

Masternode Setup Guide

This guide is for a single masternode, on a Ubuntu 16 64bit server (1GB RAM minimum) that will be controlled from the wallet on your local computer.

If this is your very first time renting a VPS, I recommend www.scaleway.com

You can pick the cheapest VPS for a single Masternode:

The screenshot shows the Scaleway VPS selection interface. The sidebar on the left contains navigation links: Dashboard, Servers, Images, Volumes, Snapshots, Network, Security, Storage, Support, Community, and Documentation. The main content area displays server options for Paris and Amsterdam. Under the 'Server range' section, there are tabs for Start, Baremetal, Pro, and Arm. The 'Start' tab is selected, showing four server types: START1-XS (1 X86 64bit Cores, 1GB memory, 100Mbit/s Unmetered), START1-S (2 X86 64bit Cores, 2GB memory, 200Mbit/s Unmetered), START1-M (4 X86 64bit Cores, 4GB memory, 300Mbit/s Unmetered), and START1-L (8 X86 64bit Cores, 8GB memory, 400Mbit/s Unmetered). Below this is a 'Choose an image' section with tabs for Distributions, My images, and Snapshots. Under 'Distributions', there are two options: Ubuntu Xenial and Fedora Mini 28 25G. At the bottom, a summary bar shows the selected configuration: Name scw-6fe220, Location Paris, Server Type START1-XS, Image Ubuntu Xenial, Storage 25 GB LSSD, and Price €1.99/mo (€0.004/hour). A 'Create server' button is also present.

Before purchasing the Server, you should know how to Connect to the Servers, see this [Guide](#)

You need to create a Swapfile so your Masternode won't run out of RAM:

We can create a 4 Gigabyte file by typing:

```
sudo fallocate -l 4G /swapfile
```

Allowing other users to read or write to this file would be a huge security risk. We can lock down the permissions by typing:

```
sudo chmod 600 /swapfile
```

Now that our file is more secure, we can tell our system to set up the swap space by typing:

```
sudo mkswap /swapfile
```

Our file is now ready to be used as a swap space. We can enable this by typing:

```
sudo swapon /swapfile
```

Make the Swap File Permanent

We have our swap file enabled, but when we reboot, the server will not automatically enable the file. We can change that though by modifying the `fstab` file.

Edit the file with root privileges in your text editor:

```
sudo nano /etc/fstab
```

At the bottom of the file, you need to add a line that will tell the operating system to automatically use the file you created:

```
/swapfile none swap sw 0 0
```

Save and close the file when you are finished.

After you've got your server running, you should go through the initial setup guide [here](#) before doing anything masternode related, for security purposes.

The least you should do is create a User with root privileges and connect to the Server with the new User, however I do recommend setting up a basic firewall, too:

```
adduser username
```

```
usermod -aG sudo username
```

Now disconnect from Console and connect with the newly created User!

Basic requirements

- 1,000 DOMO
 - A main computer (containing the main wallet where your coins will be stored)
 - Masternode Server (The VPS that will be on 24/7)
 - A unique IP address for *EACH* masternode
- (For security reasons, you're gonna need a different IP for each masternode you plan to host)

The basic reasoning for these requirements is that, you get to keep your DOMO in your local wallet, and host your masternode remotely, securely.

For this guide, I'm going to refer to your main computer's wallet as the main wallet, and the masternode wallet as the masternode wallets.

Setting up the Masternode wallet

First, you'll have to install the required packages

Console will ask for confirmation sometimes, just press Y + Enter and proceed.

```
Sudo apt-get update

sudo apt-get upgrade

sudo apt-get install build-essential libtool automake autoconf

sudo apt-get install autotools-dev autoconf pkg-config libssl-dev

sudo apt-get install libgmp3-dev libevent-dev bsdmainutils libboost-all-dev

sudo add-apt-repository ppa:bitcoin/bitcoin

sudo apt-get update

sudo apt-get install libdb4.8-dev libdb4.8++-dev

sudo apt-get install libminiupnpc-dev
```

Now we have to build the wallet. Clone the Github DOMO repository from [here](#).

```
sudo apt-get install git  
git clone https://github.com/Utopianer/DomoCore
```

