

SETTING UP COLD MASTERNODES

This guide will show you how to setup a cold node. This means the masternode itself doesn't hold any coins, they are all in your local wallet.

Preamble:

If you need to get a VPS and compile the wallet have a look at the [Ressource Overview](#) to complete those tasks first. This guide assumes you have completed those steps and your wallet is fully synced.

Just to be sure you understand what needs to be done first:

1. Our usual tools.
2. Get a VPS up and running.
3. Compile the wallet on your remote system and sync it-
4. Have a local wallet that is also fully synced.
5. Have the correct amount of coins you need + some spare coins for TX fees.

Notes: Things IN CAPTIAL have to be replaced by you with the correct things. (if any)

Comments are in red.

Commands to copy and paste are in blue.

LOCAL means your desktop wallet, REMOTE means the VPS.

This guide uses Desire as an example but will work with any other masternode coin as well.

Assumptions:

- Your remote wallet is up and running and fully synced.
- Your local wallet is up and running and holding enough coins.
- Your local and remote confs contain nothing or rpcuser and rpcpassword only.
- your masternode.conf is empty.
- You have notepad or any other editor open to copy paste a few things

We will setup 1 masternode, if you want to setup more, you just have to rinse and repeat the steps.

You can easy get lost with all the stuff you have to copy and paste so i suggest you use a skeleton in your notepad that looks like this:

Label:

Collateral address:

Masternode Key:

Public IP:
MN conf line:

You can copy it as many times as needed and fill the data in you collect during the progress. A filled out skeleton could look like this:

```
*****
Label: MN1
Collateral address: DEeH5SKX3MSh6d1iGgLet5KzjigvYc4bFP
Collateral ouput:
c89f1d48efe79df79698sdf98sdf98ds63cd6edeabcd2d5e1d7e97bbb7od 1
Masternode Key: 7edfdewd3wvZi6JQfewwefr32qeymkB2G4ebXhch
Public IP: 257.257.257.257:12845
MN conf line:
MN1 257.257.257.257:12845 7edfdewd3wvZi6JQfewwefr32qeymkB2G4ebXhch
c89f1d48efe79df79698sdf98sdf98ds63cd6edeabcd2d5e1d7e97bbb7od 1
*****
```

This will help you to keep on track not getting confused. Let's get things going!

COLLATERAL

This steps will be done local!

Open your wallet and go to:
Settings -> Configuration -> Wallet -> check: Show Masternode Tab
Also, check Activate Coincontrol Features.
You will need to restart the wallet.

First, we will do the initial collateral TX and send exactly 1000 DSR to one of our addresses. To keep things sorted in case we setup more masternodes we will label the addresses we use.

- Open your DESIRE wallet and switch to the "Receive" tab.
- Click into the label field and create a label, I will use MN1
- Now click on "Request payment"
- The generated address will now be labeled as MN1

If you want to setup more masternodes just repeat the steps so you end up with several addresses for the total number of nodes you wish to setup. Example: For 10 nodes you will need 10 addresses, label them all.

- Once all addresses are created send 1000 DSR each to them. Ensure that you send exactly 1000 DSR and do it in a single transaction. You can double check where the coins are coming from by checking it via coin control usually that's, not an issue.

- As soon as all 1k transactions are done, we will wait for 15 confirmations. You can check this in your wallet or use the explorer. It should take around 30 minutes.
- If all transaction have 15 confirmations, open the debug console and type:

masternode outputs

You should see something like:

```
{  
"c89f1d48efe79df79698sdf98sdf98ds63cd6edeabcd2d5e1d7e97bbb70d": "1",  
}
```

If you did more then one transaction it will list all eligible outputs.

Copy everything between {} and paste it into notepad. Get rid of " : and , so your line/s looks like this:

```
c89f1d48efe79df79698sdf98sdf98ds63cd6edeabcd2d5e1d7e97bbb70d 1
```

We will need that later.

Double check your local desire.conf. It's located in your Roaming Folder in AppData. To get there:

- Press the Windows Key
- type: %appdata% and press enter
- Navigate to your DesireCore folder and open it
- You will find the desire.conf in it, open it.
- I suggest to only have the following entries as nothing else is needed and even the ones i paste here are not really needed:

```
rpcuser=SOMEUSER  
rpcpassword=SOMEPASSWORD
```

That's it, nothing else! Close the wallet.

```
#### REMOTE ####
```

Remember I assume you followed the guide to compile the wallet according to my guide, if you changed any path settings or set it up with a different user you will need to adjust the line.

If the daemon is not running, start it up with

```
sudo ./desired -daemon
```

Check if it's up to date with:

```
sudo ./desire-cli getinfo
```

If its fully synced we can move on, if not wait till it is.

```
sudo ./desire-cli masternode genkey
```

The output should look like this:

```
7edfjLCUzGczZi3JQw8GHp434R9kNY33eFyMGeKRymkB56G4324h
```

Copy the output of that into your notepad.

