

# LINUX VPS GUIDE

**Pre-requisites: (this guide assumes you are using windows)**

- Philscurrency Wallet

Download PHILS wallet if you don't have already from the link below

<https://github.com/philscurrency/philscurrency/releases/download/v1.2/philscurrency-1.0.0-win64-setup.exe>

-Wait till the wallet synchronizes completely

-If you have any trouble with connections, copy and paste the following lines into the configuration file, save and close it. Restart your wallet

***addnode=52.14.182.71:36003***

***addnode=13.59.107.218:36003***

***addnode=52.14.113.155:36003***

***addnode=18.220.221.252:36003***

-You can find configuration file at Tools=>Open Configuration File

- 12,000 PHILS for master-node collateral
- Download and install Putty

<https://www.putty.org/>

- Linux VPS from any hosting provider of your choice, in this guide I use <https://www.vultr.com/>

-Sign up or login to vultr

-Deploy new server by clicking on the "+" button on right top corner

-Select server location of your choice

## 1 Server Location

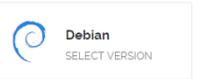
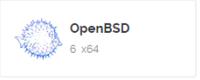
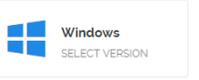
< [All Locations](#) America Europe Australia Asia

-Select server type and size as shown below

## 2 Server Type

< [64 bit OS](#) 32 bit OS Application Upload ISO ISO Library Backup Snapshot

## 3 Server Size

<p>Temporarily Sold Out</p> <p>20 GB SSD</p> <p><b>\$2.50/mo</b> \$0.004/h</p> <p>1 CPU 512MB Memory 500GB Bandwidth</p>	<p>25 GB SSD</p> <p><b>\$5/mo</b> \$0.007/h</p> <p>1 CPU 1024MB Memory 1000GB Bandwidth</p>	<p>40 GB SSD</p> <p><b>\$10/mo</b> \$0.015/h</p> <p>1 CPU 2048MB Memory 2000GB Bandwidth</p>	<p>60 GB SSD</p> <p><b>\$20/mo</b> \$0.03/h</p> <p>2 CPU 4096MB Memory 3000GB Bandwidth</p>
<p>100 GB SSD</p> <p><b>\$40/mo</b> \$0.06/h</p>	<p>200 GB SSD</p> <p><b>\$80/mo</b> \$0.119/h</p>	<p>300 GB SSD</p> <p><b>\$160/mo</b> \$0.238/h</p>	

-Click on "Deploy Now" button at the right bottom

You will see a page like below, wait till the server is ready

**Server Information**  
 45.63.115.16 Paris Ubuntu 16.04 x64

Overview Usage Graphs Settings Snapshots Backups DDOS

Please note: Your server may still be finishing installing and booting up during the first few minutes of activation. If the server does not ping, you can [view the console](#) to monitor progress.

Bandwidth Usage: 0GB/1000GB  
 CPU Usage: --  
 Current Charges: \$0.01

Location: Paris  
 IP Address: 45.63.115.16  
 Username: root  
 Password: [masked]

CPU: 1 vCore  
 RAM: 1024 MB  
 Storage: 25 GB SSD  
 Bandwidth: 0 GB of 1000 GB

Label: [Click here to set]  
 Tag: [Click here to set]  
 OS: Ubuntu 16.04 x64

-Open Putty and enter your VPS IP address as shown below

**PuTTY Configuration**

Category:

- Session
  - Logging
- Terminal
  - Keyboard
  - Bell
  - Features
- Window
  - Appearance
  - Behaviour
  - Translation
  - Selection
  - Colours
- Connection
  - Data
  - Proxy
  - Telnet
  - Rlogin
  - SSH**
  - Serial

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address): 45.63.115.16 Port: 22

