



How to install a Single Masternode or Multiple Masternodes on a single VPS

Before we can install multiple masternodes on a single VPS we need to ensure the VPS we have selected is fit for purpose. I have seen many times on Discord channel investors trying to install multiple masternodes on servers that are way too small and eventually they run into problems as they run out of disk space.

As the blockchain progresses over time and more data is added to the chain the blocks become very much larger.

My preference is a server from Contabo, Linux server running Ubuntu 16.04 for running multiple masternodes.

Click links below to compare

<https://www.contabo.com>

Vultr also provide a good service but i have found that i can only run maximum of 2-3 masternodes per server for roughly the same cost as a much larger server from Contabo.

<https://www.vultr.com>

I use the Contabo *VPS M SSD*

8.99 EUR / month*

VPS series: 10

VPS M SSD
8.99 EUR / month*

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```
/$ df -h
Filesystem      Size  Used Avail Use% Mounted on
udev            7.9G   0    7.9G   0% /dev
tmpfs           1.6G  157M   1.5G  10% /run
/dev/sda2       393G  145G  229G   39% /
tmpfs           7.9G   0    7.9G   0% /dev/shm
tmpfs           5.0M   0    5.0M   0% /run/lock
tmpfs           7.9G   0    7.9G   0% /sys/fs/cgroup
/dev/sda1       922M  145M   714M  17% /boot
tmpfs           1.6G   0    1.6G   0% /run/user/0
```

As can be seen I have used 39% disk space running over 40MN, I'm not an expert but this setup works for me.

Once you have rented your server the first thing you are going to need to do is set up your initial XChainZ Masternode.

XChainZ Masternode Setup Guide:

Shell script to install a X CZ Masternode on a Linux server running Ubuntu 16.04.

```
wget -q https://raw.githubusercontent.com/axanthics/XCZ-Masternode/master/xchainz_auto.sh
sudo chmod +x xchainz_auto.sh
./xchainz_auto.sh
```

or

```
wget -q https://raw.githubusercontent.com/axanthics/XCZ-
Masternode/master/XCZ_masternode.sh
sudo chmod +x XCZ_masternode.sh
./XCZ_masternode.sh
```

Please wait until the Node is fully synced with the X CZ blockchain. To check the status enter below command.

```
xchainz-cli getinfo
```

When the Node is fully synced, enter the command below to check masternode status.

```
xchainz-cli getmasternodestatus
```

If your Node is not syncing add the following nodes:

```
addnode=159.69.47.244:14815
```

```
addnode=5.181.48.139:14815
```

```
addnode=37.120.190.8:14815
```

```
addnode=116.203.206.24:14815
```

addnode=173.249.41.92:14815

addnode=207.180.233.149:14815

addnode=195.201.25.161:14815

addnode=195.201.25.161:14815

addnode=195.201.25.161:14815

addnode=195.201.25.161

addnode=88.198.119.136:14815

addnode=164.68.116.197:14815

addnode=45.77.227.153:14815

addnode=78.46.226.63:14815

addnode=91.194.90.15:14815

addnode=144.91.70.209:14815

addnode=118.27.30.70:14815

addnode=80.211.191.33:14815

addnode=45.32.194.84:14815

Use nano to open the xchainz.conf file

```
# cd
```

```
# nano .xchainz/xchainz.conf
```

Copy the masternodeprivkey value as you will need this later for the Privkey field in the desktop wallet's masternode.conf file.

exit the file (Ctrl-X)

Guide for UpdateXCZ_mn.sh:

```
wget -q https://raw.githubusercontent.com/axanthics/XCZ-Masternode/master/UpdateXCZ_mn.sh  
sudo chmod +x UpdateXCZ_mn.sh
```

```
./UpdateXCZ_mn.sh
```

Desktop Wallet

After the MN is up and running, you need to configure the desktop wallet accordingly. The steps are as follows:

1. Open the XChainZ Coin Desktop Wallet.
2. Go to RECEIVE and create a New Address: MN1
3. Send 1000 XChainZ to MN1.
4. Wait for 15 confirmations.
5. Go to Tools -> "Debug console - Console"
6. Type the following command: `getmasternodeoutputs`
7. Within the installed XChainZ application directory on your operating system, open the masternode.conf file (e.g., for mac: nano "Library/Application Support/XChainZ/masternode.conf")
8. Add the following entry:

```
Alias Address Privkey TxHash Output_index
```

```
Alias: MN1
```

```
Address: VPS_IP:PORT (XCZ port = 14815)
```

```
Privkey: Masternode Private Key from earlier
```

```
TxHash: First value from Step 6
```

```
Output index: Second value from Step 6
```

When you open the masternode.conf file there is an example of the line format required.

9. Save and close the file.
10. Go to Masternode Tab.
11. Click Update status to see your node. If it is not shown, close the wallet and start it again. Make sure the wallet is unlocked.

12. Open Debug Console and type:

```
startmasternode "alias" "0" "MN1"
```

Usage:

```
xchainz-cli getinfo
```

```
xchainz-cli mnsync status
```

```
xchainz-cli masternode status
```

Also, if you want to check/start/stop XChainZ, run one of the following commands as root:

Ubuntu 16.04:

```
systemctl status xchainz #To check the service is running.
```

```
systemctl start xchainz #To start XChainZ service.
```

```
systemctl stop xchainz #To stop XChainZ service.
```

```
systemctl is-enabled xchainz #To check whether XChainZ service is enabled on boot or not.
```

Once you have a XChainZ masternode running then let's continue, without this the next steps will fail.

I am going to assume you have used WinSCP or PuTTY or similar to communicate with your server. Login to your server and follow the steps below.

1. First install the dupmn script (only needs to be done once):

