

## Tutorial - Install masternode on Ubuntu Server

Open your Windows wallet.

Go to Tools -> Debug console.

Type the following RPC command, to create an address for the masternode fee:

`getnewaddress`

Example output

`TRPLV4dXmEFMSgXg2Xu6skN9pmw8TAo4N5`

Go back to your wallet overview.

Press on the toolbar button "Send".

Enter the address from the RPC command "getnewaddress" behind the text "Pay To:".  
(Example: **TRPLV4dXmEFMSgXg2Xu6skN9pmw8TAo4N5**)

Enter the following amount of coins behind the text "Amount:": **5**

Press on the button "Send".

Wait until the transaction is confirmed by **6** blocks.

Go back to the console of your wallet.

Type the following RPC command, to create an address for the masternode collateral:

`getnewaddress`

Example output

`TFi68ygQkc8h27DyeBwPykVHjF6oh8PGkH`

Go back to your wallet overview.

Press on the toolbar button "Send".

Enter the address from the RPC command "getnewaddress" behind the text "Pay To:".  
(Example: **TFi68ygQkc8h27DyeBwPykVHjF6oh8PGkH**)

Enter the following amount of coins behind the text "Amount:": **40000**

Press on the button "Send".

Wait until the transaction is confirmed by **15** blocks.

Go back to the console of your wallet.

Identify the transaction with the following RPC command:

`masternode outputs`

Example output

```
{  
  "fdab9dff1ff9caf5d291905ad43b9f7d69775189d4d22cb085d7fedd94ea1c6a": "0"  
}
```

Generate a BLS key pair with the the following RPC command:

`bls generate`

Example output

```
{  
  "secret": "0acbf6f183d0c9b794b9bc0dba25f8a1a1eca21aa4f2e4a86ecd3120a59efb35",  
  "public":  
    "064bb1741f4707cfe3629176857c41e0d23cbe751061fe5d0d67b506db10c8f3f6f2b684c3cec8e4  
    a128193a001d12e9"  
}
```

Type the following RPC command, to create an address for the owner of the masternode:

`getnewaddress`

Example output

`TWXGVYPHGA4gWcZ9Zp2qnubFVNagvorwEN`

Type the following RPC command, to create an address for used for proposal voting:

`getnewaddress`

Example output

`TSsrnbtJGYD1WmVsrsvauuwxibJyqkkqqL`

Type the following RPC command, to create an address to receive the masternode reward:

`getnewaddress`

Example output

`TEXj9AgdCh1giGmr1BXpYsngmkMkthNngD`

Prepare the ProRegTx transaction by modifying the following line.

```
protx register_prepare
fdab9dff1ff9caf5d291905ad43b9f7d69775189d4d22cb085d7fedd94ea1c6a 0
203.0.113.53:18070 TWXGVYPHGA4gWcZ9Zp2qnubFVNagvorwEN
064bb1741f4707cfe3629176857c41e0d23cbe751061fe5d0d67b506db10c8f3f6f2b684c3cec8e4a
128193a001d12e9 TSsrnbtJGYD1WmVsrsvauuwxibJyqkkqL 0
TEXj9AgdCh1giGmr1BXpYsngmkMkthNngD TRPLV4dXmEFMSgXg2Xu6skN9pmw8TAo4N5
```

**fdab9dff1ff9caf5d291905ad43b9f7d69775189d4d22cb085d7fedd94ea1c6a** - Transaction id from the RPC command “masternode outputs”.

**0** - Single digit from the RPC command “masternode outputs”.

**203.0.113.53:18070** - External IPv4 address of your VPS.

**TWXGVYPHGA4gWcZ9Zp2qnubFVNagvorwEN** - Address of the owner of the masternode.

**064bb1741f4707cfe3629176857c41e0d23cbe751061fe5d0d67b506db10c8f3f6f2b684c3cec8e4a128193a001d12e9** - “public” value from the RPC command “bls generate”.

**TSsrnbtJGYD1WmVsrsvauuwxibJyqkkqL** - Address used for proposal voting.

**TEXj9AgdCh1giGmr1BXpYsngmkMkthNngD** - Address to receive the masternode reward.

**TRPLV4dXmEFMSgXg2Xu6skN9pmw8TAo4N5** - Address to where you send the masternode amount fee.

Paste the modified line into your console.

## Example output

```
{
  "tx":
    "0300010001a55ee8d6ad1d5c1409a5328f4e53e80e3e7c83cf85253594141505fa64c5eeec000000
    0000feffffff0121dfff505000000001976a9144f18fd993c0f9458fafb4985536dd358e9899a9f88a
    c00000000d10100000000006a1cea94ddfed785b02cd2d4895177697d9f3bd45a9091d2f5caf91fff
    9dabfd0000000000000000000000000000ffff88909c3714c4e172bd9c230db9cac3e446945cff2ea
    6720c2eca064bb1741f4707cfe3629176857c41e0d23cbe751061fe5d0d67b506db10c8f3f6f2b684
    c3cec8e4a128193a001d12e9b9772f1f7b0af05a67883806a4f60ddde4ecbf9e00001976a9143206f
    92dd6acc1a481cbb88fcadc19d0507bcb7d88ac0c5537044361500975adba10f9299f684f62a7f544
    e8e671638fee2c3914349f00",
  "collateralAddress": "TRPLV4dXmEFMSgXg2Xu6skN9pmw8TAo4N5",
  "signMessage":
    "TEXj9AgdCh1giGmr1BXpYsngmkMkthNngD|0|TWXGVYPHGA4gWcZ9Zp2qnubFVNagvorwEN|TSsrnbtJ
    GYD1WmVsrsvauuwxiBjYqkkqQL|ac19e80b02d4e8a27feb42073114070a281a2b788ba064803e8064
    d259b22ebc"
}
```

