01 Coin Masternode Setup Guide

This guide will walk you through the steps needed to get your 01 masternode set up and running. You will need a QT wallet running on your local machine with at least 1000 01 + enough for a transaction fee and a Linux Ubuntu 14.04 VPS (Virtual Private Server). The binaries provided by the dev are for 14.04, you can use 16.04 but may have to compile the binaries.
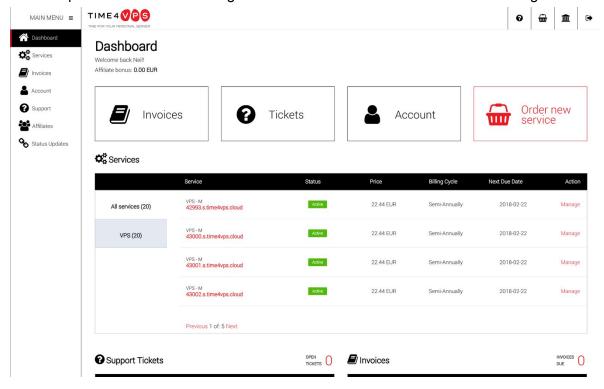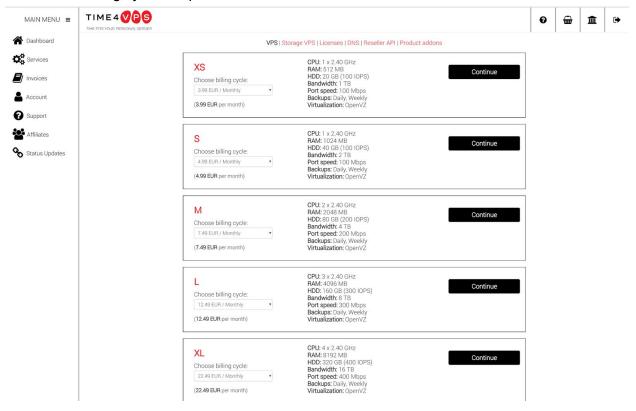
[Time4VPS Setup Steps](#)

[Masternode Setup Steps](#)

I use Time4VPS (https://billing.time4vps.eu/?affid=1984) as i've found them cheapest but any of your other favourite providers work! You only need what is typically the smallest VPS so 1 CPU, >512MB RAM, 20GB storage and 1TB bandwidth will be plenty. Rent the server, follow the instructions from your provider or the guides below for time4vps and vultur to get the OS installed then make a note of the IP address, username and password for the server - we will need that in a bit. The following takes you step by step setting up a linux VPS from Time4VPS as people have been asking how to do this
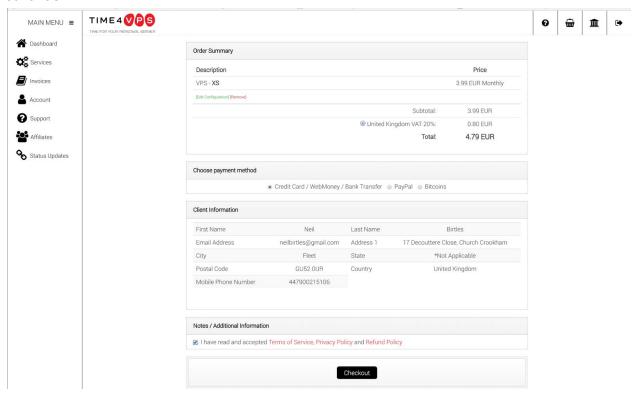
Time4VPS Setup Steps