Connection type:  
 Raw  Telnet  Rlogin  SSH  Serial

Load, save or delete a stored session

Saved Sessions

Default Settings  
 WinSCP temporary session pool

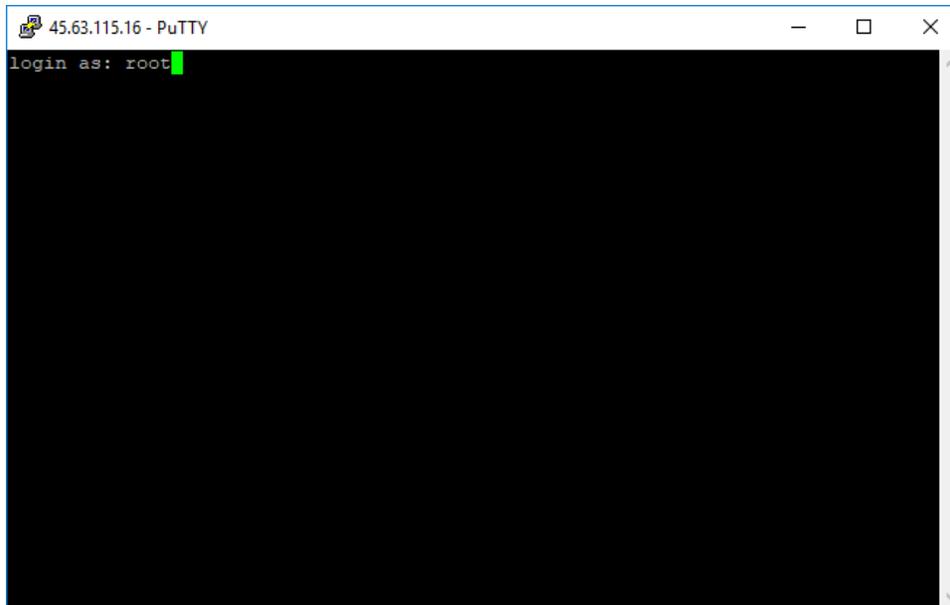
Load Save Delete

Close window on exit:  
 Always  Never  Only on clean exit

About Open Cancel

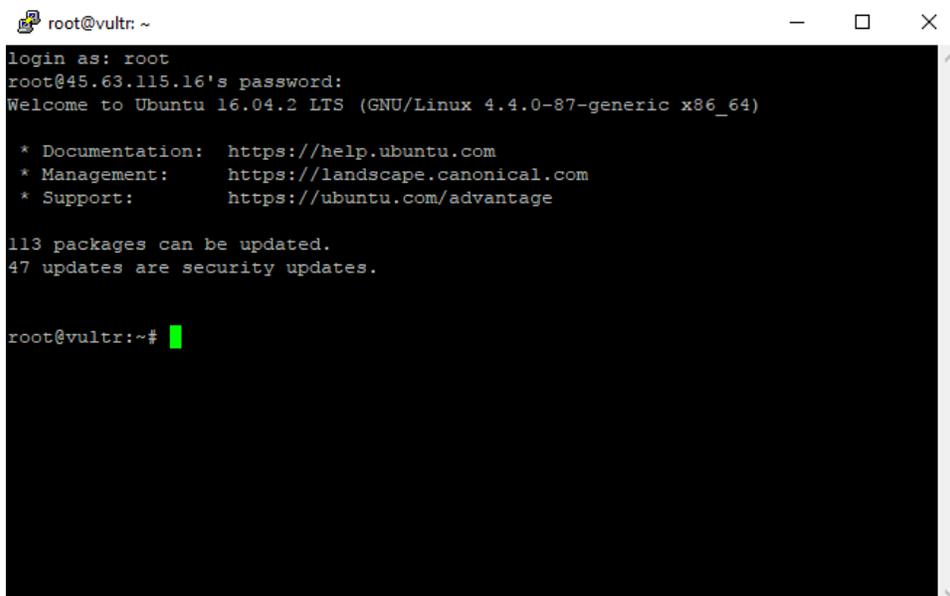
-Leave rest of settings same, click open, you will see a terminal like below

-Login with username as root

A terminal window titled "45.63.115.16 - PuTTY" with a black background. The text "login as: root" is displayed in white, followed by a green cursor. The rest of the terminal is empty.

```
45.63.115.16 - PuTTY
login as: root
```

