



TERRACOIN

**COMPREHENSIVE MASTERNODE
TUTORIAL FOR WINDOWS USERS**



This tutorial is intended for anyone who would like to run Terracoin (TRC) masternode on Microsoft Windows system. The tutorial will lead you step by step, so you should not worry about the process.

Prerequisites:

- Computer capable to run 24/7 or VPS.
- Dedicated external IP address.
- Open port 13333 in firewall.
- 5000 Terracoin (TRC).
- The latest and synchronized Terracoin wallet.

How to fulfill the prerequisites:

The computer:

To run the masternode, you need computer which is capable to run 24/7. This computer also needs stable and constant internet connection. If you have some old computer and you are not bothered by the noise, go ahead and setup the masternode on this computer. However, if don't have such device, do not worry, you can order VPS. VPS (Virtual private server) is a computer which you can rent and control from your own computer.

I personally use and have great experience with VPS hosted at <http://contabo.com>, however, you can freely choose whatever suits you the best, just google for Windows VPS.

The dedicated external IP address:

Once you prepare your computer, you have to make sure it is connected through dedicated external IP address. Dedicated IP address is unique for your single hosting account. To make sure your IP address is dedicated, contact your internet provider.

In case you decided to order a VPS, your IP address is dedicated.

Open port 13333 in firewall.

All the masternodes communicate through only one port, this also means, that one computer is limited to only one masternode. This is logical, because masternodes are used to shuffle transactions and make them untraceable – more IP addresses equals more decentralization. To check if your port is open, go to this [website](#) and write 13333 into port to check. In case you get error, you have to open the port, which is truly easy:

1. Go to control panel
2. System and Security
3. Windows Firewall

4. Advanced settings
5. Inbound rules
6. New rule
7. Port -> next
8. TCP, Specific local port – here you write 13333 -> next
9. Allow the connection -> next
10. Rule applies to Domain, Private and Public -> next
11. Give the rule some name and finish

Your port 13333 is now open and you can check it again on the same [website](#).

5000 Terracoin (TRC)

You can buy Terracoin (TRC) on many cryptocurrency exchanges, in the moment of writing, Terracoin is traded at 6 exchanges: [Cryptopia](#), [C-CEX](#), [Coinexchange](#), [Novaexchange](#), [Coingather](#) and [Tradesatoshi](#). The up to date list can be found [here](#). Buy one extra coin more to cover transaction fees.

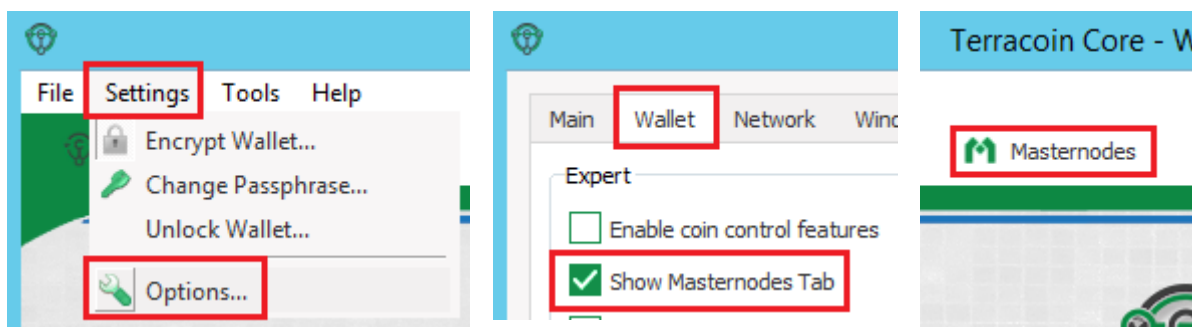
The latest and synchronized wallet

To control masternodes, you have to download the latest Terracoin wallet. The latest version to be downloaded is always at [Github](#). The wallet file with graphical interface is called **terracoin-qt.exe**. Open the file and let the wallet synchronize. This will take some time, depending on your internet connection, so keep calm.