Go to https://billing.time4vps.eu/?affid=1984 and and set up an account, then go to the "Dashboard" and the page will look something like this but without any service listed - I use this account quite a lot for various things. Click on "order new service" in red on the right.
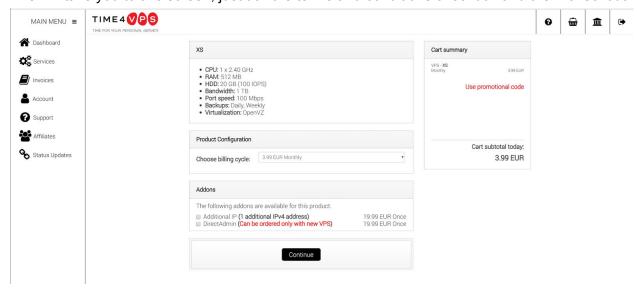
This will take you to a screen like this one - in this guide i'm buying a short term server just as an example, but you should pick how long you want the server for your masternode for as the rental gets cheaper per month the longer you rent for. Pick how long you want to rent for from the "choose billing cycle" drop down list in the "XS" section, then click "continue"
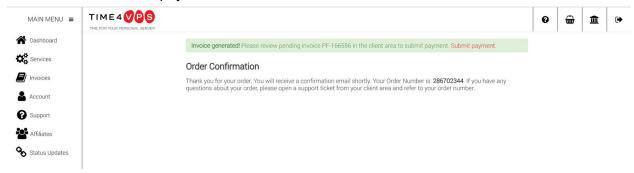
This will take you to a screen that looks like this, don't tick any of the check boxes just click continue
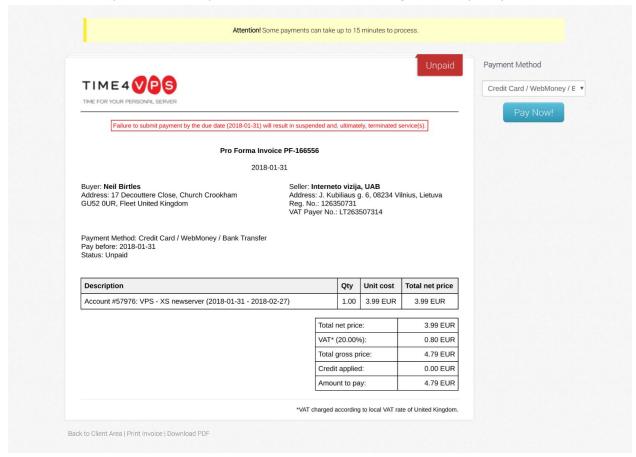

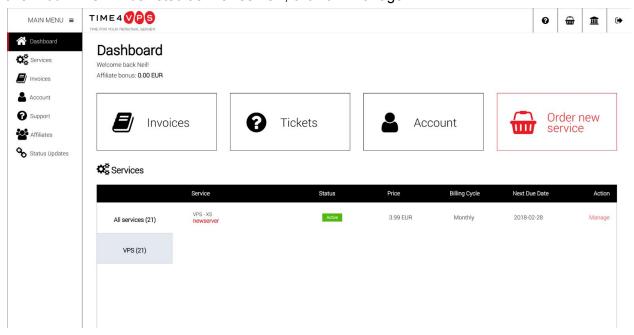This will take you to this screen, just tick the terms and conditions checkbox and then "checkout"

This will take you to the following screen that confirms your order, you now have to pay for it, click on the red "submit payment" link
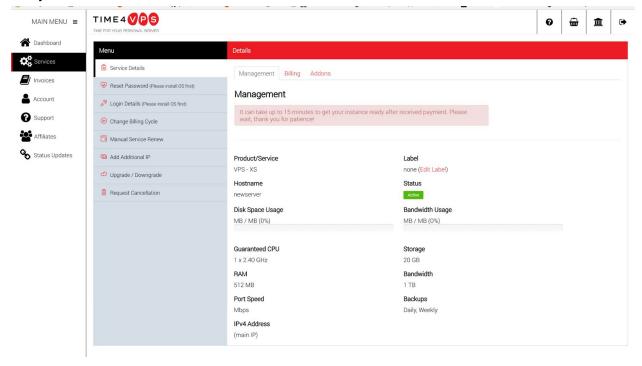