Now execute the following lines :

```
cd DomoCore  
./autogen.sh  
./configure --without-gui (you don't need a visual interface for your masternode)  
sudo make
```

Now start the DOMO headless client

```
cd src  
domod -reindex
```

A new file has been created containing the configuration files you need to edit later. Press CTRL + C to quit the daemon (leave it open for like 5mins so the Blockchain can sync)

Setting up the main wallet

Go to your local computer where your main wallet is running with all your coins inside. Go to the wallet debug console and type :

```
getnewaddress MN1
```

Then copy the returned address and send exactly 1000 DOMO to this address. Wait for 1 confirmation, then go to the debug console :

```
masternode outputs
```

You should see one line corresponding to the transaction id (*tx_id*) of your 1000 coins with a digit identifier (*digit*). Save these two strings in a text file.

Note that if you get more than 1 line, it's because you made multiple 1000 coins transactions, with the *tx_id* and *digit* associated.

Now we have to create the masternode private key to link the main wallet and the VPS masternode. Type in the debug console :

```
masternode genkey
```

Copy this key somewhere. It will be referred as *masternodeprivkey*.

Next, you have to go to the data directory of your main wallet (in Linux it's located at /home/user/.domo) on Windows it's usually C:\Users\Username\AppData\Roaming. You can navigate there extra fast by typing %appdata% in your file explorer path.

Open the *masternode.conf* file and type :
The IP is the public IP you get from your VPS provider, when purchasing a Server, you also use it to connect to the Server.

```
MN1 IP:41992 masternodeprivkey tx_id digit
```

Save it and close it. Restart your main wallet.

Note that each line of the *masternode.conf* file corresponds to one masternode.

Back to the Masternode wallet

Navigate to the data directory by typing

```
cd
```

```
cd ../.domo
```

```
nano domo.conf
```

Now copy paste the following configuration :

```
rpcuser=user
rpcpassword=pass
rpcallowip=127.0.0.1
listen=1
server=1
daemon=1
externalip=IP
masternode=1
masternodeprivkey=masternodeprivke
ytxindex=1
logtimestamps=1
maxconnections=256
addnode=51.15.83.141
addnode=51.15.234.181
addnode=51.15.67.174
addnode=163.172.130.220
addnode=163.172.160.99
addnode=163.172.174.26
```

(Please make sure the configuration entrys are on one line each, if you copy paste into nano the .conf may get badly formatted and Masternode won't work properly! I recommend using WINSCP (just google it), if you are connecting from Windows to your vps, this way you can use local editors and don't have to

You need to change IP to your VPS IP address, the *masternodeprivkey* is the one that you got from the main wallet. Choose whatever you like for *user* and *password*.

Type Ctrl + X => Y => Enter. The file *domo.conf* is now saved.

If you have a firewall (with this [guide](#)), you need to open the 41992 port and 41993 :

```
sudo ufw allow 41992/tcp
sudo ufw allow 41993/tcp
```

Now start you masternode wallet by navigating through your DOMO folder.

```
cd
```

```
cd DomoCore/src/
```

```
domod -reindex
```

Wait like 10 mins for your wallet to download the blockchain.
You can check the progress with the following command :

```
./domo-cli getblockcount
```

The block number has to catch up with the latest on the [explorer](#).

Starting the Masternode

Go back to your main wallet, to the Masternode tab.

You need to wait for 15 confirmations in order to start the masternode. Select the line corresponding to the masternode.

Click "start-alias". Your masternode should be now up and running !

If your wallet is locked/encrypted, you need to unlock it first.

Checking the Masternode status

You can check the masternode status by going to the masternode wallet and typing:

```
domo-cli masternode status
```

If your masternode is running it should print "Masternode successfully started". Sometimes your output transaction get staked during the process, as local wallet got staking enabled by default, so please check if your outputs still exist.

Check back after 1-2 hours, if you got your first Masternode rewards. Leave the local wallet open and enable staking!

Congratulations you have setup your Masternode successfully.
Thank you for supporting the project!
Please let me know, if everything worked for you,
have a nice day!