



QUANTISNET
Security | Privacy
Transparency | Governance

QuantisNet Masternode setup guide V1.1
forked from PIVX
January 2019

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Abstract

This is the guide for cold masternode setup. This means involves two wallets. One wallet will be installed remotely on your VPS server. They don't hold any of your coins. The second wallet will be installed on your local PC. They hold all your coins.

Both the wallets that is your remote VPS wallet and your local PC wallet will have a full copy of the blockchain. However your local wallet is the one that is safely holding the collateral amount and so you have full control of your private keys. Now using local controller wallet you'll create a secondary private key which is also called as masternode private key. This masternode private key doesn't give access to your coins but instead it acts as a communication. This key is the proof that you own the funds and it tells the cold online wallet to act on behalf of the hot wallet.

Now using local controller wallet you initiate communication and once the masternode is enabled you can safely close your local QT wallet and take it offline. Only your VPS wallet that has no coins will stay online 24/7.

1. Requirements

5001 QUAN (5000 collateral + 1 to cover any TX fees)

You can buy coins and withdraw them on some exchanges.

VPS server (Ubuntu 16.04)

You can rent it from Vultr, Digital Ocean and so on.

SSH client (e.g. putty [Windows only] <https://www.putty.org/>)

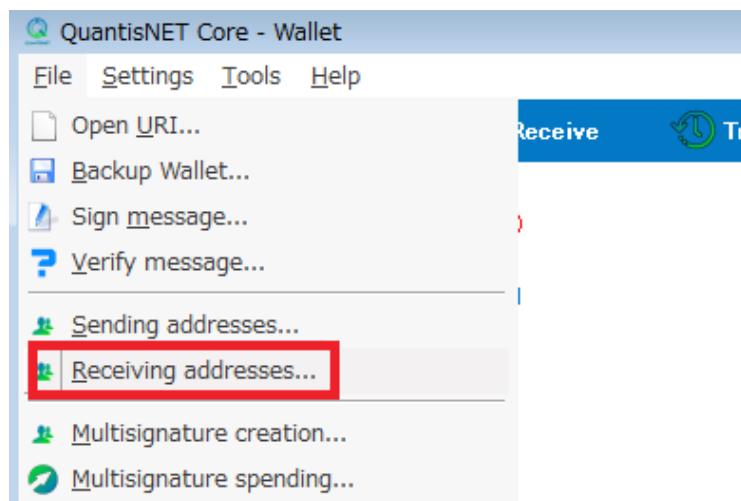
This is necessary for you to operate the server from the local PC.

2. Setup local PC wallet part 1 of 2

I. Download latest windows wallet from official release: <http://45.76.62.99/files/quantisnet-qt.exe>

II. Run the wallet

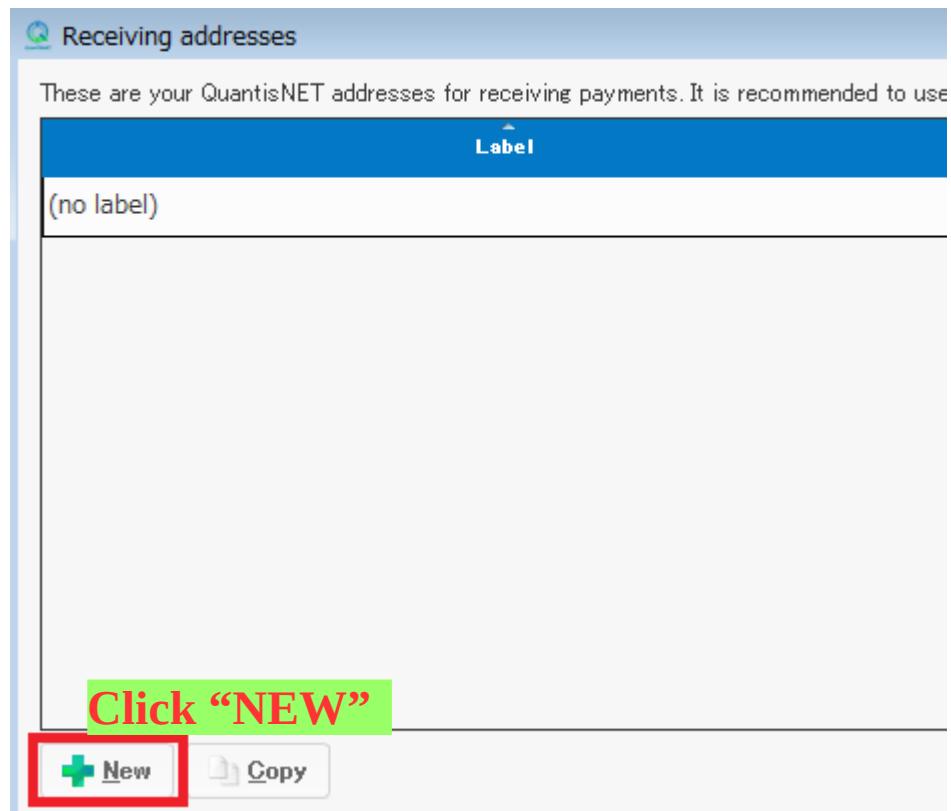
III. Wait for the wallet to synchronize





IV. Click “File” → “Receiving addresses...”

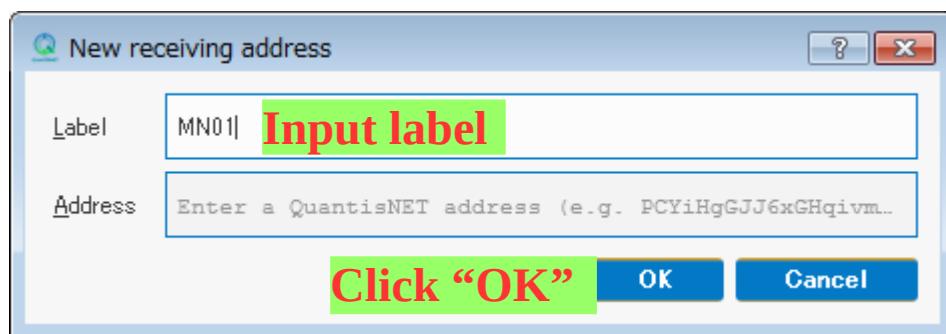
V. Click “New” and enter label name (e.g. MN01) and click OK



