



Rover Coin



# Rover Coin

Hot Cold Wallet Masternode VPS setup Guide

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# 1. Windows cold wallet guide

## - 1.1 Download the latest Rover Windows wallet

<https://github.com/RoverCoin/Rovercoin/files/1789416/Rover-Qt-.Windows.zip>

## - 1.2 How to make your own Rover address

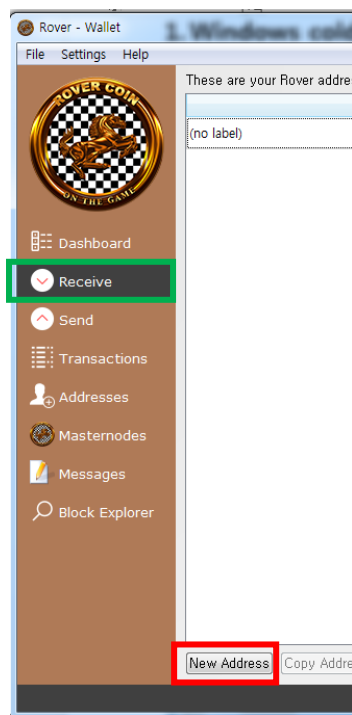


Figure 1

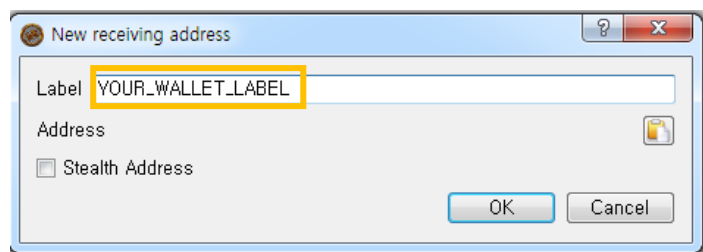


Figure 2

- a) Click the 'Receive' tab (fig 1, green box)
- b) Click the 'New Address' tab (fig 1, red box)
  - Pop-up window (fig 2) will show up
- c) Type in your wallet label and click 'OK' (fig 2, orange box)
- d) Now your new wallet address has created
  - You can copy address by clicking 'Copy Address' tab

