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# Installing Ragnarok Masternodes on Ubuntu 16.04 VPS

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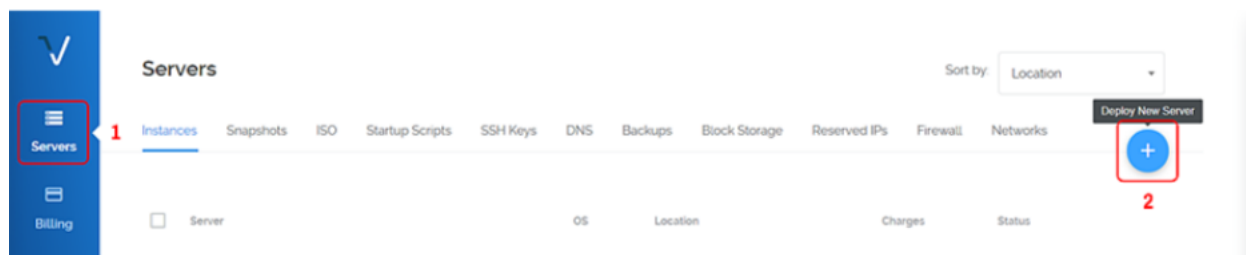
## I. Download Windows Wallet

- Download wallet from [Ragnarok Wallet](#) and run **ragnarok-qt.exe**
- Click on **File** -> **Receiving Addresses** -> **New** -> Fill Label= MN1 Then OK
- Click on **File** -> **Receiving Addresses** -> Copy that MN1 Address
- Send MN collateral to the copied address
- While Waiting for the Collateral to get 15 confirmation, you can do VPS section below

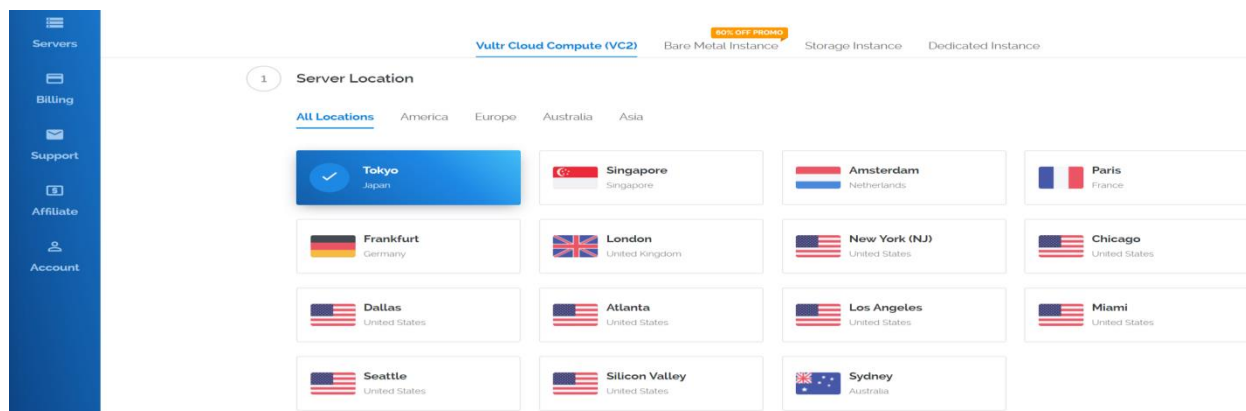
## II. Choose a host for your Masternode VPS

For this guide, I' m going to use **Vultr VPS** and full disclosure:

- Register and Sign in to [Vultr](#) or use [DigitalOcean](#)
- Setup New VPS



- Select Location



## ➤ Select Server Type: Ubuntu 16.04

### 2 Server Type

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

The screenshot shows a grid of operating system options. The 'Ubuntu' option is selected, and the version '16.04 x64' is highlighted with a red box. Other options include CentOS 7 x64, CoreOS Stable x64, Debian Select Version, Fedora Select Version, FreeBSD Select Version, OpenBSD 6.3 x64, and Windows Select Version.

## ➤ Select Server Size: \$5/Month

### 3 Server Size

The screenshot shows a grid of server size options. The '25 GB SSD' plan is selected, which costs \$5/mo (\$0.007/h). Other plans include 20 GB SSD (\$2.50/mo), 40 GB SSD (\$10/mo), 60 GB SSD (\$20/mo), 100 GB SSD (\$40/mo), 200 GB SSD (\$80/mo), and 300 GB SSD (\$160/mo). Each plan lists its CPU, memory, and bandwidth specifications.