Click “NEW”

New

Copy



Click “OK”

OK

Cancel



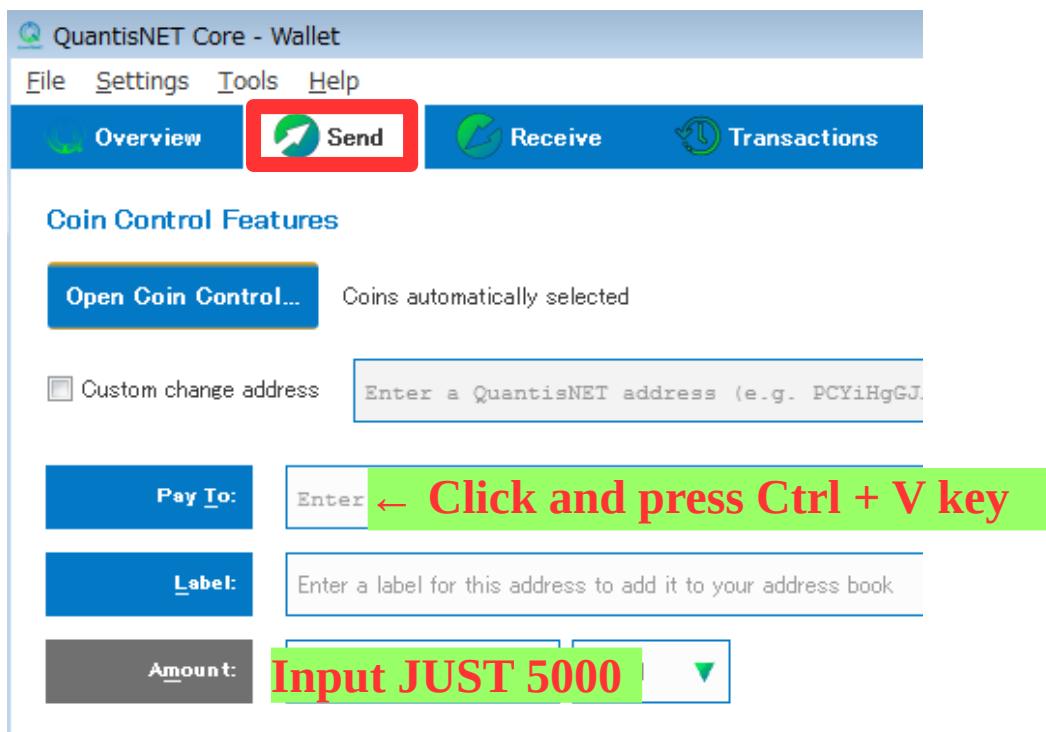
VI. Select the created address and click “Copy” then click “Close”



VII. Click “Send” tab and press Ctrl + V key

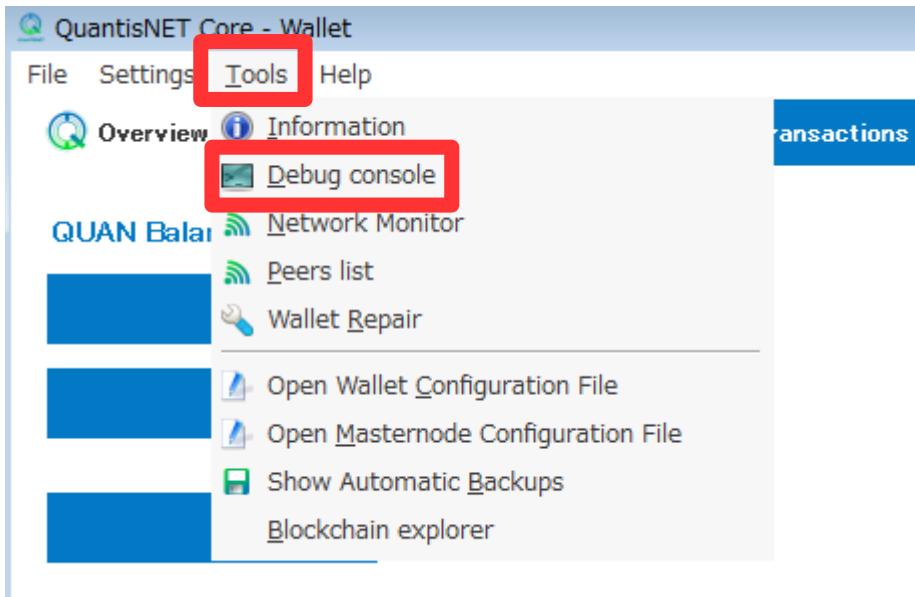
VIII. Then Input 5000 on “Amount” and click “Send”

Notice: Ensure that must be sent exactly 5000 QUAN and do it in a single transaction.





IX. Click “Tools” → “Debug console” then enter “masternode genkey”



The screenshot shows the "Tools window" with the "Console" tab selected. The console output is as follows:

```
22:35:00  ↳ Welcome to the QuantisNET RPC console.  
           Use up and down arrows to navigate history, and Ctrl-L to clear screen.  
           Type help for an overview of available commands.  
16:40:55  ↳ masternode genkey  
16:40:55  ↳ 3[REDACTED] private key
```

The command "masternode genkey" was entered at 16:40:55. The resulting private key is displayed in the console, with the first three characters (3) and the rest of the key (redacted) shown in a black box.



