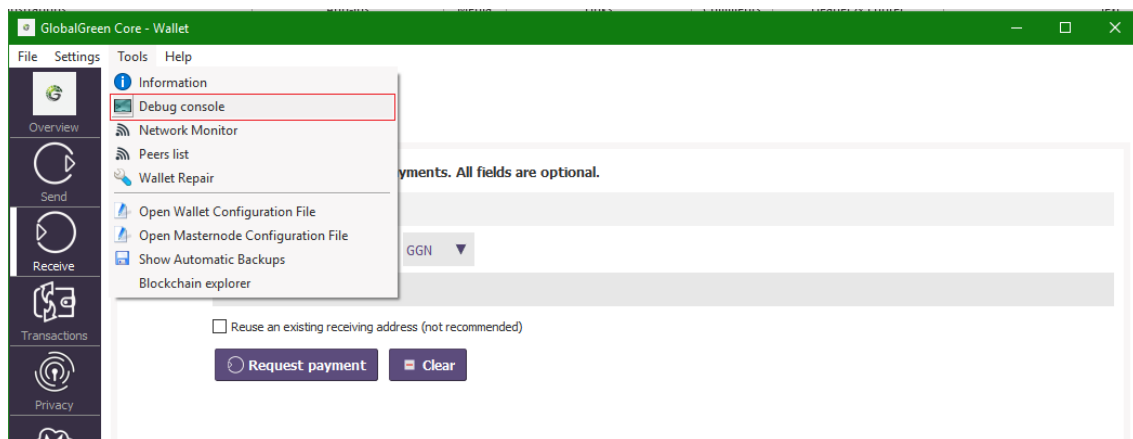


- d) The window below should appear. By pressing the 'Copy Address' button you have the address for your masternode collateral in the clipboard.

- e) Send EXACTLY 1,000,000 GGN to the receive address created in the step above.

** Always keep fees in mind when sending from an exchange. You must make sure that EXACTLY the above amount ends up in the wallet address, not less, not more. Some users prefer sending a little more from the exchange to the wallet, and then just doing a self-payment within the wallet to secure the coin in the correct address.

- f) Open a temporary space, like Notepad or the like to paste some information down. Wait for the payment / self-payment to reach at least 1 confirmation, then proceed to open the debug console.



- g) In the console type the following command and copy the fields marked with TXID and Index to the notepad when you receive a reply. No other text is needed.

masternode outputs



```
17:29:05 masternode outputs
17:29:05 [
  {
    "txhash": "4494954[redacted]bba61b092f",
    "outputidx": 0
  }
]
```

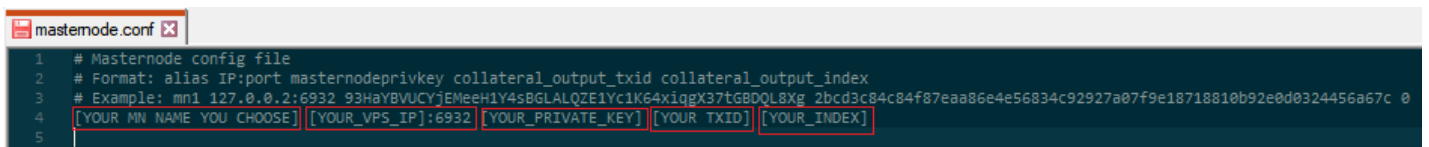
- h) In the console type the following command and copy the fields marked with TXID and Index to the notepad when you receive a reply. No other text is needed.

masternode genkey



```
17:33:24 masternode genkey
17:33:24 6a6f[redacted]teUDwx
Private key
```

- i) Close the debug console and go to tools -> Open Masternode Configuration File. As you can see from the image below there will be an example already in the document itself. We are going to create our own line of information, so it looks like the example, but using the text we just collected in our notepad.



```
1 # Masternode config file
2 # Format: alias IP:port masternodeprivkey collateral_output_txid collateral_output_index
3 # Example: mn1 127.0.0.2:6932 93HaYBVUCYjEMeeH1Y4sBGLALQZE1Yc1K64xiqgX37tGBDQL8Xg 2bcd3c84c84f87eaa86e4e56834c92927a07f9e18718810b92e0d0324456a67c 0
4 [YOUR MN NAME YOU CHOOSE] [YOUR_VPS_IP]:6932 [YOUR_PRIVATE_KEY] [YOUR_TXID] [YOUR_INDEX]
5
```


To explain this a bit more here is an explanation of the fields marked in red:

[YOUR MN NAME YOU CHOSE] – This can be anything you like, just keep it one word.

[YOUR VPS_IP]:6932 – This is the IP address we copied from Vultr earlier to log into our VPS. Note the port number and : at the end. Do not delete this, simply paste the IP in space provided (without the brackets)

[YOUR_PRIVATE_KEY] – This is the key we got in step h) above

[YOUR_TXID] – This is the TXID we got in step g) on the previous page

[YOUR_INDEX] – This is the Index we got in the step g) on the previous page.

- j) Once you have entered your information in such a manner that it resembles the example (but substituted with yours), proceed to save the document and then exit the wallet, then relaunch it. The wallet will fully sync again, but this time your coins are locked for the MN and you will see an entry under the masternode tab. Keep notepad open at this point, we are going to use it once more in the next section.