## (Optional) How to reveal specific amount of coin for each address

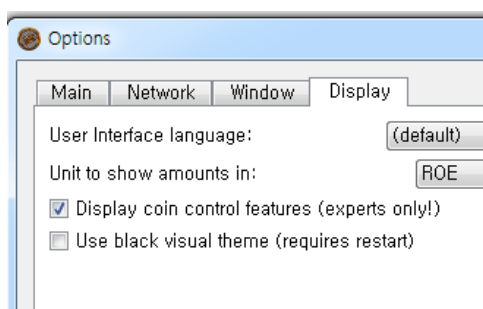


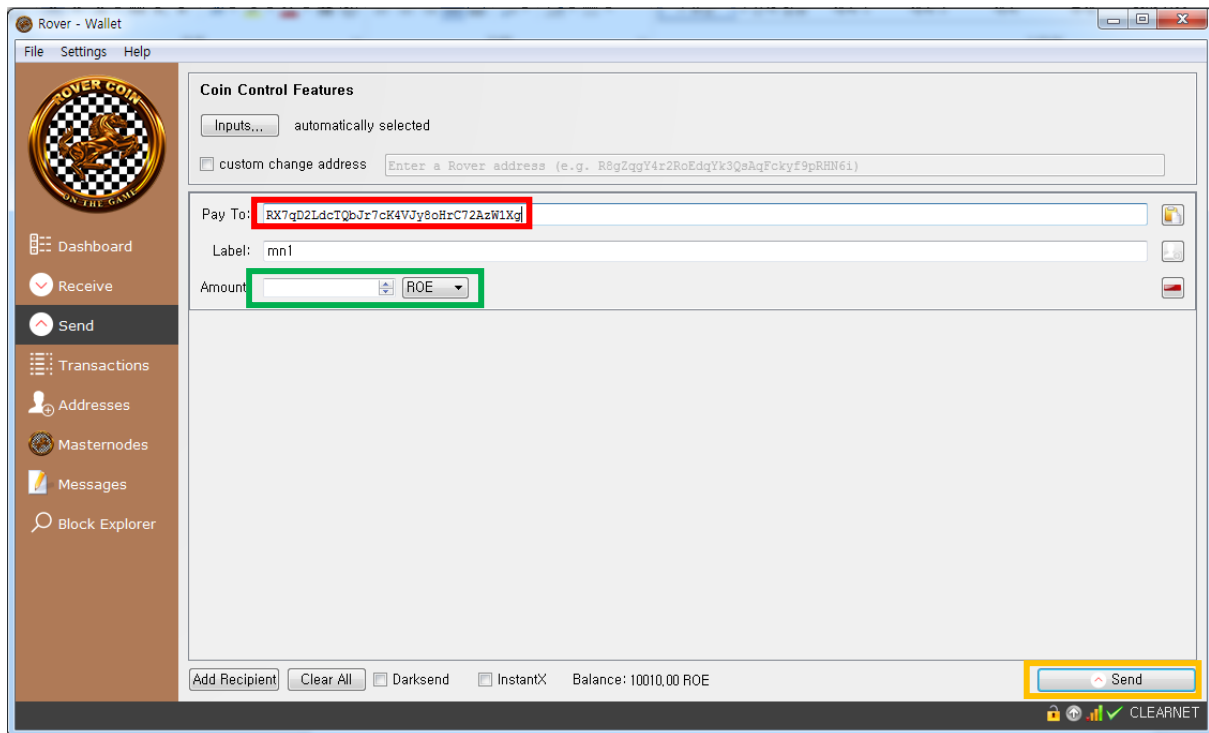
Figure 3

Go to Settings → Options → Display

- a) Check 'Display coin control features'
  - Coin amount will be displayed at 'Send' tab → Inputs



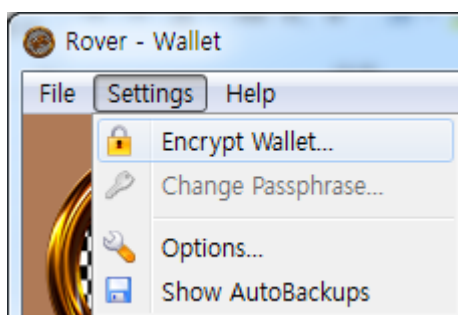
### - 1.3 How to send Rover



**Figure 4**

- Click 'Send' tab
- Type in Receiver's address in 'Pay To' (red box)
- Type in amount of HTK to send (green box)
- Click 'Send' (orange box)

### - 1.4 Encrypting Windows wallet



**Figure 5**

Go to Settings → Encrypt Wallet → Insert password twice  
(Reminder: Never forget or lose your password!)



## 2. Masternode setup guide

- 2.1 Make new address for Masternode (Refer to step 1.2 for guidance)

- 2.2 Send exactly '10000ROE' to address which is made in step 2.1 (Refer to step 1.3 for guidance)

► It will automatically include fee, so you just need to type 10000 at 'Amount'

- 2.3 Get privkey, TxHash and Output index



Go to Help → Debug window

a) Type in 'masternode genkey', (copy & paste the result in notepad)

► `masternode genkey`  
69Nw7ydMgqz8k0 <vLFEwEocB

b) Type in 'masternode outputs', (copy & paste the result in notepad)

► Result shows "TxHash" : "Output index"

Figure 6

► `masternode outputs`  
{  
 "357d8718b121613" : "305b2b14104a4" : "1"  
}

Error: If you get a result like this, it means that there are no wallets containing 1000HTK

► `masternode outputs`  
{  
}

- 2.4 Purchase VPS (Vultr is used for this tutorial, <https://goo.gl/sc1chW>)

Deploy new server → Server type (64 bit OS → Ubuntu 16.04 x64) → Server size (5\$/mon)

→ Type in server host name → Click 'Deploy now'

