



MAGNET MASTERNODE SETUP ON LINUX VPS

This tutorial shows the steps required to setup your Magnet masternode on a Linux server. Let's get started!

REQUIREMENTS

- Linux server (e.g. Ubuntu 17.04 hosted on Google cloud in this tutorial)
- 10,000 MAG

Renting and connecting to the server

Here are few VPS service providers to get You started - www.vultr.com / www.digitalocean.com / cloud.google.com

Next install SSH client - www.putty.org / www.bitvise.com

Generate a SSH key to configure VPS and add it to the client.

Connect will give you a shell session.

PREPARING THE SERVER

Open a shell and type the following commands to install the dependencies needed for the magnet daemon.

```
sudo apt-get install build-essential libtool automake autotools-dev autoconf pkg-config libssl-dev libgmp3-dev libevent-dev bsdmainutils
sudo apt-get install libboost-all-dev
sudo add-apt-repository ppa:bitcoin/bitcoin
sudo apt-get update
sudo apt-get install libdb4.8-dev libdb4.8++-dev
sudo apt-get install libminiupnpc-dev
sudo apt-get install unrar
```

INSTALLING THE DAEMON

It is recommended to build your wallet from source available on [Github](https://github.com).

Alternatively, you can download the latest binaries from our official website.

For the purpose of this tutorial, we will install magnetd from the binary archive.

Type the following command:

```
mkdir magnet
cd magnet

wget http://magnetnetwork.io/Wallets/magnet-qt-LINUX.rar
unrar e magnet-qt-LINUX.rar
chmod +x magnetd
```

STARTING THE DAEMON

We initially run the daemon so it creates the initial configuration files:

```
./magnetd
```

The daemon will print the following error and exit.

```
Error: To use magnetd, you must set a rpcpassword in the configuration file: /home/contact/.magnet/magnet.conf
```

CONFIGURING THE DAEMON

Type the following command to edit the configuration file (using vi editor):

```
vi ../.magnet/magnet.conf
```

Press **i** to enter insert edit mode and paste the following (choose your own user and password):

```
rpcallowip=127.0.0.1
rpcport=17179
rpcuser=username_goes_here
rpcpassword=password_goes_here
server=1
listen=1
daemon=1
port=17177
addnode=146.148.79.31:17177
addnode=104.196.202.240:17177
```

Press ESC to exit insert mode, press **:** to bring vi command, press **wq** to save and exit

We can now start the daemon again and it should print the message below:

```
./magnetd
Magnet server starting
```

GENERATING A MASTERNODE KEY AND FUNDS ADDRESS

Type CTRL + **C** to get back to the command line (magnetd will keep running in the background):

```
./magnetd masternode genkey  
<copy your masternode key printed here>
```

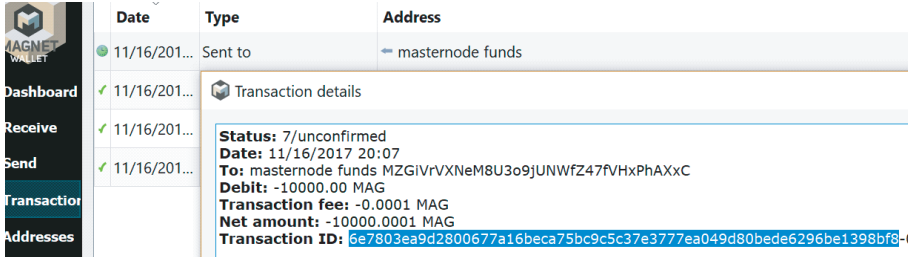
Copy the generated key we will need it later.

```
./magnetd getnewaddress  
<copy your funds address printed here>
```

Copy the generated address, we will send the funds to it.

Transfer the funds to the address generated in the previous step and keep track of the transaction id.

If you are sending from magnet-qt (UI) you can retrieve the id in the transaction tab by clicking on the transaction:



The screenshot shows the Magnet wallet interface. On the left is a sidebar with navigation options: Dashboard, Receive, Send, Transaction, and Addresses. The main window displays a transaction list with columns for Date, Type, and Address. The selected transaction is dated 11/16/2017 and is of type 'Sent to' with the address 'masternode funds'. A detailed view of this transaction is shown below, including the status (7/unconfirmed), date (11/16/2017 20:07), to address (masternode funds MZGIVrVXNeM8U3o9JUNWfZ47VHxPhAXxC), debit (-10000.00 MAG), transaction fee (-0.0001 MAG), net amount (-10000.0001 MAG), and transaction ID (6e7803ea9d2800677a16beca75bc9c5c37e3777ea049d80bede6296be1398bf8-).

If you are sending from the command line the transaction id will be printed on the screen:

```
contact@instance-1:~/magnet$ ./magnetd sendtoaddress MevjupdQ32rKhTx3  
HaSd14e17Ce9LnUh 10000  
bf552cedf814b23a9a8eca9d98c8ff5cd619e08411f130bfbd90dd5c43d6938
```

VERIFYING THE FUNDS HAVE BEEN RECEIVED

We can now start the daemon again and it should print the message below:

```
./magnetd getbalance  
10000.00000000
```

CONFIGURING THE MASTERNODE

You will need the following information in the next step:

EXTERNAL_IP: Your masternode public IP (if you don't know it simply type the command `curl ipinfo.io/ip` in the shell to get it)

MASTERNODE_PRIVATE_KEY: The key generated with masternode genkey command

TRANSACTION_ID: The transaction id from the funds

Type the following command to edit the masternode configuration file (using vi editor):

```
vi ../magnet/masternode.conf
```

Press **i** to enter insert edit mode and paste the following (edit the line by inserting the information from above):

```
Masternode1 EXTERNAL_IP:17177 MASTERNODE_PRIVATE_KEY TRANSACTION_ID 1
```

Press ESC to exit insert mode, press **:** to bring vi command, press **wq** to save and exit.

FINALIZING THE DAEMON CONFIGURATION

Type the following command to edit magnet configuration file (using vi editor):

```
vi ../magnet/magnet.conf
```

Press **i** to enter insert edit mode and paste the following (edit the lines by inserting the information from above):

```
externalip=EXTERNAL_IP  
masternodeaddr=EXTERNAL_IP:17177  
masternode=1  
masternodeprivkey=MASTERNODE_PRIVATE_KEY  
Press ESC to exit insert mode, press to bring vi command, press to save and exit.
```

STARTING YOUR MASTERNODE

Type the following command to restart your magnet daemon and pick up the configuration changes:

```
./magnetd stop  
Magnet server stopping  
./magnetd  
Magnet server starting
```

Type CTRL + **C** to get back to the command line.

Type the following command to start the masternode:

```
./magnetd masternode start  
successfully started masternode
```

Welcome to Magnet network!