MASTERNODE SETUP

Step 1 – Allow masternode tab:

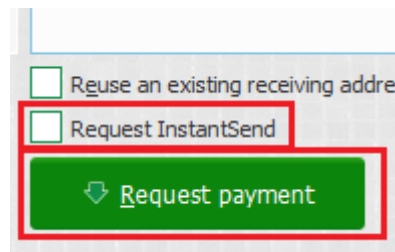
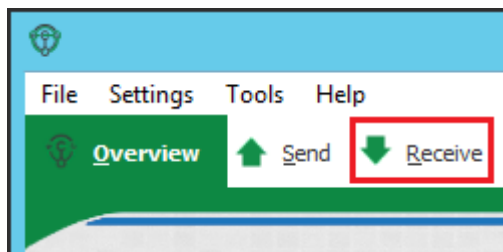
Open your wallet and go to Settings -> Options -> Wallet -> Enable Show Masternodes Tab and restart the wallet. Masternodes tab will appear in your wallet:



*All the following generated addresses and keys in this tutorial are random and not associated to any account. They are provided for illustration purposes only, use your own generated addresses and keys instead.

Step 2 – Send money to wallet:

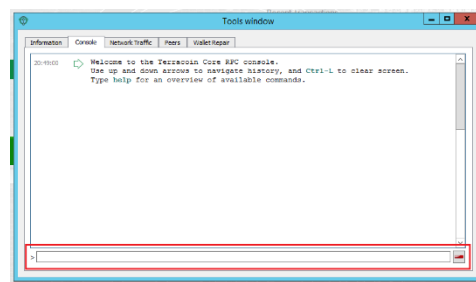
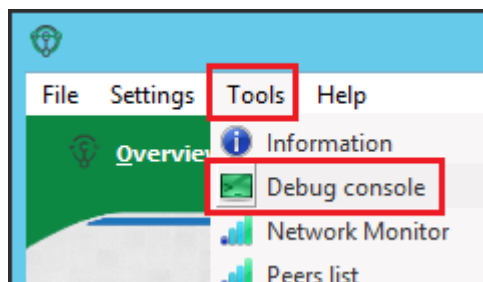
Go to Receive -> Unclick Receive InstantSend -> Request payment -> Copy Address and send 5001 Terracoin (TRC) to this address:



Step 3 – Open console:

Once you have 5001 TRC in your wallet, you can open your console, which will be used to setup the masternode.

Go to tools -> Debug console:



New window pops up and from now on we will work in commands.

Step 4 – Create zero wallet:

Write:

```
getaccountaddress 0
```

```
← getaccountaddress 0
```

```
→ 2U7g85QaPFev7CLQ7mCqfyXNAqhuYV7z6r
```

Step 5 – Create transaction of 5000 TRC to the zero wallet:

Write:

```
sendtoaddress 2U7g85QaPFev7CLQ7mCqfyXNAqhuYV7z6r 5000
```

```
sendtoaddress 2U7g85QaPFev7CLQ7mCqfyXNAqhuYV7z6r 5000
```

```
7BGwz6RvyTkyz4765P2aAVjqRTjnKrkJjLB9TYHgS6PjWdHz3hG7i
```

where the second part of the command is the address you have created in the Step 4.

Step 6 – Generate private key

Write:

```
masternode genkey
```

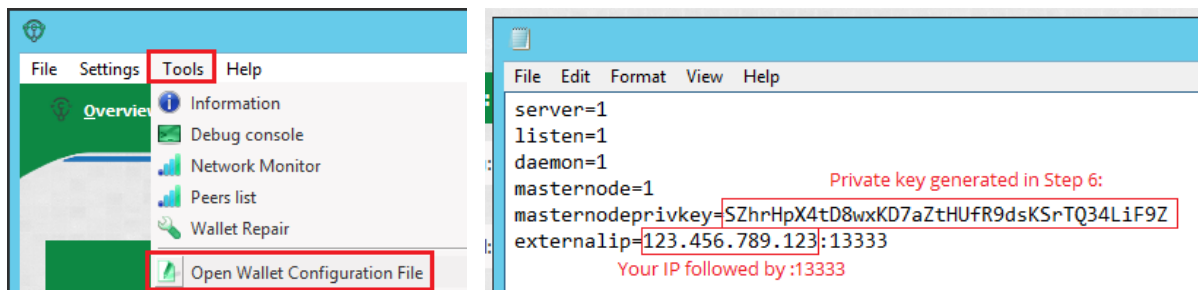
```
masternode genkey
```

```
SZhrHpX4tD8wxKD7aZtHUfR9dsKSrTQ34LiF9Z
```