```
curl -sL https://raw.githubusercontent.com/neo3587/dupmn/master/dupmn_install.sh | sudo -E bash -
```

2. Then install the coin profile

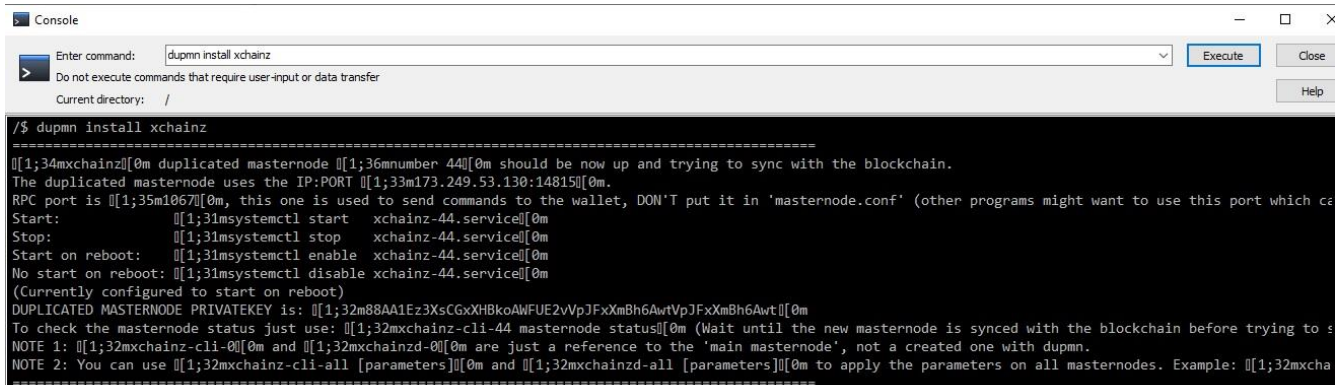
```
wget -q https://github.com/Dante-Dante-alt/dupmn/blob/master/xchainz.dmn
```

3. Now add the coin profile

```
dupmn profadd xchainz.dmn xchainz
```

- Let's create another node (Note that you MUST already have installed the xchainz node in the VPS, following official XChainZ Masternode Setup Guide):

`dupmn install xchainz`



```
Console
Enter command: dupmn install xchainz
Do not execute commands that require user-input or data transfer
Current directory: /

/$ dupmn install xchainz
=====
[[1;34mxchainz]] duplicated masternode [[1;36mnumber 44]] should be now up and trying to sync with the blockchain.
The duplicated masternode uses the IP:PORT [[1;33m173.249.53.130:148150]].
RPC port is [[1;35m1067]], this one is used to send commands to the wallet, DON'T put it in 'masternode.conf' (other programs might want to use this port which ca
Start: [[1;31msystemctl start xchainz-44.service]]
Stop: [[1;31msystemctl stop xchainz-44.service]]
Start on reboot: [[1;31msystemctl enable xchainz-44.service]]
No start on reboot: [[1;31msystemctl disable xchainz-44.service]]
(Currently configured to start on reboot)
DUPLICATED MASTERNODE PRIVATEKEY is: [[1;32m88AA1Ez3XsCGxXHBkoAMFUE2vVpJFxxM8h6AwtVpJFxxM8h6Awt]]
To check the masternode status just use: [[1;32mxchainz-cli-44 masternode status]] (Wait until the new masternode is synced with the blockchain before trying to s
NOTE 1: [[1;32mxchainz-cli-0]] and [[1;32mxchainzd-0]] are just a reference to the 'main masternode', not a created one with dupmn.
NOTE 2: You can use [[1;32mxchainz-cli-all [parameters]]] and [[1;32mxchainzd-all [parameters]]] to apply the parameters on all masternodes. Example: [[1;32mxcha
=====
```

- Every node will have its own private key, it will be shown after installing the new node, it can also be seen using the command

`dupmn list xchainz`

- Now you can manage every node with these commands (Note the numbers in the commands refer to the node number):

`xchainz-1 masternode status`

`xchainz-2 getblockcount`

`xchainz-3 getinfo`

`xchainz-cli-all masternode status`

-

To speed up the process of the node syncing

`dupmn bootstrap xchainz 10 11`

In this example bootstrap from node 10 to node 11

8. The private key from step 5 will need to put into the desktop wallet config

Alias Address Privkey TxHash Output_index

Example :

```
mn1 127.0.0.2:14815 93HaYBVUCYjEMeeH1Y4sBGLALQZE1Yc1K64xiqgX37tGBDQL8Xg 2bcd3c84c84f87eaa86e4e56834c92927a07f9e18718810b92e0d0324456a67c 0
mn2 127.0.0.2:14815 87hgyt769994tdgbeyu657575bbhg565yrtr666r6ruyru88ijhbnnnnttyyy 5tr657yt7687uyjh879i00erdf35353t363t36tthyhg7676hg76u67ghj766hhg776hhh 1
mn3 127.0.0.2:14815 7u76uy882ew3e2dsfdv5tr6rytb67787jt7gu54840909u80y0y084ff5 67opo06uvu990e5ub99uvb9ue59b vu0u09v0uw0v0y0f0cbvczjiugy9ohof8yh8yu 0
```