Introduction

This guide is intended to configure a CharityCoin masternode, on a Ubuntu 16.04 64bit server (VPS) or an Ubuntu 18.04 64bit server (VPS) running headless and will be controlled from the wallet on your local computer (Control wallet). The wallet on the the VPS will be referred to as the Remote wallet.
You will need your server details for progressing through this guide.

First the basic requirements:

1. 2,000 CharityCoin
2. A main computer (Your everyday computer) – This will run the control wallet, hold your collateral 2,000 CharityCoin and can be turned on and off without affecting the masternode.
3. Masternode Server (VPS – The computer that will be on 24/7). We suggest you to use an Ubuntu 16.04 64bit server or an Ubuntu 18.04 64bit server.
4. A unique IP address for your VPS / Remote wallet

(For security reasons, you're are going to need a different IP for each masternode you plan to host)

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

Configuration

Note: The minter should be disabled during this setup to prevent autominting of your masternode collateral. BEFORE unlocking your wallet, you can disable autominting in the control wallet option menu.

1) Using the control wallet, enter the debug console (Tools > Debug console) and type the following command:
masternode genkey `(This will be the masternode's privkey. We'll use this later…)`

2) Using the control wallet still, enter the following command:
getaccountaddress chooseAnyNameForYourMasternode

3) Still in the control wallet, send 2,000 CharityCoin to the address you generated in step 2 (Be 100% sure that you entered the address correctly. You can verify this when you paste the address into the "Pay To:" field, the label will autopopulate with the name you chose", also make sure this is exactly 2,000 CharityCoin; No less, no more.)
–Be absolutely 100% sure that this is copied correctly. And then check it again. We cannot help you, if you send 2,000 CharityCoin to an incorrect address.

4) Wait until the the transaction is confirmed and still in the control wallet, enter the command into the console:
masternode outputs (This gets the proof of transaction of sending 2,000)

5) Still on the main computer, go into the CharityCoin data directory, by default in Windows it'll be `%Appdata %/C`**`harityCoin`** Linux`~.charitycoin`

Find masternode.conf and add the following line to it:

<Name of Masternode(Use the name you entered earlier for simplicity)> <Unique IP address>:40014 <The result of Step 1> <Result of Step 4> <The number after the long line in Step 4>

```
Example: MN1 120.14.135.27:48490
93HaYBVUCYjEMeeH1Y4sBGLALQZE1Yc1K64xiqgX37tGBDQL8Xg
c8f4965ea57a68d0e6dd384324dfd28cfbe0c801015b973e7331db8ce018716999 1
```

Substitute it with your own values and without the "<>"s

VPS Remote wallet install

7) Install the latest version of the CharityCoin wallet onto your masternode. The lastest version can be found here: https://github.com/charityc/charitycoin/releases

1. Go to your home directory: `cd ~`

2. From your home directory, download the latest version from the CharityCoin GitHub repository: `wgethttps://github.com/charityc/charitycoin/archive/1.0.0.0.tar.gz`
    1. The link above is for Ubuntu (or similar), make sure you choose the correct version of the core wallet if you are not using Ubuntu from:https://github.com/charityc/charitycoin/releases
3. **Unzip and extract:** `tar -zxvf 1.0.0.0.tar.gz`
4. Go to your CharityCoin directory: `cd ~/.charitycoin`
5. Note: If this is the first time running the wallet in the VPS, you'll need to attempt to start the wallet `./charitycoind` this will place the config files in your **~/.charitycoin** data directory
    1. press `CTRL+C` to exit / stop the wallet then continue to step 8

Configuration Cont.

8) Now on the masternodes, find the Lyberix data directory here.(Linux: ~/.charitycoin) `cd ~/.charitycoin`

9) Open the charitycoin.conf by typing `vi charitycoin.conf` then press **i t**o go into insert mode and make the config look like this:

```
rpcuser=long random username
rpcpassword=longer random password
rpcallowip=127.0.0.1
server=1
daemon=1
logtimestamps=1
maxconnections=256
masternode=1
externalip=your unique public ip address
masternodeprivkey=Result of Step 1
```

Make sure to replace rpcuser and rpcpassword with your own.

10) to exit the editor press `esc` then`:` `wq!` then press enter

Start your masternode

11) Now, you need to finally start these things in this order
– Start the daemon client in the VPS. First go back to your installed wallet directory, `cd ~/.charitycoin` and then start the wallet using `./charitycoind`
– Encrypt your wallet with the following command `./charitycoin-cli encryptwallet <chooseasecurepassword>`

– Unlock your wallet`./charitycoin-cli walletpassphrase <yoursecurepassword> 1234567 true`

– From the Control wallet debug console `startmasternode start-alias <mymnalias>`
where <mymnalias> is the name of your masternode alias, you choose it on step 2. (without brackets)

The following should appear:
"overall" : "Successfully started 1 masternodes, failed to start 0, total 1",
"detail" : [
{
"alias" : "<mymnalias>",
"result" : "successful",
"error" : ""
}

– Back in the VPS (remote wallet), start the masternode `./charitycoin-cli masternode start`
– A message "masternode successfully started" should appear

12)Use the following command to check status:

./charitycoin-cli masternode status

You should see something like:

```
{
“txhash” : “3345456456435345343242389 08f36ff4456454dfffff51311”,
“outputidx” : 0,
“netaddr” : “45.11.111.111:48490”,
“addr” : “C6fujc45645645445645R7TiCwexx1LA1”,
“status” : 4,
“message” : “Masternode successfully started”
}
```

Congratulations! You have successfully created your masternode!