

Crowdcoin Masternode Setup Guide

on UBUNTU VPS Server

We need at least 1GHz and 2GB of Ram, if you don't have enough ram you can do a swap file

For this you can use these step by step guide [here](#)

Before anything set up initial server using this guide [here](#)

List of things that are essential:

1. 1000CRC (+1 CRC to cover any TX fees)
2. IP address
3. And the Obvious a VPS server

Now we are Ready to do the Node

Step 1: Install the packages

```
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
```

Step 2: Build the Wallet

Clone the git from here: <https://github.com/crowdcoinChain/Crowdcoin>

```
sudo apt-get install git  
git clone https://github.com/crowdcoinChain/Crowdcoin.git
```

Step 3: Go to the Crowdcoin folder that you have created and execute this :

```
cd Crowdcoin  
chmod 755 autogen.sh  
./autogen.sh  
./configure  
chmod 755 share/genbuild.sh  
make
```

Step 3: Start Headless Client

```
cd src  
./Crowdcoin -daemon
```

Now we are going back to our Windows Wallet the Local wallet that you keep your coins

Step 1: Go to the wallet Tools-> Debug Konsole and enter

```
getnewaddress MN1
```

Copy the address that it give you

Step 2: Send 1000cra to the address that you copied

Wait for 1 Confirmation

Then go to Debug Console again and type

```
masternode outputs
```

Now you should see 2 lines

```
tx_id
```

```
digit
```

Save these 2 lines to a Text document

I assume you have the debug console open type `masternode genkey` this is your masternode private key copy it in a text document we will be needing it later

Step 3: Go to your Crowdcra data directory it is usually in

C:\Users\user1\AppData\Roaming\CrowdcraCore

Open the masternode.conf and type

```
MN1 IP: 12875 masternodeprivkey tx_id digit
```

Save and close

Ok now we are going Back to our Server wallet

Go to crowdcra folder by typing

```
cd /home/user/.CrowdcraCore
```

The *user* corresponds to your computer username in which you are logged in.

```
nano crowdcra.conf
```

Now copy and paste these

```
rpcuser=user  
rpcpassword=pass  
rpccallowip=127.0.0.1  
listen=1  
server=1  
daemon=1  
staking=0  
externalip=IP: 12875  
masternode=1  
masternodeprivkey=masternodeprivkey
```

Username and pass can be of your choice

IP should be your VPS IP address

The Port should always be 12875

The masternodkey is the one that you have copied paste it there

Now Ctrl+X then Y then Enter

Execute that `sudo ufw allow 12875/tcp`

Note that you have to open the port 1287 a5

Now start the masternode by navigating to your folder

```
cd  
cd Crowdcoin/src/  
./crowdcoind -daemon
```

Wait 15 minutes

After that go back to the main Wallet then go to Masternode Tab and click Start Alias and your masternode should be up

Note1 You must wait for at least 15 Confirmation before starting the masternode

Note2 You can check the status of your Masternode by going to your VPS wallet and typing

```
./crowdcoin-cli masternode status
```

SENTINEL

Sentinel is a watchdog for your Masternode which communicates to the network that your node is working properly

OK assuming that you are fully synced and have your masternode running on A watchdog status now we will do the sentinel .

Step 1: Instal the prerequisites

```
sudo apt-get update
```

```
sudo apt-get install-y git python-virtualenv
```

Step 2: Go to the crowdcoincore folder

```
cd .crowdcoincore
```

Step 3: Clone sentinel

```
git clone https://github.com/dashpay/sentinel.git
```

```
cd sentinel
```

Step 4: Create virtual python environment

```
sudo apt-get install-y virtualenv
```

Step 5: Instal sentinel dependencies

```
venv/bin/pip install-r requirements.txt
```

Step 6: Test sentinel

```
nano sentinel.conf
```

Uncomment the #dash_conf line at the top and add the path to yours MN crowdcoin.conf

Save and close

Now run:

```
venv/bin/python bin/sentinel.py
```

You will see a message about not fully sync to the network this is ok: run

```
Sudo apt-get install-y virtualenv
```

Step 7: Wait the reindex and to fully sync go to crowdcore folder

```
cd .crowdcoincore
```

```
./crowdcoin-cli mnsync status
```

Assuming it s fully sync you should see this

```
{  
  "AssetID": 0,  
  "AssetName": "MASTERNODE_SYNC_FINISHED",  
  "Atempt": 0,  
  "IsBlockchainSynced": true,  
  "IsMasternodeListSynced": true,  
  "IsWinnersListSynced": true,  
  "IsSynced": true,  
  "IsFailed": false  
}
```

Step 8: now go back to your local wallet and run your masternode

```
walletpassphrase <your passphrase> 120
```

```
masternode start-alias <your label>
```

Step 9: Test sentinel

```
cd sentinel
```

Now run

```
venv/bin/python bin/sentinel.py
```

It should return nothing which means it works