Now select how you want to pay from the dropdown on the right and pay for your order

There is no link to get back to the start page from here so just type in the web address or click the link above again to get you back to the home page which should now look something like this. Your VPS will be listed as "newserver", click on "manage"

This will take you to a screen like this - now you will have to wait for the server to be provisioned for you - as it say s this can take up to 15 min. Come back and check the page to see when its ready. When it is it will look like the next screen shot

When the server has been provisioned it will look like this. Now click the "install os" button

This will take you to a screen that look like this - select "Ubuntu 14.04 (64 bit)" from the drop down and check the "yes" checkbox as per the picture below. Then click "continue"

This will take you to a screen like this whilst the OS is installed

Refresh the page or click "installation results" to see progress. Once its installed you will get a page like below. This has your IP address shown on it - write this down - you will need it later. Now click on "login details" to get your password

That takes you to a screen like below, where you can click where it says "click here to show password" to get your password. Write that down as well as again you will need it in a minute. Thats it your VPS is set up and ready to go!

Masternode Setup Steps

At the QT wallet (i.e. the 01 wallet on your local computer) first make sure your masternode tab is showing and coin control is enabled. Go to Settings | Options | Wallet and tick the "show masternodes tab" checkbox and the "Enable coin control features" checkbox, click ok and then restart the wallet. When it opens up again you will have a new tab to the right of transactions called masternodes.

Now create the collateral address for your masternode - this is where your coins for the masternode will be stored. Click the Receive tab then enter a label - can be whatever you like - but i start with MN1 in case i get more than one up! Everything else can be left blank and then press "request payment" then click "copy address" and then "close".

Now send the coins to your newly created collateral address. Click the Send tab, paste the address you just copied into the "pay to" box and the label you created for it will appear in the label box underneath. Type 1000 into the amount box and make sure the "subtract fee from amount" checkbox is not checked as you need exactly 1000 going to this address in exactly one transaction. Then click send, type in your password as required and confirm the send. You can check this has worked by clicking the "inputs" button on the send tab and you should see you labeled address there will 1000 01 in it. Now we need to wait for 15 confirms on this transaction before we can start the masternode so we have time to set the rest up.

We need to create the entry in the local masternode configuration file first. So click Tools | Open Masternode Configuration File, and you will get a file that has an example masternode config line in it. Any lines starting with a # are comments so this example is ignored. Follow the example and enter a name for your masternode - can be anything but i like to match it to the label for the address, then a space, then the IP address of your VPS you got earlier then a :10000 for the masternode port. So far the line should look something like (but with your info in it!)

MN1 80.123.123.123:10000

Now we need to generate a masternode private key and get the transaction ID of the transaction that we used to send out coins to our masternode address. So click Tools | Debug Console. In the console window that comes up type "masternode genkey" without the quotes and press enter. That will output two lines, the first is the command you typed in and the second is the masternode private key. Copy that and paste it into the masternode configuration file after IP address and port entry with a space in between. So the line in the masternode config file now looks something like

MN1 80.123.123.123:10000 7rcm1p3p2JHVMDrKQCK4fadzJUUgcE736eP1j3dTYo3tc2tgfdSc

Now in the console again type "masternode outputs" again without the quotes. This will output the command you typed and a transaction ID and a number (usually 0 or 1) that shows the position of the transaction in the block. First copy the transaction id (without its quotes) and paste it after the masternode private key in the masternode configuration file with a space in between. Then add space after it and put in the number (again without quotes). The entry is now complete and will look something like (but all on one line)

MN1 80.123.123.123:10000 7rcm1p3p2JHVMDrKQCK4fadzJUUgcE736eP1j3dTYo3tc2tgfdSc db3f56f42d813f57fe79083b8865bf3a31d0c5a821642f7ee9c799d614611f23 1

Now save, but don't close the masternode configuration file as we will need the masternode private key in it for our VPS.