-Enter the password you got on your server page, copy and paste it, hit ENTER

A terminal window titled "root@vultr: ~" with a black background. It shows the login process: "login as: root", "root@45.63.115.16's password:", "Welcome to Ubuntu 16.04.2 LTS (GNU/Linux 4.4.0-87-generic x86\_64)", and system update information. It ends with the prompt "root@vultr:~#".

```
root@vultr: ~
login as: root
root@45.63.115.16's password:
Welcome to Ubuntu 16.04.2 LTS (GNU/Linux 4.4.0-87-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

113 packages can be updated.
47 updates are security updates.

root@vultr:~#
```

-Once you have logged in, download the user script by copy paste below line

**wget**

***[https://raw.githubusercontent.com/paranoidtruth/phils\\_install/master/add\\_user.sh](https://raw.githubusercontent.com/paranoidtruth/phils_install/master/add_user.sh)***

-Hit ENTER

-We are going to use the script to add a user, something like philadmin, keep it simple, no spaces/special characters, you can skip all the name/phone etc.

-Copy paste below line

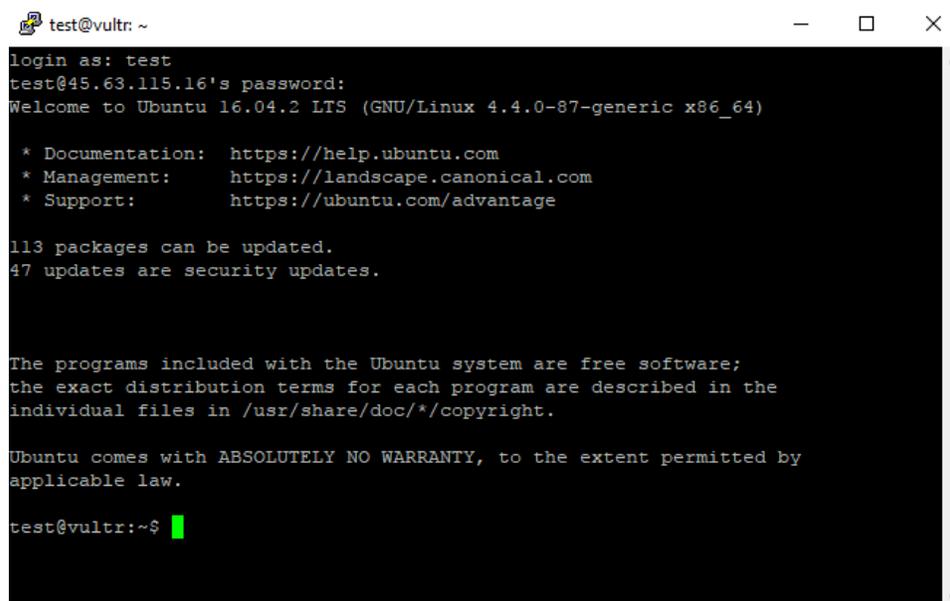
```
sh add_user.sh
```

-Hit ENTER

-Give username and password of your choice

-Once the script adds a new user, restart your Putty and log in as the new user hereafter

-Once you are in the terminal after successful login, as below



```
test@vultr: ~  
login as: test  
test@45.63.115.16's password:  
Welcome to Ubuntu 16.04.2 LTS (GNU/Linux 4.4.0-87-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
113 packages can be updated.  
47 updates are security updates.  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
test@vultr:~$
```

-Type the following lines step by step, hit ENTER after each line

```
wget
```

```
https://github.com/philscurrency/philscurrency/releases/download/v1.2/philscurrency-1.0.0-linux64.tar.gz
```

```
tar -zxvf philscurrency-1.0.0-linux64.tar.gz
```

```
rm -f philscurrency-1.0.0-linux64.tar.gz
```

```
mv philscurrency-1.0.0 phils
```

```
chmod +x ~/phils/bin/philscurrencyd
```