Step 7 – Edit Terracoin Configuration File

Minimize the debug console and go back to your wallet -> tools -> Open Wallet

Configuration File, find your dedicated external IP at [Whatismyip](#) and note it somewhere:



Insert this into the terracoin.conf, save and close the file:

```
server=1
listen=1
daemon=1
masternode=1
masternodeprivkey=SZhrHpX4tD8wxKD7aZtHUfR9dsKSrTQ34LiF9Z
externalip=123.456.789.123:13333
```

masternodeprivkey is private key generated in Step 6

externalip is your IP which you found at [Whatismyip](#) followed by :13333.

Step 8 – Find Transaction Output Index:

In console, write:

masternode outputs

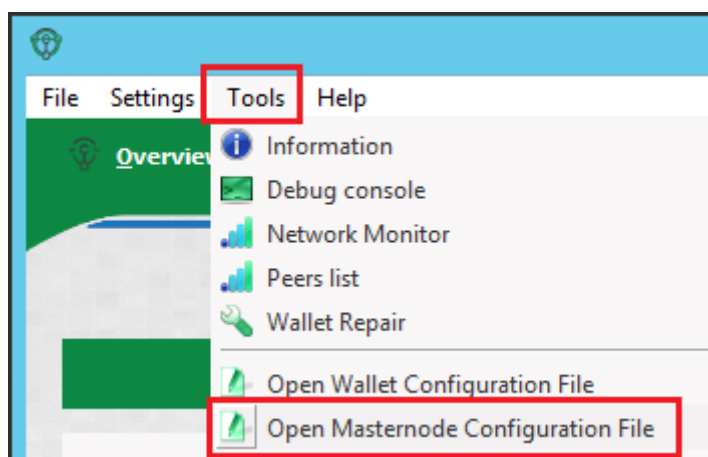
```

masternode outputs
{
  "7BGwz6RvyTkyz4765P2aAVjqRTjnKrkJjLB9TYHgS6PjWdHz3hG7i" : "1"
}
  
```

Note the last figure, which is the output index.

Step 9 – Edit Masternode Configuration File

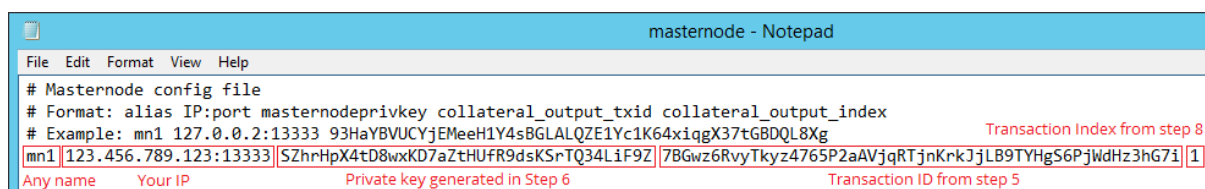
Minimize the debug console and go back to your wallet -> tools -> Open Masternode Configuration File:



Insert this into the masternode.conf, save and close the file:

```

mn1 123.456.789.123:13333 SZhrHpX4tD8wxKD7aZtHUfR9dsKSrTQ34LiF9Z
7BGwz6RvyTkyz4765P2aAVjqRTjnKrkJjLB9TYHgS6PjWdHz3hG7i 1
  
