

Ubuntu Server 16.04 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 16.04**

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

sudo apt-get update -y && apt-get upgrade -y && apt-get install git -y && apt-get install build-essential libssl-dev libboost-all-dev libqrencode-dev pkg-config libminiupnpc-dev qt5-default qttools5-dev-tools libgmp3-dev -y && add-apt-repository ppa:bitcoin/bitcoin -y && apt-get update -y && apt-get install libdb4.8-dev libdb4.8++-dev -y && apt-get install autoconf -y && apt-get install build-essential libtool autotools-dev pkg-config libssl-dev libboost-all-dev autoconf automake -y && apt-get install libzmq3-dev libminiupnpc-dev libssl-dev libevent-dev -y && apt-get install libgmp-dev -y && apt-get install openssl -y && apt-get update -y && apt-get install git build-essential -y && apt-get install aptitude -y && aptitude install libdb4.8++-dev -y && apt-get install git -y && apt-get install software-properties-common python-software-properties -y && add-apt-repository ppa:git-core/ppa -y && apt-get update -y

sudo apt-get update && sudo apt-get install gcc-4.9 -y && sudo apt-get upgrade libstdc++6 -y && sudo apt-get update && sudo apt-get install libstdc++6 -y && sudo apt-get update && sudo apt-get install -y software-properties-common && sudo add-apt-repository ppa:ubuntu-toolchain-r/test && sudo apt-get update && sudo apt-get install -y curl build-essential supervisor wget libstdc++6 && sudo apt-get upgrade -y

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/cwacU16.tar.gz wget https://github.com/cryptowithacause/cwaccoin/blob/master/releases/download/1.0.0.0/cwcU16qt.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

```
#----
rpcallowip=127.0.0.1
rpcport=18459
listen=1
txindex=1
staking=0
server=1
daemon=1
logtimestamps=1
maxconnections=256
masternode=1
port=18460
#externalip= REPLACE_WITH_EXTERNAL_IP_OF_VPS
masternodeprivkey=mn-private-key
masternodeaddr= REPLACE_WITH_EXTERNAL_IP_OF_VPS:18460
addnode=217.61.5.105
addnode=99.241.9.54
#----
```

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.

