Ubuntu Server 18.04 setup guide

About Us: cryptowithacause is a joint fund-raising effort of a couple charities to support the migrant, refugee and homeless crisis in Greece. Funds are use to support homeless feeding programs and assistance to migrants in need.

How do I setup CWC cryptowithacause masternode? (Quark based)

applies to Quark branch 3.3

Use the following instructions to setup a masternode for a Quark based coin on **Ubuntu Server 18.04**

Make sure that you have the following requirements.

- Required amount of coins to setup the masternode.
- A wallet to store your coins.
- A server or VPS.

Please visit our Github page to find the wallet or files required.
https://github.com/cryptowithacause/cwaccoin/tree/master/releases/download/1.0.0.0

STEPS:

Prepare your VPS
Install Ubuntu Server 16.04 on a VPS.

Update your Ubuntu machine.

```
sudo apt-get update
sudo apt-get upgrade
```

Install the required dependencies.

sudo apt-get install build-essential libtool autotools-dev automake pkg-config libssl-dev libevent-dev bsdmainutils python3 libboost-system-dev libboost-filesystem-dev libboost-chrono-dev libboost-test-dev libboost-thread-dev libboost-all-dev libboost-program-options-dev

sudo apt-get install libminiupnpc-dev libzmq3-dev libprotobuf-dev protobuf-compiler unzip software-properties-common

Install Berkeley DB.

sudo add-apt-repository ppa:bitcoin/bitcoin
sudo apt-get update
sudo apt-get install libdb4.8-dev libdb4.8++-dev

Download the files required.

wget
https://github.com/cryptowithacause/cwaccoin/blob/master/releases/download/1.0.0.0/cryptowithacause-daemon-linux.tar.gz

wget
https://github.com/cryptowithacause/cwaccoin/blob/master/releases/download/1.0.0.0/cryptowithacause-qt-linux.tar.gz

Extract the tar files.

sudo tar -xzvf cwacU16.tar.gz
sudo tar -xzvf cwcU16qt.tar.gz

Install the daemon and tools.

sudo mv cryptowithacaused cryptowithacause-cli cryptowithacause-tx /usr/bin/

sudo chmod +x /usr/bin/crypto*

Create the config file.

sudo mkdir $HOME/.cryptowithacause
sudo nano $HOME/.cryptowithacause/cryptowithacause.conf

Paste the following lines in cryptowithacause.conf.

```
#----
rpcuser=rpc_cryptowithacause
rpcpassword=kuw05sqio7bcm8z96o7redv17xws1lw6xpd1qf33
rpcallowip=127.0.0.1
#----
listen=1
server=1
daemon=1
maxconnections=64
#----
#masternode=1
#masternodeprivkey=
externalip= REPLACE_WITH_EXTERNAL_IP_OF_VPS
#----
```

Leave the fields “masternode” and “masternodeprivkey” commented out.

Replace the text “REPLACE_WITH_EXTERNAL_IP_OF_VPS” with the external IP address of your VPS.

E.G. externalip=136.144.171.201

Start your node with the following command.

cryptowithacaused

Wait until the daemon has finished downloading the blockchain.

Send the collateral
Open your wallet and wait until your wallet has downloaded the blockchain.

Go to “Tools”.
Click “Debug console”.
This is the console where you will execute all commands.

Create a new masternode private key.

createmasternodekey

Example output

7VatfYVk5fFMTymPDhgSURAESDACJhWpd89WHGoh35d9fbLQPj5

Show your collateral address.

getaccountaddress "MN1"

Example output

TDC99hZmSmYEcBu4WcxA2TCT6KBqHB6Hos

Transfer the required amount of coins to the “collateral address” that you created using the command “getaccountaddress "MN1"”.

Wait until the transaction has the required masternode confirmations.

Go to “Tools”.
Click “Debug console”.
Enter the following command.

getmasternodeoutputs

Example output


```
[
  {
    "txhash": "506a242ccbfd2555bcd9cff5f4041752c911f39cb2905acc83ccfe0cf8808df9",
    "outputidx": 1
  }
]
```


Go to “Tools”.
Click “Open Masternode Configuration File”.

Modify the following line and paste it into notepad.

MN1 136.144.171.201:9999 7VatfYVk5fFMTymPDhgSURAESDACJhWpd89WHGoh35d9fbLQPj5 506a242ccbfd2555bcd9cff5f4041752c911f39cb2905acc83ccfe0cf8808df9 1

MN1 - Alias for your masternode.

136.144.171.201 - External IP address of your VPS.

9999 - Replace with P2P port of your coin.

7VatfYVk5fFMTymPDhgSURAESDACJhWpd89WHGoh35d9fbLQPj5 - Masternode private key from the command “createmasternodekey”.

506a242ccbfd2555bcd9cff5f4041752c911f39cb2905acc83ccfe0cf8808df9 - Value “txhash” from the command “getmasternodeoutputs”.

1 - Value “outputidx” from the command “getmasternodeoutputs”.

Save the file and close notepad.
Close your wallet.

Register your masternode

Place the masternode private key in the config file of your masternode and uncomment the values "masternode" and "masternodeprivkey".

Example config

```
#----
rpcuser=rpc_cryptowithacause
rpcpassword=kuw05sqio7bcm8z96o7redv17xws1lw6xpd1qf33
rpcallowip=127.0.0.1
#----
listen=1
server=1
daemon=1
maxconnections=64
#----
masternode=1
masternodeprivkey=ENTER_YOUR_KEY
externalip= REPLACE_WITH_EXTERNAL_IP_OF_VPS
#----
```

Restart your masternode using the following commands.

```
cryptowithacause-cli stop
cryptowithacaused
```

Open your wallet.

Go to "Settings".
Click "Unlock Wallet".

Enter your wallet passphrase and unlock your wallet.

Go to "Tools". **Click "Debug console".**

Start your masternode using the command.

startmasternode alias false MN1

Your masternode is now registered and will appear in the masternode list.

You can check the status of your masternode using the command "getmasternodestatus" on your VPS.

sudo cryptowithacause-cli getmasternodestatus

Example output


```
{
  "txhash": "506a242ccbfd2555bcd9cff5f4041752c911f39cb2905acc83ccfe0cf8808df9",
  "outputidx": 1,
  "netaddr": "136.144.171.201:9999",
  "addr": "TDC99hZmSmYEcBu4WcxA2TCT6KBqHB6Hos",
  "status": 4,
  "message": "Masternode successfully started"
```


Well done! Your masternode is now running and rewards will start to arrive in your wallet soon.