```



mn1 is the name of your masternode

123.456.789.123:13333 is your IP

SZhrHpX4tD8wxKD7aZtHUfR9dsKSrTQ34LiF9Z is private key generated in step 6

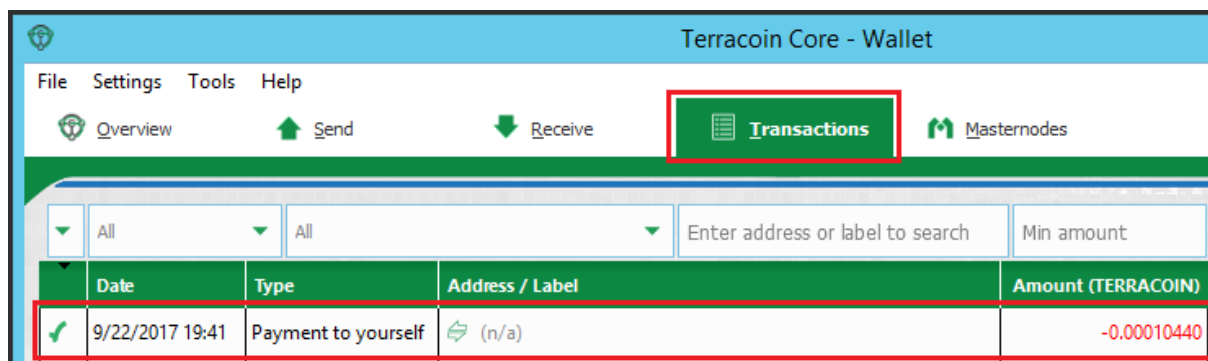
7BGwz6RvyTkyz4765P2aAVjqRTjnKrkJjLB9TYHgS6PjWdHz3hG7i is transaction ID from step 5

1 in the end is Transaction index from step 8

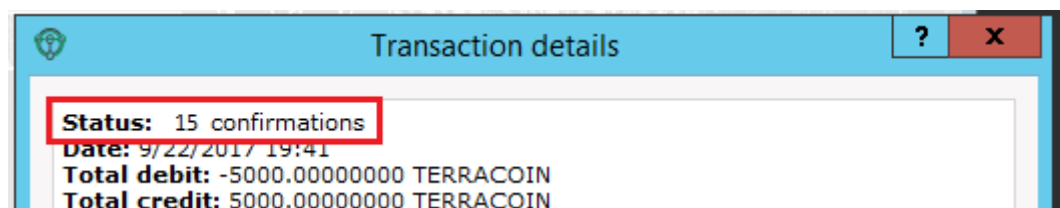
Once you save and close both configuration files, restart the wallet.

Step 10 – Check transaction confirmation

Minimize the debug console and go back to your wallet -> Transactions -> Double click the most recent transaction (you made it in Step 2) or right click and Show transaction details:



In the transaction details, check, that it received at least 15 confirmations. In case this is lower, wait until it reaches 15:



Step 11 – Start the masternode

Finally, you are ready to start the masternode. If you followed the steps correctly, everything is pre-configured and you are good to go. Go back to your console and write:

masternode start-all

```

< ↩️ masternode start-all
> ➡️ {
  "overall" : "Successfully started 1 masternodes, failed to
start 0, total 1",
  "detail" : {
    "status" : {
      "alias" : "mnl",
      "result" : "successful"
    }
  }
}

```

If you followed the steps correctly, you will receive successful result and your masternode is now running. In case you receive error, go through the steps again. If the problem insists, ask for help at any channel run by Terracoin [here](#).



Step 12 – Wait for earned coins

The payout time depends on the amount of masternodes currently running, you can check this under masternodes tab -> All masternodes.

To check the masternode status, write in console:

```
masternode status
```

To check the state of your masternode, either go to masternodes tab or write into console:

```
masternode list-conf
```

```
← masternode list-conf
→ {
  "masternode": {
    "alias": "mn1",
    "address": "123.456.789.123:13333",
    "privateKey": "SZhrHpX4tD8wxKD7aZtHUfR9dsKSrTQ34LiF9Z",
    "txHash": "7BGwz6RvyTkyz4765P2aAVjqRTjnKrkJjLB9TYHgS6PjWdHz3hG7i"
  },
  "outputIndex": "1",
  "status": "ENABLED"
}
```

Once you start your masternode, it will first become PRE-ENABLED, don't worry about it, come back later and it will say ENABLED, in that moment, everything is finished and you can just enjoy your payouts.

I truly hope I helped you to set up your masternode and wish you great rewards.

In case you found this tutorial helpful, why don't you invite me for a beer?

Terracoin wallet address:

137TCW1gMqnLn1QUz1e5gwiYKwaZoSheyj

Bitcoin wallet address:

1HTW5SEdVkfAbcMVD3KjgjPD6rg26ibbUP

ETH wallet address:

0xeb2c5b03c422b2c62a8b150be833cddeb23e2873