## ➤ Type Host Name, Server Qty and Deploy now

### 8 Server Hostname & Label

Enter server hostname: RAGNAI

Enter server label: RAGNAI

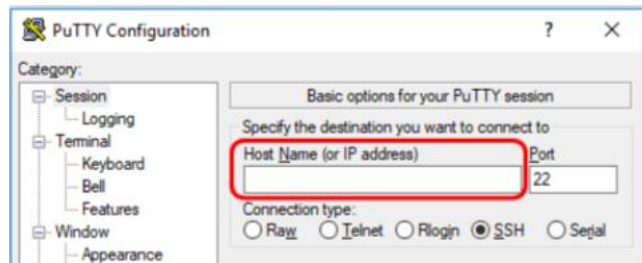
Servers Qty: - 1 +

Summary: \$5.00/mo (\$0.007/hr)

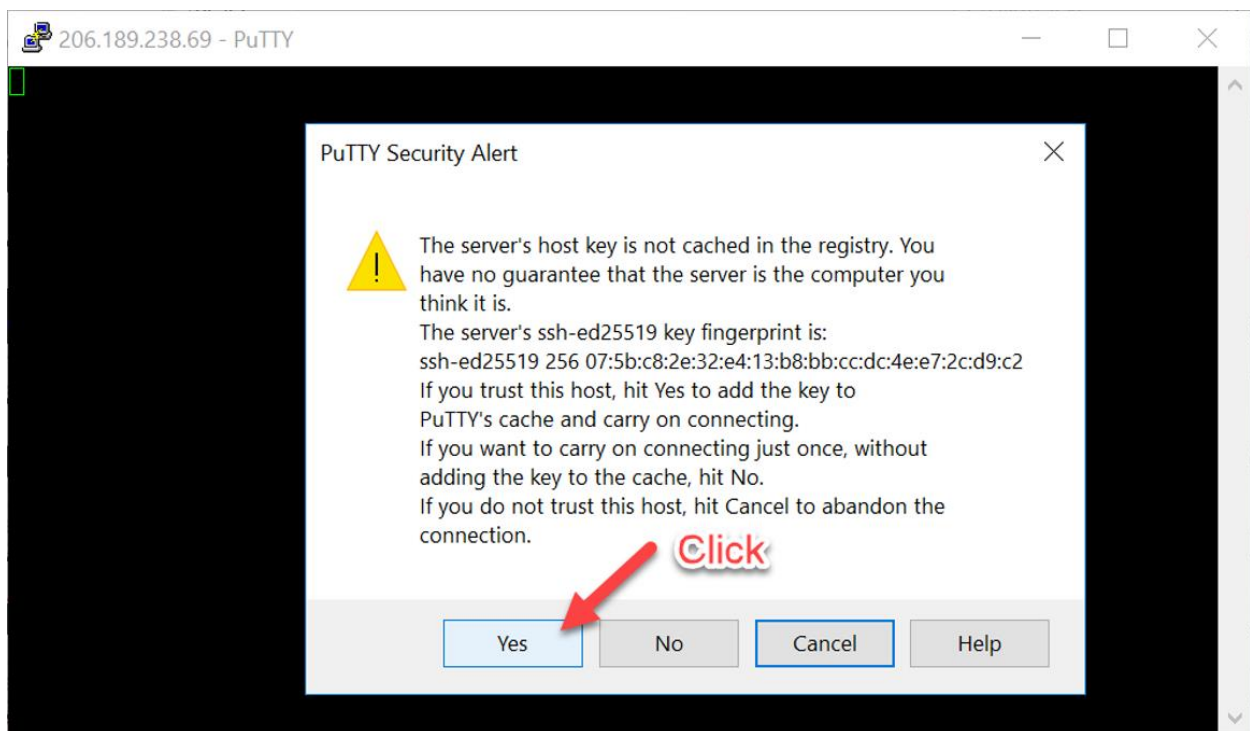
Deploy Now

### III. Download and open PuTTY

- Fill your RAGNA1 IP Address to PuTTY window and Click Open



- Fill the user and password to PuTTY



## IV. Installing Masternode on VPS using PuTTY

Once logged in, enter the following commands by copying them and Right Clicking within the PuTTY terminal to paste them.

```
wget https://raw.githubusercontent.com/ragnaproject/mnscripts/master/ragna_install.sh
chmod +x ragna_install.sh
./ragna_install.sh
```