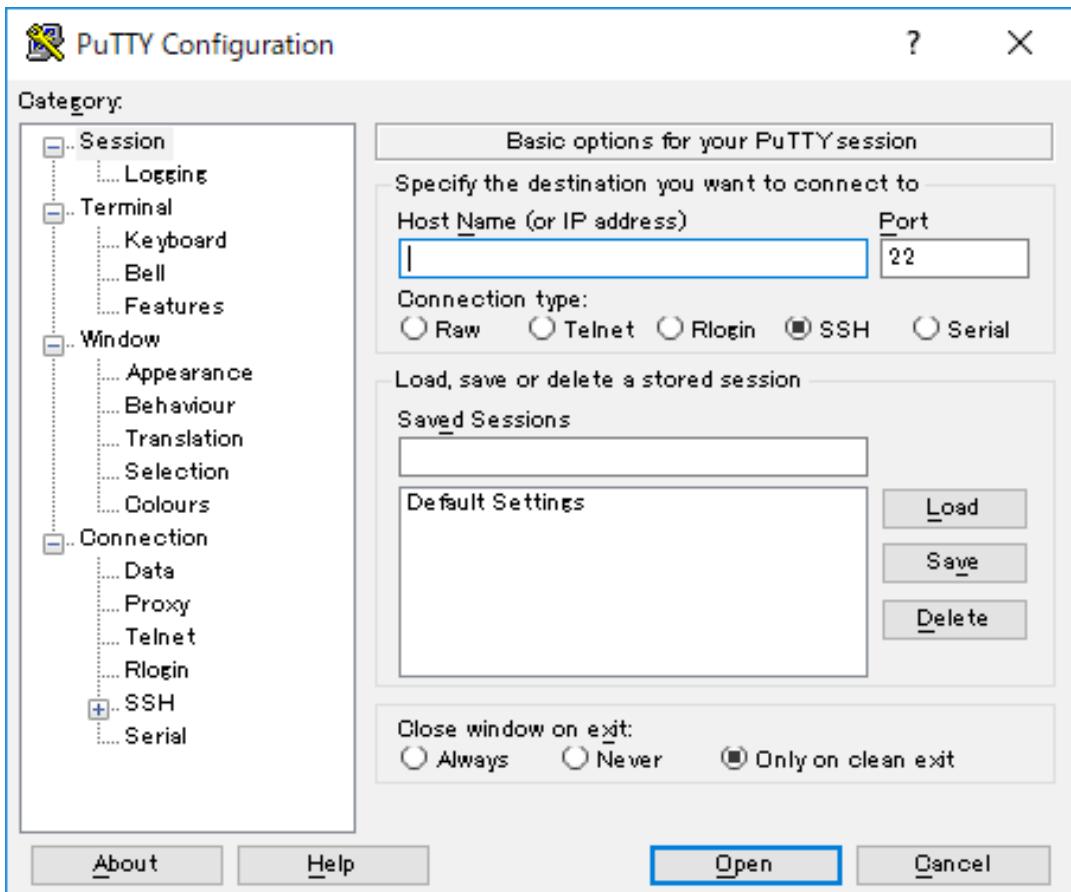
X. Write down the key(or leave the window as it is)

If you use MAC, go to step 4

3. Setup putty

putty is here (Windows only)

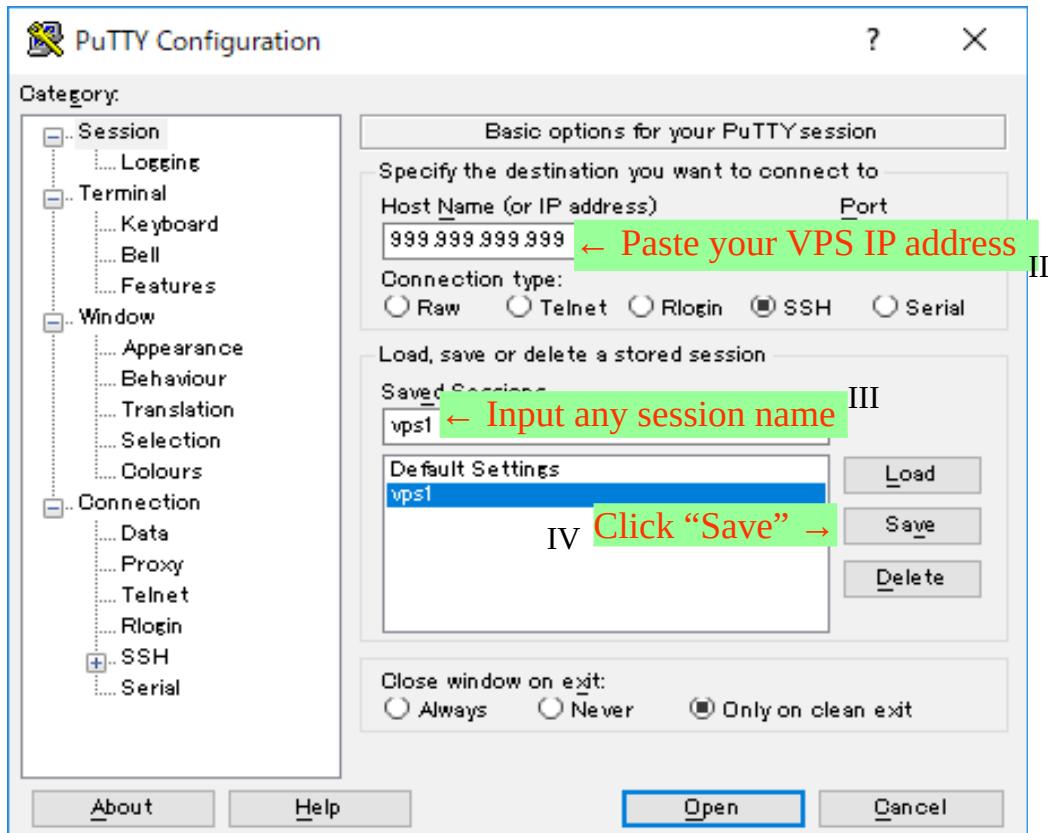
I. Open putty.exe



II. Paste your VPS IP address from your VPS management screen

III. Input any session name

IV. Click “Save”

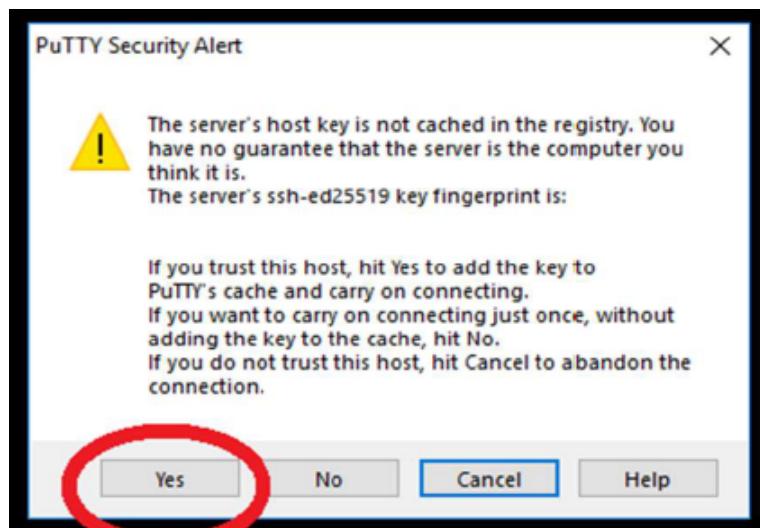


4.Login to VPS

I. Double click the session name and login to your VPS as “root”

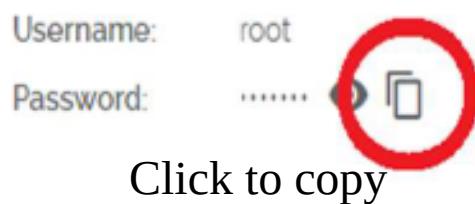
If you use MAC, use “Terminal” instead of putty (Input: ssh root@your vps ip)