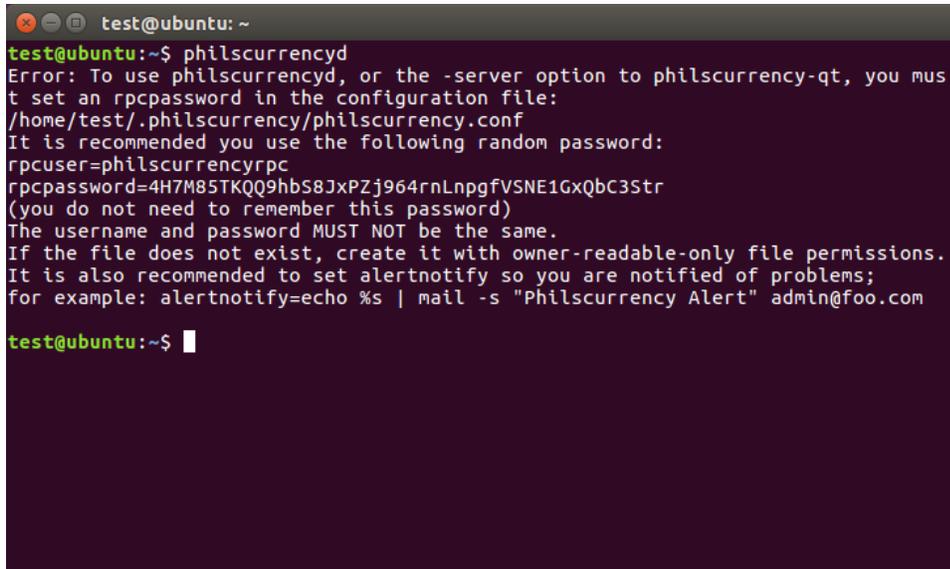
***chmod +x ~/phils/bin/philscurrency-cli***

***sudo cp ~/phils/bin/philscurrencyd /usr/local/bin***

***sudo cp ~/phils/bin/philscurrency-cli /usr/local/bin***

***philscurrencyd***

-You will see a prompt to create configuration file as below



```
test@ubuntu: ~  
test@ubuntu:~$ philscurrencyd  
Error: To use philscurrencyd, or the -server option to philscurrency-qt, you must set an rpcpassword in the configuration file:  
/home/test/.philscurrency/philscurrency.conf  
It is recommended you use the following random password:  
rpcuser=philscurrencyrpc  
rpcpassword=4H7M85TKQQ9hbs8JxPZj964rnLnpgfVSNE1GxQbc3Str  
(you do not need to remember this password)  
The username and password MUST NOT be the same.  
If the file does not exist, create it with owner-readable-only file permissions.  
It is also recommended to set alertnotify so you are notified of problems;  
for example: alertnotify=echo %s | mail -s "Philscurrency Alert" admin@foo.com  
test@ubuntu:~$
```

-Type the following lines step by step, hit ENTER after each line

***cd .philscurrency/***

***cat >philscurrency.conf***

```
test@ubuntu: ~/.philscurrency
test@ubuntu:~$ philscurrencyd
Error: To use philscurrencyd, or the -server option to philscurrency-qt, you must
set an rpcpassword in the configuration file:
/home/test/.philscurrency/philscurrency.conf
It is recommended you use the following random password:
rpcuser=philscurrencyrpc
rpcpassword=4H7M85TKQQ9hbS8JxPZj964rnLnpgfVSNE1GxQbC3Str
(you do not need to remember this password)
The username and password MUST NOT be the same.
If the file does not exist, create it with owner-readable-only file permissions.
It is also recommended to set alertnotify so you are notified of problems;
for example: alertnotify=echo %s | mail -s "Philscurrency Alert" admin@foo.com

test@ubuntu:~$ cd .philscurrency/
test@ubuntu:~/.philscurrency$ cat >philscurrency.conf
|
```

Paste these details

***rpcuser=<yourusername>***

***rpcpassword=<yourpassword>***

***rpcallowip=127.0.0.1***

***rpcport=36002***

***listen=1***

***server=1***

***daemon=1***

***addnode=52.14.182.71:36003***

***addnode=13.59.107.218:36003***

***addnode=52.14.113.155:36003***

***addnode=18.220.221.252:36003***

Replace username and password of your choice, it will look like below

e.g.