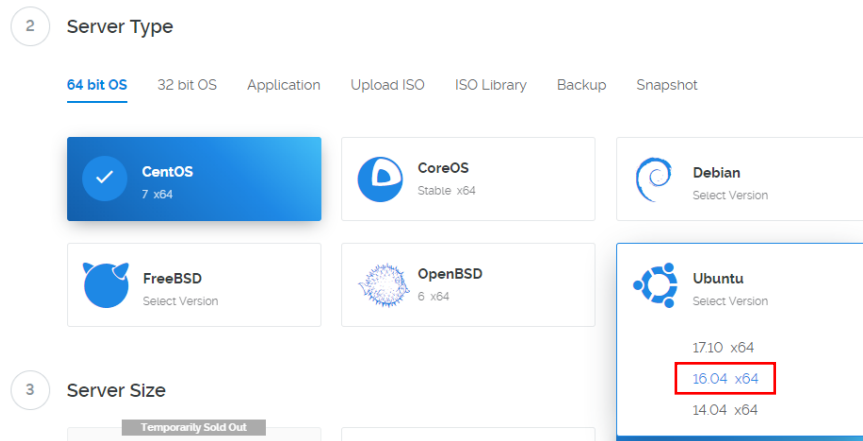


Figure 7

## - 2.5 Download PuTTY from the internet and login to VPS

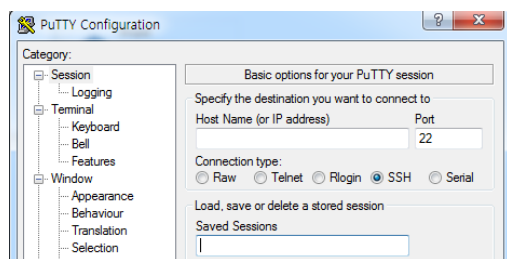


Figure 8

- Type in your VPS IP address (refer step 2.4)
- Click 'open'
- Click 'yes' when PuTTY Security alert pops out
- Type in 'root' at PuTTY window
- Copy password from vultr, right click on the PuTTY
  - Actual password will be hidden

## - 2.6 Install Linux daemon and Masternode at VPS

Copy and paste (right click at PuTTY) the lines below (one by one)

- Memory swap (You can skip this stage if VPS's RAM is enough)

```
sudo touch swap.img  
sudo chmod 600 swap.img  
sudo dd if=/dev/zero of=/mnt/swap.img bs=1024k count=2048  
mkswap /mnt/swap.img  
sudo swapon /mnt/swap.img  
sudo free
```



```
sudo echo "/mnt/swap.img none swap swh1189 0 0" >> /etc/fstab
```

```
cd
```

```
reboot
```

► PuTTY will close automatically. You need to open and login again (refer step 2.5)

b) Install all dependencies

```
sudo apt-get -y update
```

```
sudo apt-get -y upgrade
```

```
sudo apt-get -y dist-upgrade
```

```
sudo add-apt-repository ppa:bitcoin/bitcoin
```

► Hit [Enter] when message show up (do not copy and paste this line!)

```
sudo apt-get -y install nano git && sudo apt-get -y install software-properties-common
```

```
sudo apt-get -y install build-essential libtool autotools-dev pkg-config libssl-dev
```

```
sudo apt-get -y install libboost-all-dev
```

```
sudo apt-get -y install libevent-dev && sudo apt-get -y install libminiupnpc-dev
```

```
sudo apt-get -y install autoconf && sudo apt-get -y install automake
```

```
sudo apt-get -y update && sudo apt-get -y install libdb4.8-dev libdb4.8++-dev
```

```
cd /mnt
```

c) Securing the port

```
sudo apt-get -y install ufw
```

```
ufw allow ssh/tcp
```

```
ufw limit ssh/tcp
```

```
ufw allow 28218/tcp
```

```
ufw allow 28217/tcp
```

```
ufw logging on
```



```
ufw enable
```

```
ufw status
```

d) Download Rover daemon

```
wget https://github.com/RoverCoin/Rovercoin/files/1789429/Roverd-.Linux_Daemon.tar.gz
```

```
tar -xvf Roverd-.Linux_Daemon.tar.gz
```

```
rm Roverd-.Linux_Daemon.tar.gz
```

e) Start daemon, set the server config

```
./Roverd
```

```
./Roverd stop
```

```
cd ~/.Rover && nano Rover.conf
```

► Type the following lines in the Editor (red part should be changed to your own values)

```
rpcuser=RANDOMWORD
rpcpassword=RANDOMWORD(HAVE TO DIFFERENT WITH rpcuser's VALUE)
rpcallowip=127.0.0.1
rpcport=28217
port=28218
listen=1
server=1
daemon=1
bind=SERVERIP
masternode=1
externalip=SERVERIP:28218
masternodeprivkey=PRIVATE KEY(refer 2.3 (a), privkey)
```

► If it's done properly, you should see the following screen (example)





```
root@Rover_tutorial: ~
GNU nano 2.5.3 File: Rover.conf
rpcuser=kim
rpcpassword=kim1
rpcallowip=127.0.0.1
rpcport=28217
port=28218
listen=1
server=1
daemon=1
bind=207.148.106.93
masternode=1
masternodeaddr=207.148.106.93:28218
masternodeprivkey=692m2gH...JYH6i2Xe
```