II. If you got a security alert message, click “Yes”



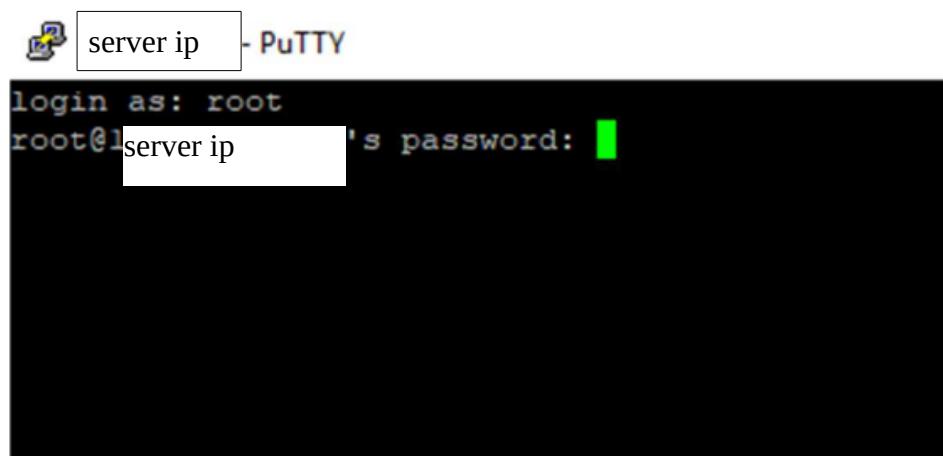


III. In your VPS management screen, copy the server's password



IV. In putty, paste the password

Notice: To paste in putty, right click ONCE (nothing will appear) and press ENTER key



5. Running setup script

I. Paste following into putty with right click to download

```
cd ~ && wget -q https://raw.githubusercontent.com/QuantisDev/QuantisNet-Fork-New-Chain/master/quan-mn.sh
```

II. Input: chmod +x quan-mn.sh

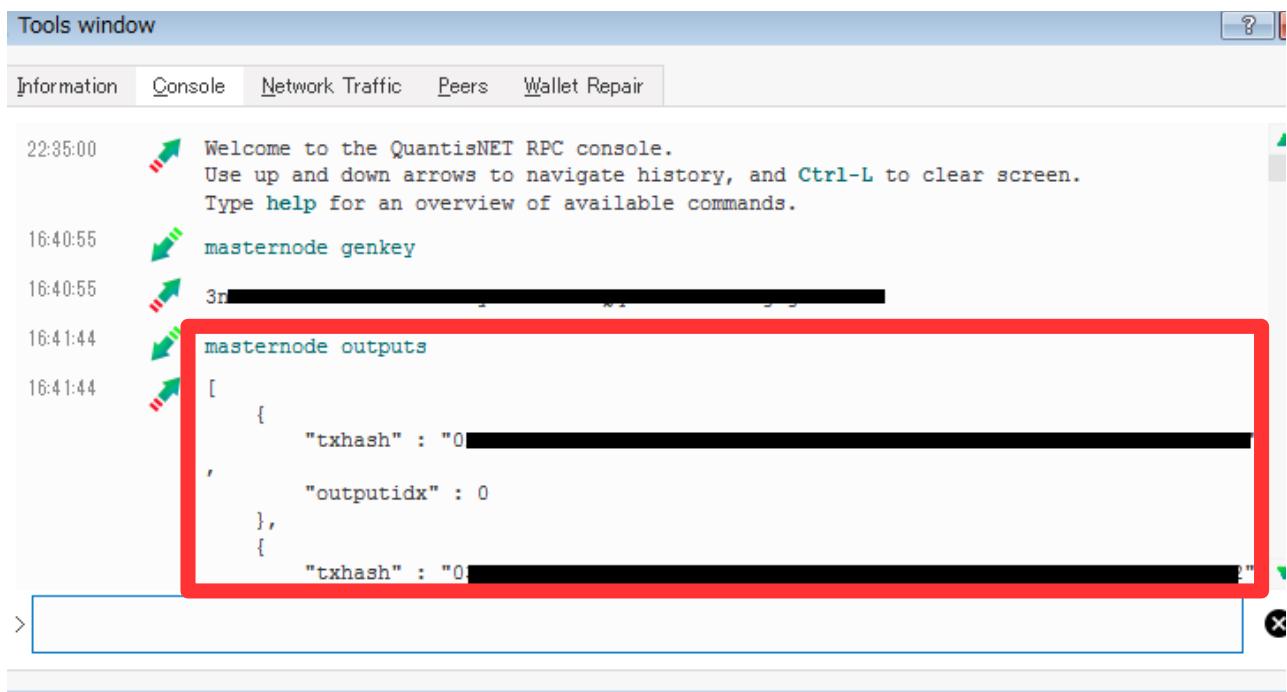
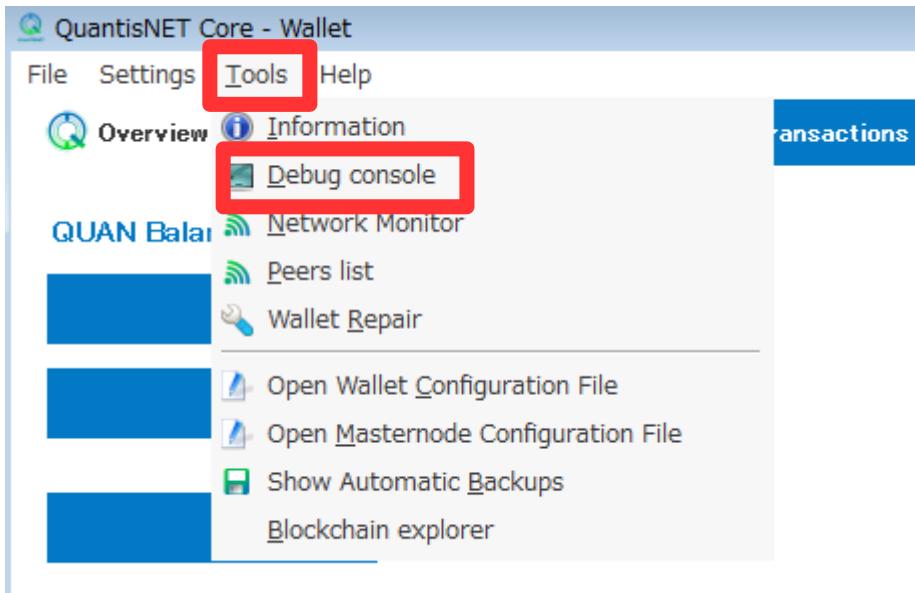
III. Run the script: ./quan-mn.sh