***rpcuser=philuser***

***rpcpassword=philpassword***

```
test@ubuntu: ~/.philscurrency
test@ubuntu:~/.philscurrency$ cat >philscurrency.conf
rpcuser=philuser
rpcpassword=philpassword
rpcallowip=127.0.0.1
rpcport=36002
listen=1
server=1
daemon=1
addnode=52.14.182.71:36003
addnode=13.59.107.218:36003
addnode=52.14.113.155:36003
addnode=18.220.221.252:36003
```

Hit CTRL + D

-Type the following lines step by step, hit ENTER after each line

***cd***

***philscurrencyd***

```
test@ubuntu: ~
test@ubuntu:~/.philscurrency$ cd
test@ubuntu:~$ philscurrencyd
Philscurrency server starting
test@ubuntu:~$
```

***philscurrency-cli getinfo***

```
test@ubuntu: ~
test@ubuntu:~/.philscurrency$ cd
test@ubuntu:~$ philscurrencyd
Philscurrency server starting
test@ubuntu:~$ philscurrency-cli getinfo
{
  "version" : 1000000,
  "protocolversion" : 70003,
  "walletversion" : 61000,
  "balance" : 0.00000000,
  "darksend_balance" : 0.00000000,
  "blocks" : 544,
  "timeoffset" : 0,
  "connections" : 1,
  "proxy" : "",
  "difficulty" : 0.00043260,
  "testnet" : false,
  "keypoololdest" : 1518004685,
  "keypoolsize" : 1001,
  "paytxfee" : 0.00000000,
  "relayfee" : 0.00010000,
  "errors" : ""
}
test@ubuntu:~$
```

-Wait a few minutes till you see blocks completely sync, you can check on <http://explorer.philscurrency.org:3001/> to make sure your VPS wallet block count is same as the block count on explorer

-Type the following lines step by step, hit ENTER after each line

***philscurrency-cli getnewaddress***

***philscurrency-cli masternode genkey***

```
test@ubuntu: ~
test@ubuntu:~$ philscurrency-cli getnewaddress
PfNuZHHmpXqavn2KgnReeNcghzTGSUscSd
test@ubuntu:~$ philscurrency-cli masternode genkey
4wPdHDR6dapgK8qBgJgNmktUhgk41oYBBjhQDdpjq3tjtNDRqX
test@ubuntu:~$
```

-The above generated address is where you send 12000 PHILs (exactly 12000, not more not less, I prefer using sending with zero transaction)

-Wait for 15 confirmations for the transaction

-The above generated key is your master-node private key, make a note of it in a notepad

-Type the following and hit ENTER

***philscurrency-cli masternode outputs***

-You will get an answer similar to below

```
{  
"06e38868bb8f9958e34d5155437d009b72dff33fc28874c87fd42e51c0f74fdb" :  
"0",  
}
```

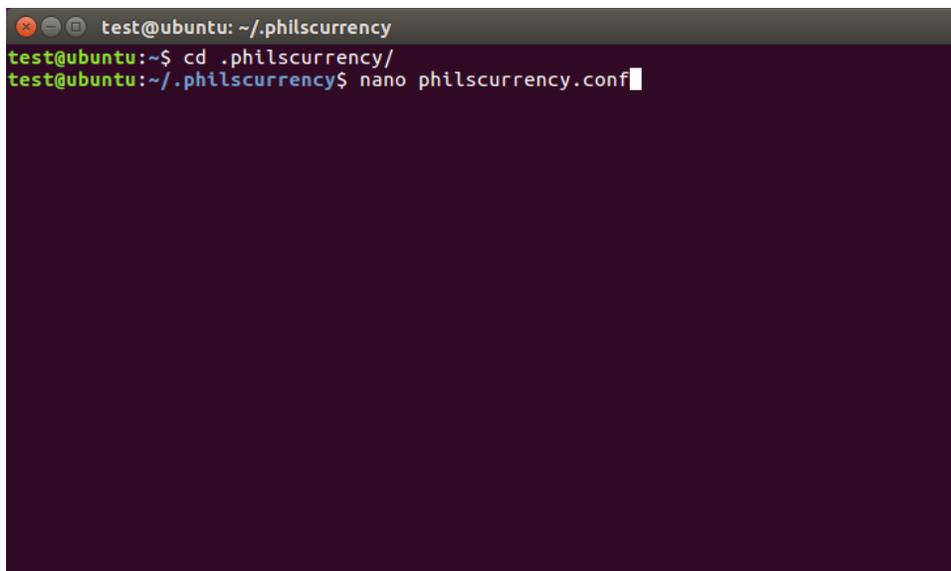
-First string is the transaction hash, second digit is your master-node index, it could be either 0 or 1, it is 0 in this case