Close the wallet with:

```
sudo ~/desire-cli stop
```

Open your [desire.conf](#) and make sure it looks like this:

```
sudo nano ~/.DesireCore/desire.conf
```

```
rpcuser=SOMEUSER
rpcpassword=SOMEPASSWORD
bind=257.275.257.257:12845 # YOUR PUBLIC IP OF THE VPS, USE THE BIND IN
ANY CASE AS THIS WILL EASE UP THINGS FOR MULTIPLE DAEMONS RUNNING
ON THE VPS
masternode=1
masternodeprivkey=7edfjLCUzGczZi3JQw8GHp434R9kNY33eFyMGeKRymkB56G4
324h # THE KEY YOU GENERATED EARLIER
```

Press CTRL + X to close and answer the question if changes should be saved with y.

Start the wallet up with:

```
sudo ./desired -daemon
```

```
#### LOCAL ####
```

Head back to your AppData Folder. It should still be open if you didn't close it. We will now assign the masternode. Open the masternode.conf. The line you need to put in consists of:

```
LABEL PUBLICIP:PORT MASTERNODEKEY COLLATERALTX 0 or 1
```

Look at how its done at the example and create a line with your data. My example line would look like:

MN1 257.275.257.257:12845 7edfjLCUzGczZi3JQw8GHp434R9kNY33eFy324hc89f1d48efe79dds63cd6edeabcd2d5e1d7e97bbb70d 1

Save the masternode.conf. Startup your local wallet.

Head over to the Masternode tab, you will see your MN in it. Status might say "Missing" or something like that. Click on the label and then click the "Start Alias" Button (or use "start all" or "Start missing")

You will get a popup that tells you your node was successfully started. The status will change to pre-enabled. It might take 30-60 minutes before its "ENABLED". You can update the status by clicking the Refresh/Update Button.

That's it! Your masternode is up and running!

You might consider to backup and encrypt your wallet. If there is a real need for a guide for doing so, let me know.

RUN MULTIPLE NODES ON ONE VPS

What you need:

- the amount of coins + fees
- the ability to get additional public IPs. Some hosters will assign an IPv4 and IPv6, which gives you initially 2 IPs. If you want to use the v6 one, just follow the guide and use that one instead. However, it's suggested to stick with IPv4 addresses but IPv6 will work on most coins
- If you can't get additional IPs you might wanna look into getting more cheap VPS systems.
- notepad or any editor to copy and paste stuff. If you followed this guide you should already have one open.

Assumptions:

- You followed my guides so far and did exactly what i wrote.

REMOTE

We need several daemons running in order to get multiple masternodes up. We archive this by specifying different datadirs and configs. Let's start:

```
cd ~/DesireCore/src
```

```
sudo mkdir ~/.DesireCore1 # if you want to do several masternodes repeat this as many times as needed and just count up
```

```
sudo touch ~/.DesireCore1/desire.conf
```

The upstart command will be build depending on your datadir and conf path. In this example it would be:

```
sudo ./desired -datadir=~/.DesireCore1 -config=~/.DesireCore1/desire.conf -daemon
```

The above command sometimes doesn't work, if you encounter issues specify the absolute path. If you don't know it you can use:

```
sudo find / -name desire.conf
```

This will list all matching files and will also show the one located in ~/.DesireCore1

Let the wallet sync up. You can follow the progress with:

```
sudo watch ./desire-cli -datadir=~/.DesireCore1 -config=~/.DesireCore1/desire.conf getinfo
```

You can release the screen with CTRL + C. Once the wallet is up to date do:

```
sudo ./desire-cli -datadir=~/.DesireCore1 -config=~/.DesireCore1/desire.conf masternode
```

genkeyCopy the key into notepad. Repeat those steps for all daemons you want to run. Double check you are using the correct datadir and conf each time.

Close all running daemons you just started with:

```
sudo ./desire-cli -datadir=~/.DesireCore1 -config=~/.DesireCore1/desire.conf stop
```

Edit all fresh created configs:

```
sudo nano ~/.DesireCore1/desire.conf
```

Fill it up the way we did before:

```
rpcuser=SOMEUSER
rpcpassword=SOMEPASSWORD
rpcport=A DIFFERENT PORT THAN YOU USED FOR THE FIRST ONE
bind=258.258.258.258:12845 # YOUR SECONDARY PUBLIC IP (OR THIRD OR FOURTH)
masternode=1
masternodeprivkey=THE NEW KEY YOU CREATED FOR THAT SPECIFIC WALLET
```

Save and exit with CTRL + X -> y -> enter

Start the daemon up with:

```
sudo ./desired -datadir=~/.DesireCore1 -config=~/.DesireCore1/desire.conf  
-daemon
```

```
#### LOCAL ####
```

Close your wallet if it is running and head back to AppData, open the masternode.conf. We will add a second line with the data we have according to the first one. Once you build that line, double check it, save and exit the conf.

Remember it's built with:

```
LABEL PUBLICIP:PORT MASTERNODEKEY COLLATERALTX 0 or 1
```

Once done, start the local wallet. Your second masternode will show up and just needs to be started.

Repeat the steps as often as needed. You are now controlling your masternodes from one wallet that will get all payments while running cold nodes.

That's it.