IV. Then follow instructions presented on the screen

```
root@Masternode08:~# cd ~ && wget -q https://raw.githubusercontent.com/QuantisDev/QuantisNet-Fork-New-Chain/master/quan-mn.sh
root@Masternode08:~# chmod +x quan-mn.sh
root@Masternode08:~# ./quan-mn.sh
```

6. Setup local PC wallet part 2 of 2

- I. Back to the local wallet
- II. After 1 confirmation, type masternode outputs on “Debug console”



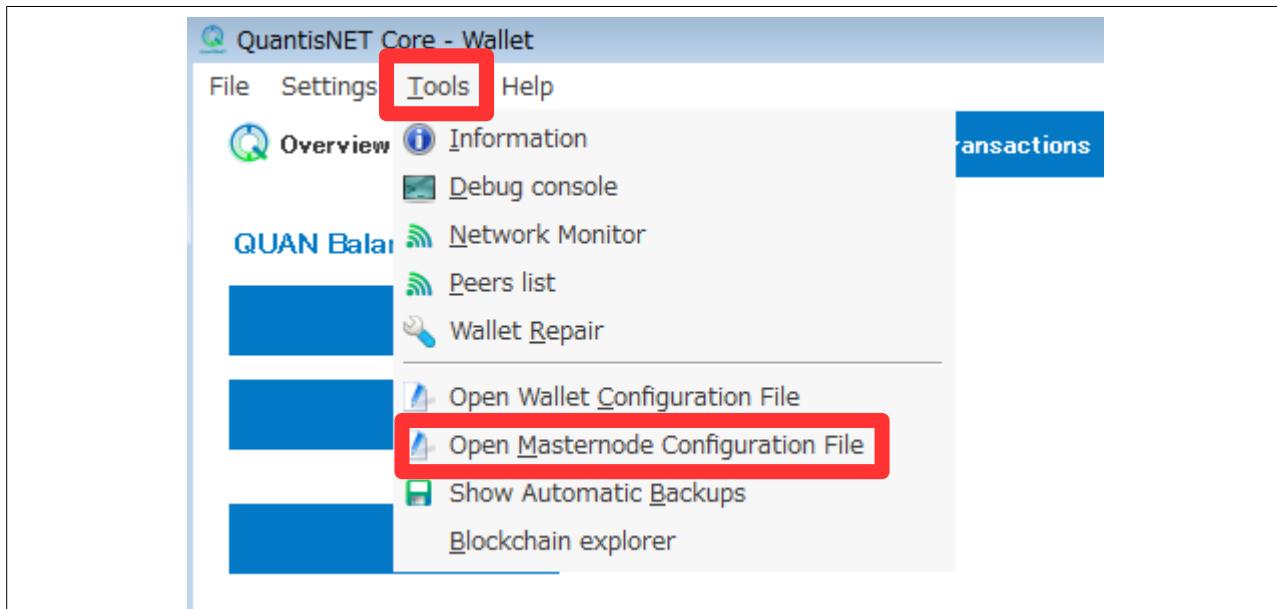
The screenshot shows the 'Tools window' with the 'Console' tab selected. The console output displays the following text:

```
22:35:00    ↗ Welcome to the QuantisNET RPC console.  
              Use up and down arrows to navigate history, and Ctrl-L to clear screen.  
              Type help for an overview of available commands.  
16:40:55    ↗ masternode genkey  
16:40:55    3n [REDACTED]  
16:41:44    ↗ masternode outputs  
[  
  {  
    "txhash" : "0 [REDACTED]",  
    "outputidx" : 0  
  },  
  {  
    "txhash" : "0 [REDACTED]"  
  }]
```

A red box highlights the 'masternode outputs' section of the console output.



III. Click “Tools” → “Open Masternode Configuration File”



IV. Edit the file

label vpsIP:port masternodekey txhash outputidx

(e.g. MN01 123.456.789.0:7771 1234567890asdfghjk d0a362e103f7111489103bb99ea7f08b 1)

Notice: masternodekey(private key), collateraltx and index are pasted from Debug console

You need to set certain txhash and outputidx

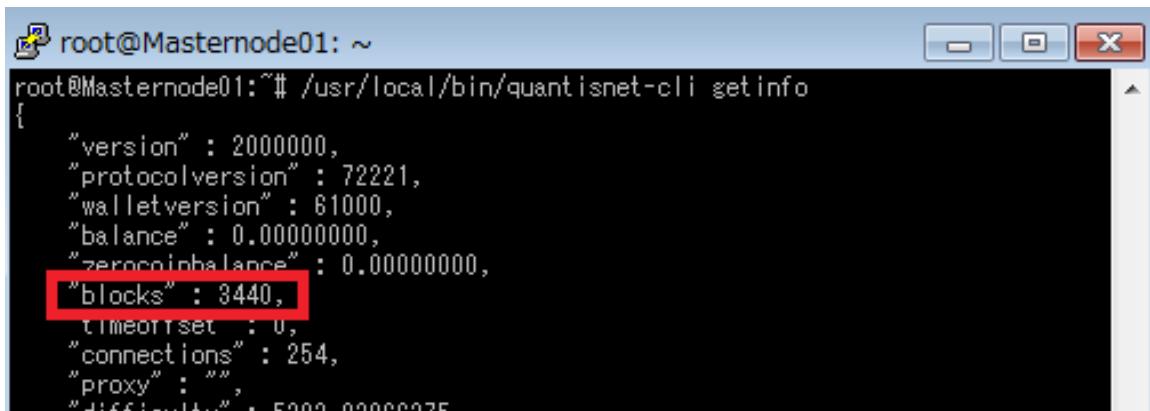
	I0	I1	I2	I3	I4	I5	I6	I7	I8	I9	I10	I11	I12	I13	I14
1	MN01	:7771	3oI						j 0					70 1 ↴	
2	MN02	:7771	3oI						85 :					b40 0 ↴	
3	MN03	:7771	3o3						80:					f 0 ↴	
4	MN04	:7771	3o9						8f:					c 0 ↴	
5	MN05	:7771	3n0						j c:					d9 0 ↴	
6	MN06	:7771	3n0						K d:					56 1 ↴	
7	MN07	:7771	3n0						n 3:					c4 1 ↴	
8															