-Now we need to edit configuration files

-Type the following lines step by step, hit ENTER after each line

***cd .philscurrency***

***nano philscurrency.conf***



```
test@ubuntu: ~/.philscurrency  
test@ubuntu:~$ cd .philscurrency/  
test@ubuntu:~/.philscurrency$ nano philscurrency.conf
```

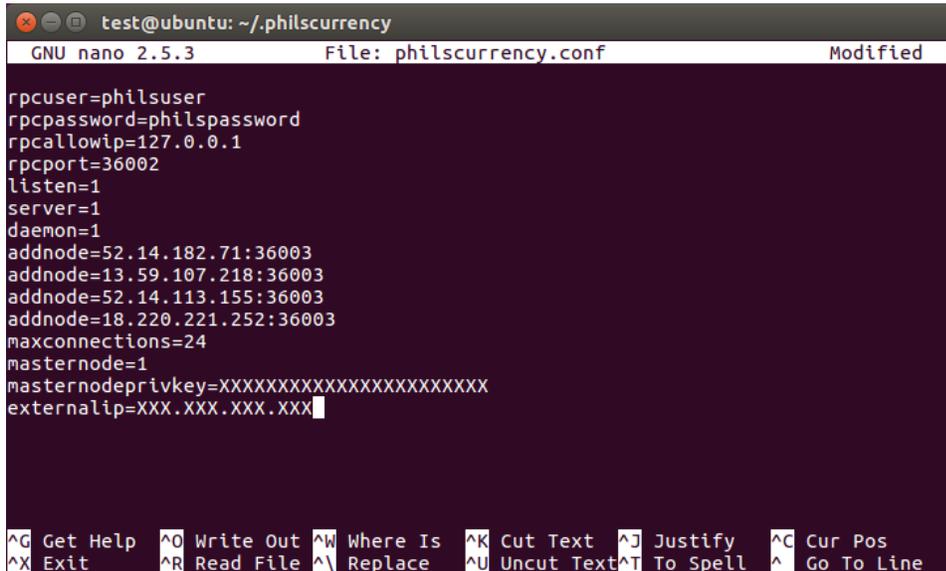
Paste these details

**maxconnections=24**

**masternode=1**

**masternodeprivkey=XXXXXXXXXXXXXXXXXXXXXXXXXXXX**

**externalip=XXX.XXX.XXX.XXX**



```
test@ubuntu: ~/.philscurrency
GNU nano 2.5.3 File: philscurrency.conf Modified
rpcuser=philsuser
rpcpassword=philspassword
rpcallowip=127.0.0.1
rpcport=36002
listen=1
server=1
daemon=1
addnode=52.14.182.71:36003
addnode=13.59.107.218:36003
addnode=52.14.113.155:36003
addnode=18.220.221.252:36003
maxconnections=24
masternode=1
masternodeprivkey=XXXXXXXXXXXXXXXXXXXXXXXXXXXX
externalip=XXX.XXX.XXX.XXX
^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
```

-Replace externalip with IP of your VPS

-Add your private key you noted in notepad in place of  
XXXXXXXXXXXXXXXXXXXXXXXXXXXX

Hit CTRL + X

SHIFT + Y

ENTER

**nano masternode.conf**

```
test@ubuntu: ~/.philscurrency
test@ubuntu:~$ cd .philscurrency/
test@ubuntu:~/.philscurrency$ nano philscurrency.conf
test@ubuntu:~/.philscurrency$ nano masternode.conf
```

Paste these details

**<name\_of\_MN> <externalip:36003> <masternode\_priv\_key>  
<transaction\_hash> <index>**

e.g.

