



Rover Coin

Hot Cold Wallet Masternode VPS setup Guide

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Contents

1. Windows cold wallet guide.....	3
1.1 Download the latest Rover windows wallet.....	3
1.2 How to make your own Rover address.....	3
(Optional) How to reveal specific amount of coin for each address & Masternode tab.....	3
1.3 How to send Rover.....	4
1.4 Encrypting Windows wallet.....	4
2. Masternode setup guide.....	4
2.1 Make new address for Masternode.....	5
2.2 Send exactly '10000ROE' to address which is made in step 2.1.....	5
2.3 Get privkey, TxHash and Output index.....	5
2.4 Purchase VPS from vultr (https://goo.gl/sc1chW).....	5
2.5 Download PuTTY from the internet and login to VPS.....	6
2.6 Install Linux daemon and Masternode at VPS.....	6
(Optional) How to check if VPS is working properly.....	9
2.7 Setup the Masternode at windows wallet.....	10



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

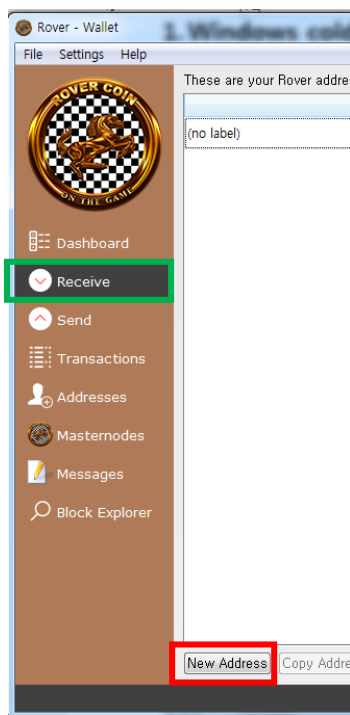


Figure 1

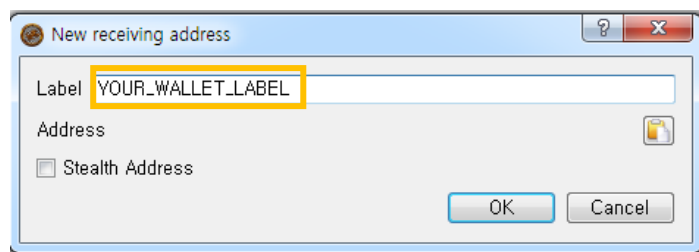


Figure 2

- 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

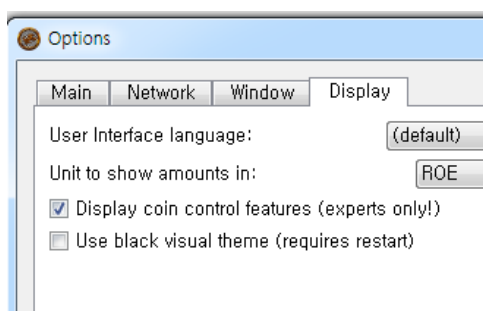


Figure 3

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

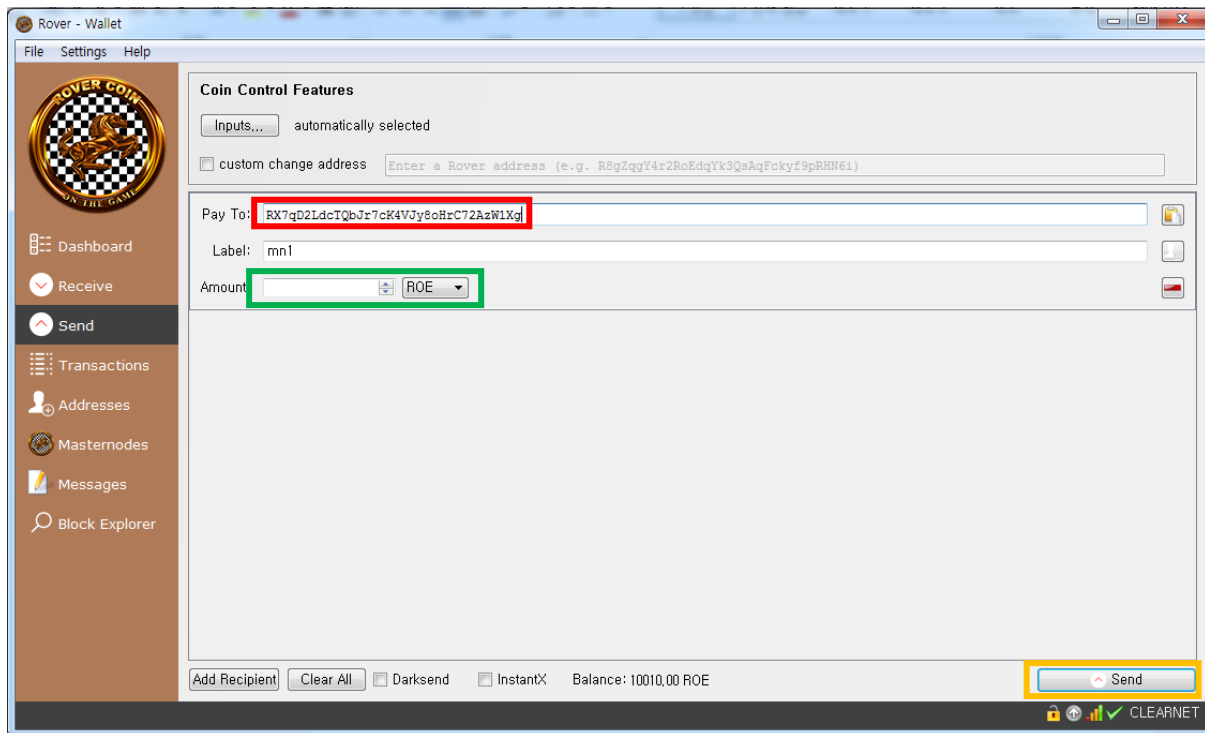
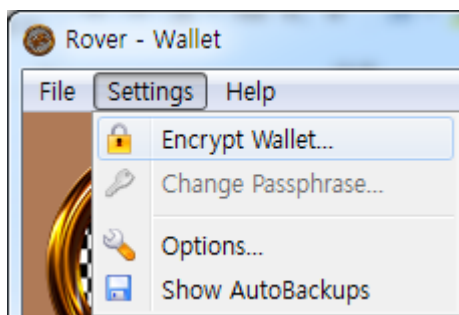


Figure 4

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

- 1.4 Encrypting Windows wallet



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

Figure 5



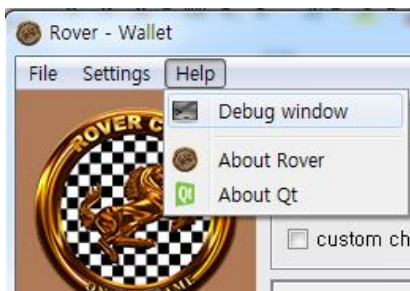
2. Masternode setup guide

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

- 2.2 Send exactly '1000ROE' 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
69Nw7ydMgqz8ko <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'