V. Save & close masternode.conf and the wallet.

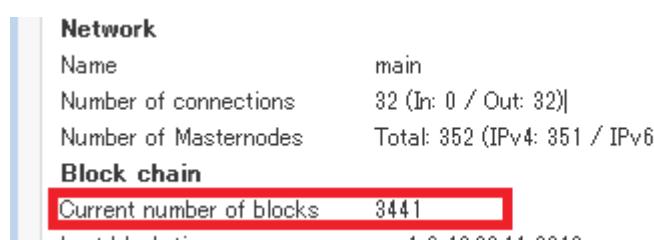
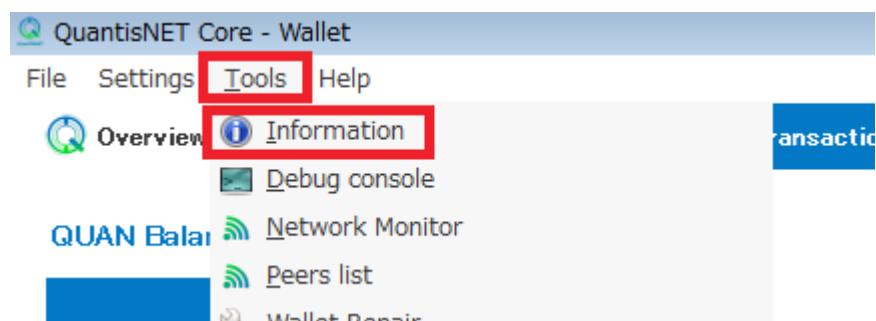
7.Starting masternode

- I. Start and unlock (if you set passphrases) the local wallet
- II. Check if both the local and VPS wallets are fully synced
You can check current block with [block explorer](#)

Input: /usr/local/bin/quantisnet-cli getinfo



```
root@Masternode01: ~
root@Masternode01:~# /usr/local/bin/quantisnet-cli getinfo
{
    "version" : 2000000,
    "protocolversion" : 72221,
    "walletversion" : 61000,
    "balance" : 0.00000000,
    "zerocoinhalance" : 0.00000000,
    "blocks" : 3440,
    "timeoffset" : 0,
    "connections" : 254,
    "proxy" : "",
    "difficulty" : 5292.020000275
```



Network

Name	main
Number of connections	32 (In: 0 / Out: 32)
Number of Masternodes	Total: 352 (IPv4: 351 / IPv6: 0 / Tor: 0 / Unknown: 1)

Block chain

Current number of blocks	3441
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III. Go to “Masternodes” tab

IV. Go to My “Masternodes”

QuantisNET Core - Wallet

File Settings Tools Help

Overview Send Receive Transactions Privacy Masternodes

My Masternodes All Masternodes

Note: Status of your masternodes in local wallet can potentially be slightly incorrect.
Always wait for wallet to sync additional data and then double check from another node
if your node should be running but you still see "MISSING" in "Status" field.

Alias	Address	Protocol	Status	Active	Last Seen (UTC)	
MN01	10.0.0.1:7771	72221	ENABLED	2d 10h:43m:11s	2019-01-06 20:10	q
MN02	10.0.0.2:7771	72221	ENABLED	2d 10h:36m:42s	2019-01-06 20:11	q
MN03	37.187.139.101:7771	72221	ENABLED	2d 10h:48m:24s	2019-01-06 20:10	q
MN04	10.0.0.3:7771	72221	ENABLED	2d 08h:30m:16s	2019-01-06 20:05	q
MN05	10.0.0.4:7771	72221	ENABLED	2d 03h:57m:06s	2019-01-06 20:05	q
MN06	10.0.0.5:7771	72221	ENABLED	2d 03h:55m:53s	2019-01-06 20:04	q
MN07	10.0.0.6:7771	72221	ENABLED	2d 03h:57m:29s	2019-01-06 20:06	q
MN08	10.0.0.7:7771	-1	MISSING	00m:00s	1970-01-01 00:00	



V. Select Alias what you made at step2

VI. Click “Start alias”

QuantisNET Core - Wallet

File Settings Tools Help

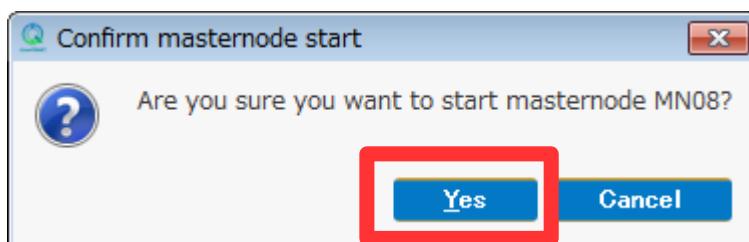
Overview Send Receive Transactions Privacy Masternodes

Note: Status of your masternodes in local wallet can potentially be slightly incorrect.
Always wait for wallet to sync additional data and then double check from another node
if your node should be running but you still see "MISSING" in "Status" field.