**MN1 31.14.135.27:36003 Ppkqbr7sr6Si4fdsfssjjapuFzAXwETCrpPJubnrmU6aKzh  
06e38868bb8f9958e34d5155437d009b72dff33fc28874c87fd42e51c0f74fdb 0**

Hit CTRL + X

SHIFT + Y

ENTER

```
test@ubuntu: ~/.philscurrency
GNU nano 2.5.3 File: masternode.conf Modified
MN1 31.14.135.27:36003 Ppkqbr7sr6Si4fdsfssjjapuFzAXwETCrpPJubnrmU6aKzh 06e38868bb8f9958e34d5155437d009b72dff33fc28874c87fd42e51c0f74fdb 0

^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos ^Y Prev Page ^L First Line ^= WhereIs Next
^X Exit ^R Read File ^M Replace ^U Uncut Text ^I To Spell ^_ Go To Line ^V Next Page ^H Last Line ^- To Bracket
```

-Now lets restart the wallet

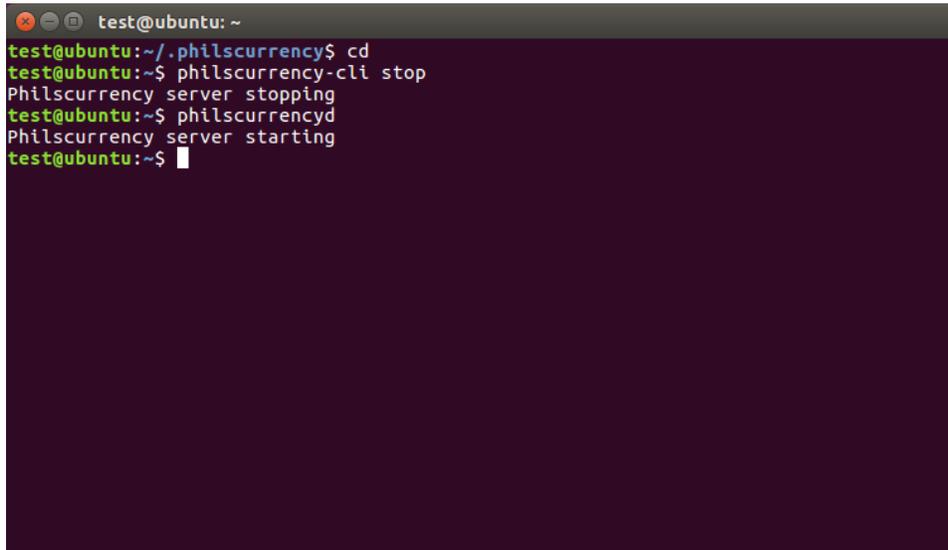
-Type the following lines step by step, hit ENTER after each line

**cd**

***philscurrency-cli stop***

-wait few seconds for the wallet to shutdown completely

***philscurrencyd***



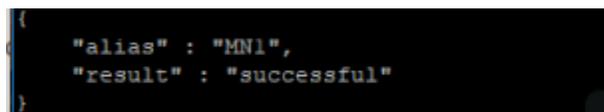
```
test@ubuntu: ~
test@ubuntu:~/.philscurrency$ cd
test@ubuntu:~$ philscurrency-cli stop
Philscurrency server stopping
test@ubuntu:~$ philscurrencyd
Philscurrency server starting
test@ubuntu:~$
```

-Now let's start masternode

-Type the following line, hit ENTER

***philscurrency-cli masternode start-alias MN1***

-You should see your result like below



```
{
  "alias" : "MN1",
  "result" : "successful"
}
```

-Let's do a final check about master-node activation, type the below line and hit ENTER

***philscurrency-cli masternode status***

-The result should show active status

-That's it, your master-node is up and running

HAPPY MASTERNODING

#FYI: HELPFUL commands in the VPS:

philcurrencyd #starts wallet/masternode

philcurrency-cli stop #stops

philcurrency-cli masternode status #you want a status of successfully started

philcurrency-cli masternode debug

philcurrency-cli masternode list #shows all nodes

philcurrency-cli getinfo #show blocks, etc.

philcurrency-cli help #shows every possible command

philcurrency-cli masternode list | grep your\_tx\_id