Figure 9

b) Press CTRL+O → Enter → CTRL+X

c) Start your daemon

```
cd
```

```
./Roverd
```

(Optional) How to check if VPS is working properly

a) Type in the following in PuTTY

```
cd
```

```
./Roverd masternode status
```

```
root@Rover_tutorial:~# ./Roverd masternode status
{
  "vin" : "CTxIn(COutPoint(357d8718b1, 1), scriptSig=)",
  "service" : "207.148.106.93:28218",
  "status" : 9,
  "pubKeyMasternode" : "RWgDB6oe8JVQFr1uMKgyShwAnEJkns4QLb",
  "notCapableReason" : "Could not connect to 207.148.106.93:28218"
}
root@Rover_tutorial:~#
```

Figure 10

► If masternode setup is successful, it will show "status" : 9

b) Checking block height of VPS

```
./Roverd getblockcount
```

► Compare the block height of VPS and windows wallet

```
root@Rover_tutorial:~# ./Roverd getblockcount
1377
root@Rover_tutorial:~#
```

Figure 11



## - 2.7 Setup the Masternode at Windows cold wallet

### a) Create Masternode

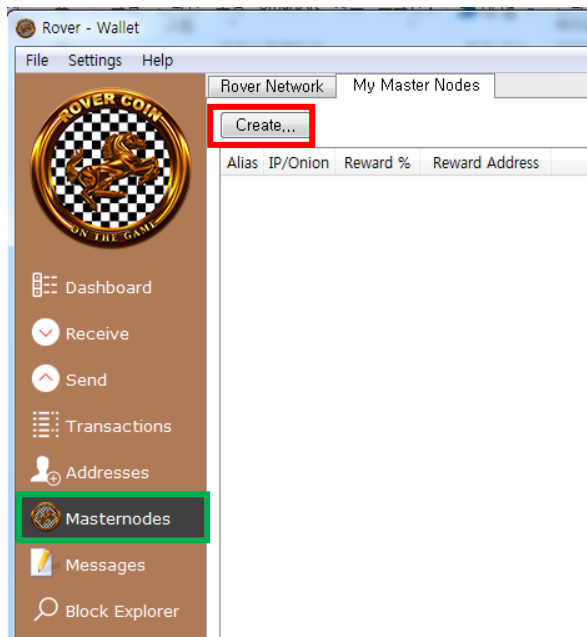


Figure 12

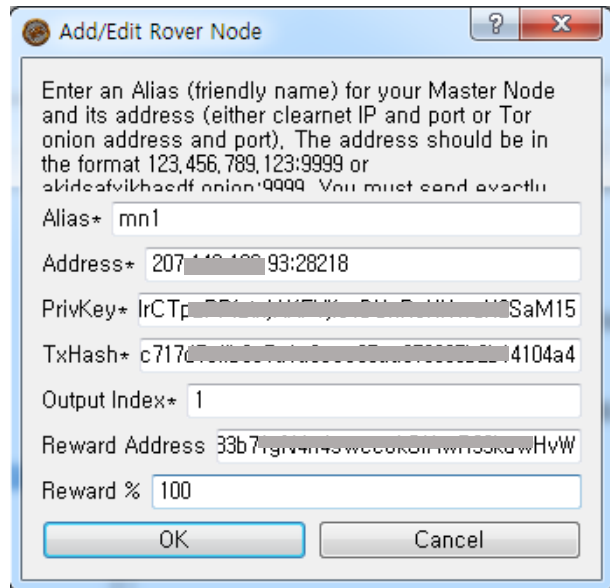


Figure 13

a) Click 'Masternodes' tab (fig12, green box)

b) Click 'Create' tab (fig 12, red box)

► Pop-up window(fig 13) will show up

c) Type in the boxes and click 'OK' (red part should be changed to your own values)

Alias : **YOUR\_MN\_NAME**

Address : **YOUR\_IP:28218**

PrivKey : **PRIVATE KEY**(refer 2.3 (a), privkey)

TxHash : **TxHash** (refer 2.3 (b), TxHash)

Output Index : **0 or 1** (refer 2.3 (b) Output Index)

Reward Address : **Masternode address** (refer step 2.1)

Reward % : 100



e) Click your Masternode and click 'Start' button below (Unlock the wallet first, if it's encrypted)

► Once you see the following pop-up window, Masternode setup is finished!