#####

Section 4: Installing the masternode on the VPS via script

- a) Copy the lines below one by one and (with the terminal window selected) right click to paste the copied line into the terminal, then press ENTER. Wait for the prompt between each command.

```
wget https://github.com/OfficialGlobalGreen/ggn/releases/download/v1.0/gg_install.sh
```

```
chmod +x gg_install.sh
```

- b) Start the script by copying this line into the terminal and right clicking, or typing it in then pressing ENTER

```
bash gg_install.sh
```

- c) The script will now run. There are a few prompts involved that require you to either press Y or N and ENTER to proceed. All fresh new installations just answer Y (See below pictures)

```
'-:. .ssyyyys+ '
      ://+++ oyyhhddy hdy/.
      '--' .::/// :syyhhdo .mmmNNh/
      '-:--' '-:/:':::/+o: /mmmNNNNm-
      '' '-_' '' '' '' '-:////:.'./sdNNm/ /+
      .//:.' '' '' .:://+ossyhysoo/. -o..yNNh'
      .://:-. ' --:://+os+--+syhhho. +mNNNd'
      .+: ' .-.' '-- :://+o./shddmmmmNNNs.hNNNh
      osso+: -//: :////:-' '-./ymmmNNNNNd- sNNN+
      '' .:/o- :++++-.+/. '' '' .-:+s. /++/
      /hs+: ' -ssoooo-'
      /yhhh. syyyyyy+ .-/+ooo+/:.
      .-... 'hhhhhh. 'sdNNNNNNNNNNNNmho:
      .mmd hddddd. ./o+:--...-/shmmmmmmms
      +oos' :/sdmmo 'dddhd/
      'hdd+ +Ny+//+o. 'sdhhyyy'
      -ys+ ymmmdhhhy- +ddhyys.
      odd. odhhhhddho:.' '-:'ymddhys.
      'os/. :yysyhdmmNNNNNNy:.omNmmddo'
      'oNy' :oyhdmmdy+- .hNNNNNmmo.
      ''+y: '.-:://+shNNNNNNms/'
      .--+:' -/osyhyso+: '
      '':-.'

**** Welcome to the GlobalGreen MN Installer ****
**** ****
```

```
VPS2.tlp - root@ [redacted] :22 - Bitvise xterm - root@MasternodeSecondary: ~
Do you want to install all needed dependencies [Y/N] If you have already select N
Y
```

```
VPS2.tlp - root@ [redacted] :22 - Bitvise xterm - root@MasternodeSecondary: ~
Do you want to install the node daemon files? (please choose no if you have done so already)? [Y/N]
Y
```

- d) When met with this screen be very careful. Navigate to your notepad with your copied information and copy the private key we gathered in Section 3(h). Right click on the terminal window to paste it and press ENTER.

```
VPS2.tlp - root@ [redacted] :22 - Bitvise xterm - root@MasternodeSecondary: ~
Configuring IP - Please Wait.....
IP Configuration Done

Please paste your GlobalGreen Masternode genkey by right clicking. Once masternode genkey is visible
in the terminal please hit ENTER.
NOTE : If your private key is incorrect the node will not successfully install
```

- e) Upon seeing the image below your masternode is syncing to the blockchain. When the screen disappears your masternode will be successfully installed. Please try to not interrupt the process until you see the final screen.

```
VPS2.tlp - root@ [redacted] :22 - Bitvise xterm - root@MasternodeSecondary: ~
Node is now Syncing...WAIT TILL DONE..Maybe go grab a coffee
```

#####

Section 5: Starting the masternode for general operation

- a) At this point return to your windows wallet and navigate over to the Masternode tab. There are two ways of telling your masternode to start... 1. Right click on the entry and select 'Start Alias'. You should receive a successful message. If that does not happen (and it might especially when wallets are in development) ... then we go over to option 2. Go to Tools -> Debug Console [Section 3(f)]
- b) In the text box to the bottom of the console type in the following:

```
Startmasternode alias 0 [YOUR NODE NAME]
```

Now with the above [YOUR NODE NAME] im referring to the name you chose to save in your **masternode.conf file in [Section 3(i)]. This should also yield you with a 'successful' message in the console itself.

- c) **LAST STEP** : In the terminal window lets run a check if the node is successfully running. Do this by typing in and pressing ENTER :

```
globalgreen-cli masternode status
```

****You should see *status 4***

If you do, congratulations! Your masternode is successfully set up and running. Feel free to close the VPS and Bitwise windows as well as the local machine wallet if you choose to do so. The node does not need the wallet to be open to keep running. If you do not get the above reply, or at any point get stuck during the setup please feel free to contact our discord channel for support at <https://discord.gg/7USbwXD>

#####

Donations:

Not necessary, but always highly appreciated.

BTC: 16vYmJg3xFeqMJ4uXWS7eEzWuCBLECMix

ETH: 0xc8e1b9606c7e85faab1b95a47496ce6e6ad2a5c9

LTC: LagaZdrvoXPLqvUZubnQvVeGXZfNd5Frwd

PENG: PKYL6bKn1gKXjH9KMwvuKps5BPnBWKQNvw

GGN: GWtcXYLX1mZxB9GMiagShzhcjt9VjiGZKd

PEPS: PTsTAiqas68Yfu47MovhQXh7j5wYgKd9Hg

XPSC: ShLFVy4krMPXjS3tWG5sfhtyDEieCC3kKk