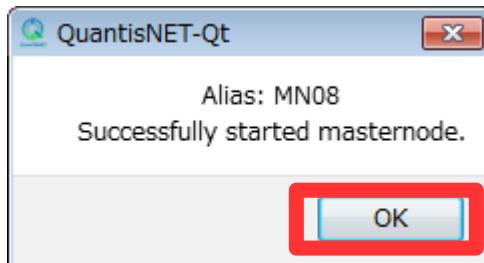
Alias	Address	Protocol	Status	Active	Last Seen (UTC)	
MN01	:7771	72221	ENABLED	2d 10h:43m:11s	2019-01-06 20:10	
MN02	:7771	72221	ENABLED	2d 10h:36m:42s	2019-01-06 20:11	
MN03	:7771	72221	ENABLED	2d 10h:48m:24s	2019-01-06 20:10	
MN04	:7771	72221	ENABLED	2d 09h:00m:20s	2019-01-06 20:35	
MN05	:7771	72221	ENABLED	2d 04h:27m:08s	2019-01-06 20:35	
MN06	:7771	72221	ENABLED	2d 04h:25m:55s	2019-01-06 20:34	
MN07	:7771	72221	ENABLED	2d 04h:27m:32s	2019-01-06 20:36	
MN08	:7771	-1	MISSING	00m:00s	1970-01-01 00:00	

Start alias **Start all** **Start MISSING** **Update status** Status will be updated automatically in (sec):

Click “Yes”



Click “OK”





8.Checking masternode status

After 10 – 30 minutes, you can confirm that your masternode active time is reflected.

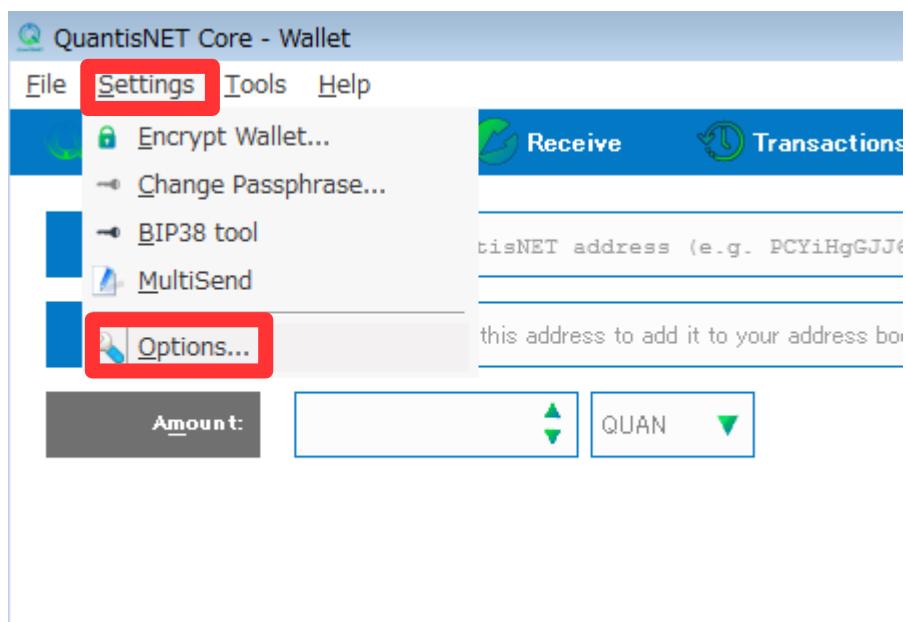
MN08	:7771	72221	ENABLED	10m:10s	2019-01-06 20:49	qS
------	-------	-------	---------	---------	------------------	----

Setup Complete! You may close PuTTY, Terminal, debug window of the wallet

Notice: If you have not enough coins and want to get pos rewards, remove “staking=0” from quantisnet.conf and keep running the wallet