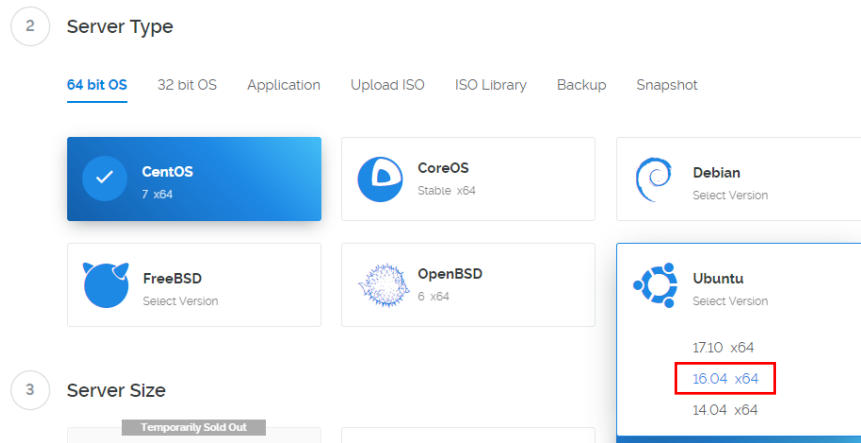


Figure 7

- 2.5 Download PuTTY from the internet and login to VPS

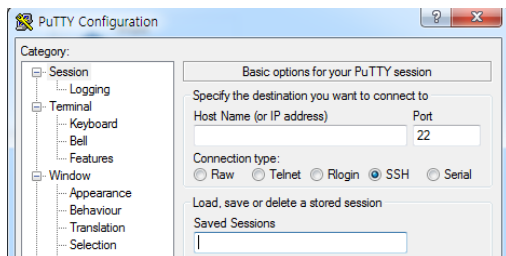


Figure 8

- a) Type in your VPS IP address (refer step 2.4)
- b) Click 'open'
- c) Click 'yes' when PuTTY Security alert pops out
- d) Type in 'root' at PuTTY window
- e) 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)

- a) 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
```

```
cd
```

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" : "RWgDB6oe8JVQFriuMKgyShwAnEJkns4QLb",  
  "notCapableReason" : "Could not connect to 207.148.106.93:28218"  
}
```

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

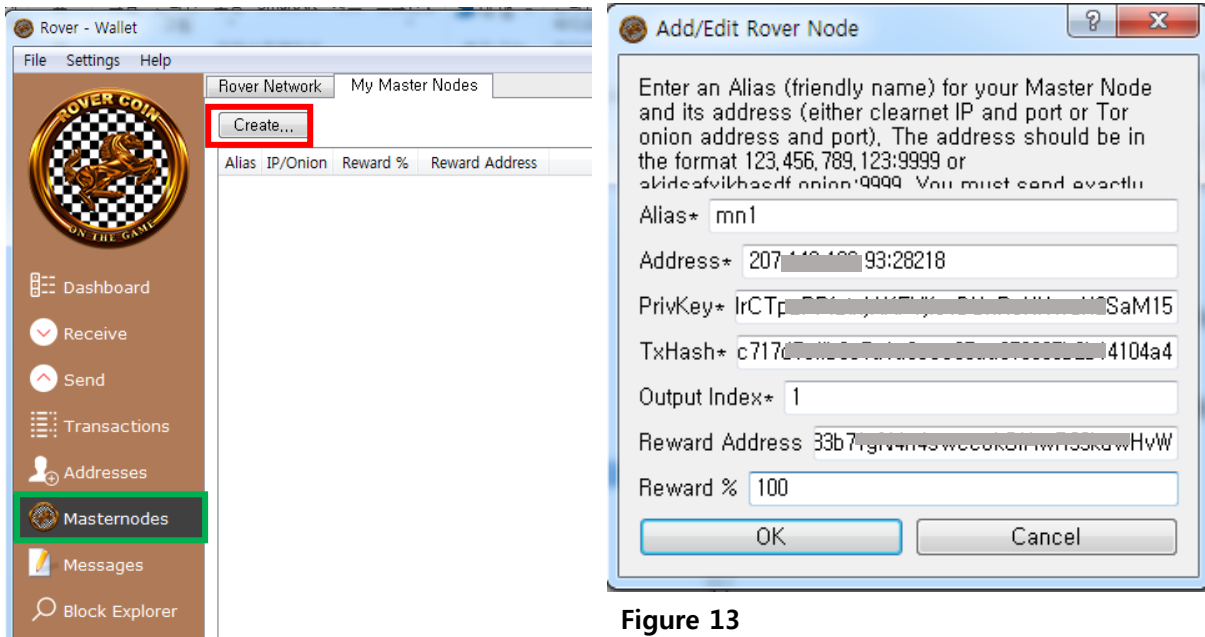


Figure 12

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!