Press enter after each command, the script should start installing your masternode while waiting we can proceed to Windows/Mac/ Local wallet

```
Searching and removing old Ragnarok files and configurations
* Done
Preparing the VPS to setup. Ragnarok Masternode
```

This may take a while after it finish doing it thing you should see something like this

```
Enter your Ragnarok Masternode GEN Key. Or Press enter generate New Genkey
```

Open your local wallet click on tools -> debug console then type masternode genkey and you should get something like

```
22:31:08 [i] masternode genkey
22:31:08 [o] 4bP7xx7JxvYX2oDGCryUc6ggNLdHwLDsialg5BiZGLUywhwggdH
```

Copy and paste that on your VPS and it will continue then you should see something like this

```

Installing and setting up firewall to allow ingress on port 8853

=====
Ragnarok Masternode is up and running listening on port 8853.
Configuration file is: /root/.ragnarok/ragnarok.conf
Start: systemctl start Ragnarok.service
Stop: systemctl stop Ragnarok.service
Check Status: systemctl status Ragnarok.service
VPS_IP:PORT 80.240.24.198:8853
MASTERNODE GENKEY is: 4bP7xx7JxvYX2oDGCryUc6qqNLdHwLDsia1g5BiZGLUywhwgqH
Check ragnarok-cli getblockcount and compare to https://chain.ragnaproject.io.
Confirm Collateral is fully confirmed and start Masternode.
Use ragnarok-cli masternode status to check your MN Status.
Use ragnarok-cli help for help.
=====
Donations are always welcome.
=====
RAGNA: rJDghSNmXvjEVQBV1n5ta5wmXfD3gvCrYc
=====
root@RAGNA1:~#

```

Use this command to check that your VPS is fully synced `ragnarok-cli getinfo` or you can use `watch ragnarok-cli getinfo` this will show you the sync process and it updated every 2 secs.

After you confirm it fully synced you can follow the steps below to start your masternode

## V. Configuring masternode conf file

click on Tools -> Open Masternode Configuration File

Then fill your masternode details in this format

```
Mn alias <ip>:8853 masternodeprivkey Mnoutput-txid index
```

**Mn alias** = Any name you want the masternode to be

Change <ip> to your VPS IP

**masternodeprivkey** you can get this by clicking on Tools -> Debug Console then type **masternode genkey** and replace **masternodeprivkey** with the output.

**Mnoutputs-txid** you can get this by clicking on Tools -> Debug Console then type **masternode outputs** and replace **Mnoutputs-txid** with the long one

**Index** this is the short part at the end of what you get when you use the command **masternode outputs** this is mostly 1 digit

*If you follow the steps it should look like this*

```
mn1 127.0.0.1:8853 93HaYBVUCYjEMeeH1Y4sBGLALQZE1Yc1K64xiqgX37tGBDQL8Xg 2bcd3c84c84f87eaa86e4e56834c92927a07f9e18718810b92e0d0324456a67c 0
```

*After that close the wallet and open it again and wait for it to sync, after it fully synced follow the step below*

## VI. Starting Masternode

Click on Tools -> Debug Console ( in console type `startmasternode alias false <name>` replace `<name>` with your masternode alias and press enter for example `startmasternode alias false mn1` )

You should get a message about MN started successfully.

```
startmasternode alias false MN1
{
  "overall" : "Successfully started 1 masternodes, failed to start 0, total 1",
  "detail" : [
    {
      "alias" : "MN1",
      "result" : "successful",
```

After this Go back to VPS and use the commands below to check if masternode is up and running

`ragnarok-cli masternode status` it should show like the one below

```
"message" : "Masternode successfully started"
```

If that is correct then you are good to go

**If you run into any issue, have questions join our [Discord](#)**

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## Ragnarok Official Links

**Website** : <https://ragnaproject.io>

**Explorer** : <http://159.65.64.248:88>

**Discord** : <https://discord.gg/9nFBH5H>

**Github** : <https://github.com/ragnaproject/Ragnarok>

**Twitter** : <https://twitter.com/ragnaofficial>

**Announcement**: <https://ragnaproject.io/bitcointalk>

**Telegram**: <https://ragnaproject.io/telegramann>