Log in to your VPS, either through the console your providers gives you on their website or using a SSH programme such as PuTTY (https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html) on windows or just use the command line to ssh in on linux or mac.

For PuTTY / windows type the IP address of your VPS into the Host Name box, leave the port as 22 and click open. You should be presented with a login prompt and type the username for your VPS and press enter, then type in the password for VPS and press enter. That should log you in.

For Linux / Mac open a command prompt and type "ssh username@ipaddress" without the quotes and press enter - where username is replaced by the username for your VPS and ipaddress is replaced by the ip address of your vps, for example ssh root@80.123.123.123. At the password prompt type in the vps password and press enter. That should log you in.

Now we need to install the masternode. First we need to update the VPS and install the dependencies. The ones below install all you need to build from source as well, but we won't be doing that in this guide

sudo apt install -y software-properties-common

sudo add-apt-repository ppa:bitcoin/bitcoin

sudo apt update && sudo apt upgrade -y && sudo apt install -y build-essential libtool autotools-dev automake pkg-config libssl-dev libevent-dev bsdmainutils libboost-all-dev libdb4.8-dev libdb4.8++-dev python-virtualenv nano git

(note that the last command is all one line and should be run as one single command)

Now grab the 01 linux binaries by typing (hint you can copy from this guide and right click to paste in most linux shells, and you can auto complete options by typing the fist part and then pressing tab to save typing!)

mkdir zeroone

wget https://github.com/zeroonecoin/zeroonecoin/raw/master/release/zeroone-linux.tar.gz

Now un-tar (i.e. unzip) the files by typing

tar -xvf zeroone-linux.tar.gz

Now remove the download by typing

rm zeroone-linux.tar.gz

Now create the 01 configuration file by typing

cd ..

mkdir .zeroonecore && nano .zeroonecore/zeroone.conf

In the file editor put the following into the file replacing the IP address with the one for your VPS and the masternodeprivkey with the private key we generated earlier (copy it from the masternode configuration file). The rpcuser and rpcpassword can be anything you want - don't copy mine! - but they must contain **no special characters**, only the basic english set or there will be errors thrown and things won't work properly

#mn1
rpcuser=mn1
rpcpassword=pOyOjhgRdghb34rvweFJ6

externalip=80.123.123.123:10000

masternode=1
masternodeprivkey=7rcm1p3p2JHVMDrKQCK4fadzJUUgcE736eP1j3dTYo3tc2tgfdSc
maxconnections=25
addnode=128.199.62.128
addnode=159.65.24.219
addnode=188.166.91.38
addnode=174.138.10.244

Now close and exit by typing ctrl-x then y then enter. Now start 01 by typing

zeroone/zerooned -daemon

Make sure it's running by typing (you will probably see an error about creating the wallet, thats ok its means its running)

zeroone/zeroone-cli getinfo
Now wait until the masternode has synced up fully by typing

watch zeroone/zeroone-cli mnsync status

This will update every two seconds and you need to wait till this shows 999 under the assetID section. Once it does exit the watch by typing ctrl-c. Now start watching the masternode status by typing

watch zeroone/zeroone-cli masternode status

This should be something about the masternode not being in the masternode list. Thats all good for the moment, now switch back to the QT wallet. Now check how many confirmations that the transaction that sent the 1000 coins has had by hovering over it with the mouse. If it has 15 or more confirmations then close the 01 QT wallet down, re-open it and wait for it to sync again. Now go to the masternode tab and click on the my masternodes sub tab. You should have a masternode in there that matches the configuration you put in the masternode configuration file, with the word "MISSING" for its status. Now click the "start MISSING" button, say yes you are sure, then type in your password and press enter. If everything has been set up right it will tell you you have successfully started your masternode and on the VPS the masternode will have changed status to "masternode successfully started". The status in the QT wallet will go to pre-enabled for 10 minutes or so then switch to enabled.

Congratulations you are now earning masternode rewards!

If you found this guide useful then feel free to donate:

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