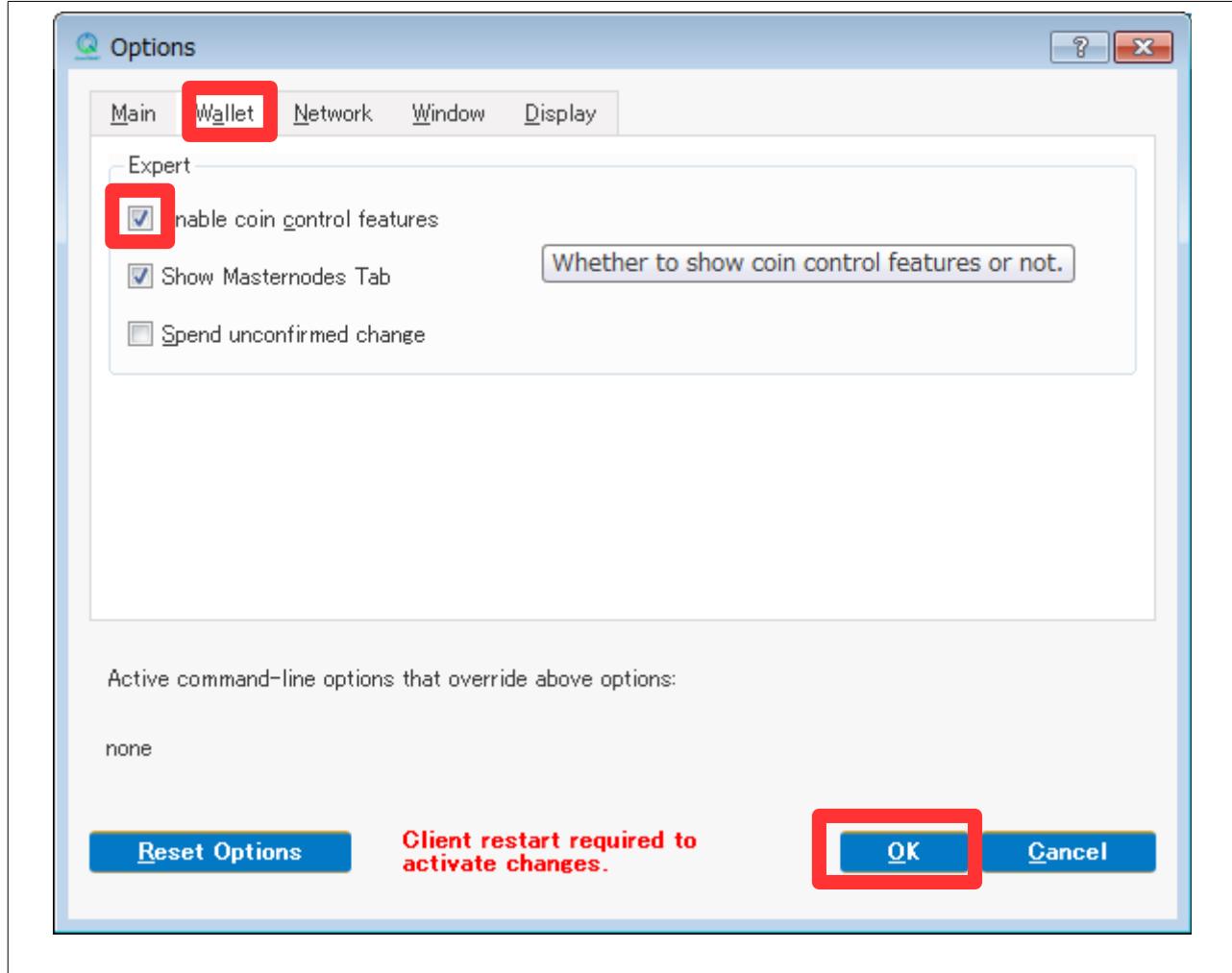
9.How to manage balances

- I. Use coin control feature
- II. Click “Settings” → “Options...”



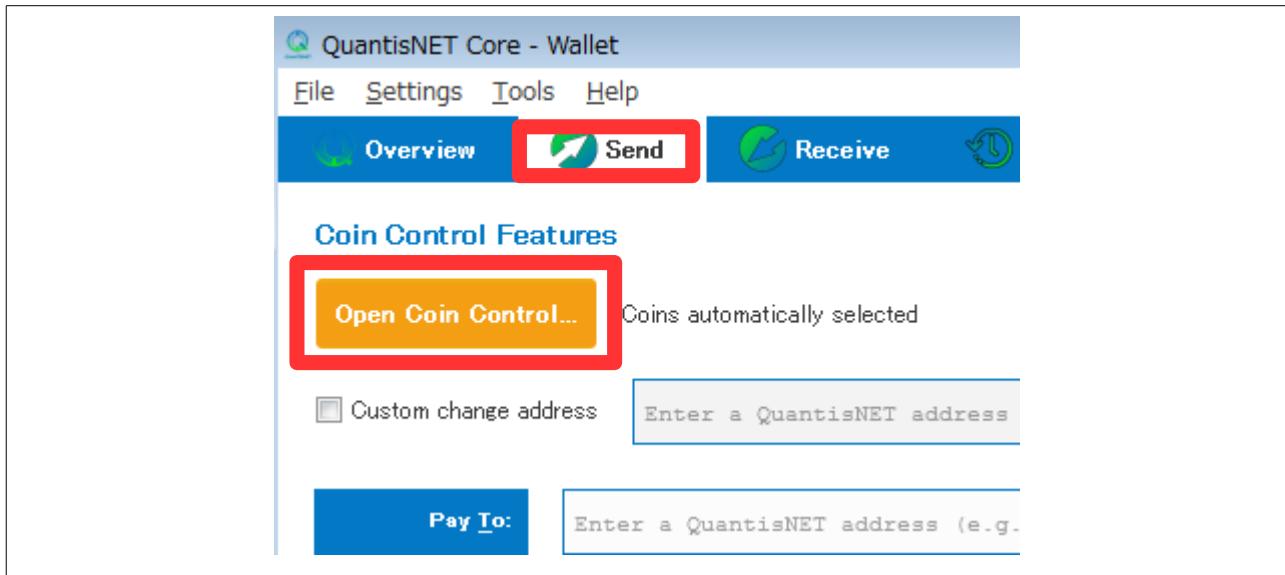


III. Open “Wallet” tab and enable “Enable coin control features” then click OK





IV. Click “Send” tab and “Open Coin Control...”



V. Then you can select balances with left side check boxes

10. References

Hot Wallet Node vs Cold Masternodes – What you need to know

<https://coinguides.org/hot-wallet-cold-masternodes/>

11. Special thanks To:

Sizzlorr (setup guide: <https://quantisnetworkforum.com/viewtopic.php?f=9&t=13>)



12. Official links

Website: <https://quantisnetwork.org/>

Explorer: <https://chain.quantisnetwork.org/>

TradeOgre: <https://tradeogre.com/exchange/BTC-QUAN>

Crex24: Need to be swapped.

CoinMarketcap: <https://coinmarketcap.com/currencies/quantis-network/>

Investing.com Chart: <https://www.investing.com/crypto/quantis/chart>

Masternodecap.com: <https://masternodecap.com/coins/QUAN>

Nodecheck.io: <https://nodecheck.io/currency/QUAN>

LiveCoinWatch: <https://www.livecoinwatch.com/price/Quantis-QUAN>

Masternodes.pro: <https://masternodes.pro/stats/quan/statistics>

Coinlib <https://coinlib.io/coin/QUAN/Quantis>

CoinGecko <https://www.coingecko.com/en/coins/quantis>

Twitter: <https://twitter.com/QuantisNetwork>

Reddit: <https://www.reddit.com/r/Quantis/>

Discord: <https://discord.gg/MWxfyKg>

Telegram: <http://t.me/quantis>

Quantis Network Forum: <https://quantisnetworkforum.com/>

YouTube: <https://www.youtube.com/channel/UCfLDGUAH6PcQoxjPWShIIEQ/featured>

FaceBook: <https://www.facebook.com/Quantis-107598363410217/>

BitcoinTalk: <https://bitcointalk.org/index.php?topic=3354132.0>

Medium: <https://medium.com/@QuantisNetwork>



13. Appendix (Manually VPS setup)

Paste followings into putty (one line at a time)
(If you login as root, you don't need type 'sudo')

```
sudo apt-get update && apt-get upgrade  
sudo apt-get dist-upgrade  
sudo apt-get install libzmq3-dev libminicppc-dev libssl-dev libevent-dev -y  
sudo apt-get install build-essential libtool autotools-dev automake pkg-config -y  
sudo apt-get install libssl-dev libevent-dev bsdmainutils software-properties-common -y  
sudo apt-get install libboost-all-dev -y  
sudo add-apt-repository ppa:bitcoin/bitcoin  
sudo apt-get update  
sudo apt-get install libdb4.8-dev libdb4.8++-dev -y  
sudo apt-get install libgmp3-dev  
  
sudo ufw limit ssh/tcp  
sudo ufw allow 7771/tcp  
sudo ufw enable
```