Sign the ProRegTx transaction by modifying the following line.

```
signmessage "TRPLV4dXmEFMSgXg2Xu6skN9pmw8TAo4N5"
"TEXj9AgdCh1giGmr1BXpYsngmkMkthNngD|0|TWXGVYPHGA4gWcZ9Zp2qnubFVNagvorwEN|TSsrnbtJ
GYD1WmVsrsvauuwxiBjYqkkqQL|ac19e80b02d4e8a27feb42073114070a281a2b788ba064803e8064
d259b22ebc"
```

**TRPLV4dXmEFMSgXg2Xu6skN9pmw8TAo4N5** - “collateralAddress” value from the RPC command “protx register\_prepare”.

**TEXj9AgdCh1giGmr1BXpYsngmkMkthNngD|0|TWXGVYPHGA4gWcZ9Zp2qnubFVNagvorwEN|TSsrnbtJGYD1WmVsrsvauuwxiBjYqkkqQL|ac19e80b02d4e8a27feb42073114070a281a2b788ba064803e8064d259b22ebc** - “signMessage” value from the RPC command “protx register\_prepare”.

Paste the modified line into the console of your wallet.

## Example output

```
H/d9tkCSzqdYh8qLL1c+KDI1rb4vtFSfdxd88XDc3U/hRZ61MuAR8TULy7vh1YXGk6AYFFV1xyPNuEdZVMN9S
dI=
```

Submit the ProRegTx transaction by modifying the following line.

```
protx register_submit
0300010001a55ee8d6ad1d5c1409a5328f4e53e80e3e7c83cf85253594141505fa64c5eeec0000000
000fefffff0121dff505000000001976a9144f18fd993c0f9458fafb4985536dd358e9899a9f88ac
00000000d101000000000006a1cea94ddfed785b02cd2d4895177697d9f3bd45a9091d2f5caf91fff9
dabfd0000000000000000000000000ffff88909c3714c4e172bd9c230db9cac3e446945cff2ea6
720c2eca064bb1741f4707cfe3629176857c41e0d23cbe751061fe5d0d67b506db10c8f3f6f2b684c
3cec8e4a128193a001d12e9b9772f1f7b0af05a67883806a4f60ddde4ecbf9e00001976a9143206f9
2dd6acc1a481cbb88fcadc19d0507bcb7d88ac0c5537044361500975adba10f9299f684f62a7f544e
8e671638fee2c3914349f00
H/d9tkCSzqdYh8qLL1c+KDIlrb4vtFSfdxd88XDc3U/hRZ6lMuAR8TULy7vh1YXGk6AYFFV1xyPNuEdZV
MN9SdI=
```

**0300010001a55ee8d6ad1d5c1409a5328f4e53e80e3e7c83cf85253594141505fa64c5eeec0000000000fefffff0121dff505000000001976a9144f18fd993c0f9458fafb4985536dd358e9899a9f88ac00000000d101000000000006a1cea94ddfed785b02cd2d4895177697d9f3bd45a9091d2f5caf91fff9dabfd0000000000000000000000000ffff88909c3714c4e172bd9c230db9cac3e446945cff2ea6720c2eca064bb1741f4707cfe3629176857c41e0d23cbe751061fe5d0d67b506db10c8f3f6f2b684c3cec8e4a128193a001d12e9b9772f1f7b0af05a67883806a4f60ddde4ecbf9e00001976a9143206f92dd6acc1a481cbb88fcadc19d0507bcb7d88ac0c5537044361500975adba10f9299f684f62a7f544e8e671638fee2c3914349f00** - “tx” value from the RPC command “protx register\_prepare”.

**H/d9tkCSzqdYh8qLL1c+KDIlrb4vtFSfdxd88XDc3U/hRZ6lMuAR8TULy7vh1YXGk6AYFFV1xyPNuEdZVMN9SdI=** - Output from the RPC command “signmessage”.

Paste the modified line into the console of your wallet.

Example output

```
7da2e1187202a1a497beca05e0e53a6e4df0dc06046f72fbf8b61c942db2982a
```

Open [putty](#) and connect using SSH with your Ubuntu server.

Update your Ubuntu server with the following command:

```
sudo apt-get update && sudo apt-get upgrade -y
```

Type the following command to go back to your home directory:

```
cd $HOME
```

Download the Linux daemon for your wallet with the following command:

```
wget  
"https://github.com/NeonXGit/masternode/releases/download/  
mn/neonx-daemon-linux.tar.gz" -O neonx-daemon-linux.tar.gz
```

Extract the tar file with the following command:

```
tar -xzvf neonx-daemon-linux.tar.gz
```

Download the Linux tools for your wallet with the following command:

```
wget  
"https://github.com/NeonXGit/masternode/releases/download/  
mn/neonx-daemon-linux.tar.gz" -O neonx-qt-linux.tar.gz
```

Extract the tar file with the following command:

```
tar -xzvf neonx-qt-linux.tar.gz
```

Type the following command to install the daemon and tools for your wallet:

```
sudo mv neonxd neonx-cli neonx-tx /usr/bin/
```

Create the data directory for your coin with the following command:

```
mkdir $HOME/.neonx
```

Open nano.

```
nano $HOME/.neonx/neonx.conf -t
```

Paste the following into nano.

```
rpcuser=rpc_neonx
rpcpassword= Make up your own password
rpcbind=127.0.0.1
rpcallowip=127.0.0.1
listen=1
server=1
daemon=1
maxconnections=125
masternode=1
masternodeblsprivkey=0acbf6f183d0c9b794b9bc0dba25f8a1a1eca
21aa4f2e4a86ecd3120a59efb35
externalip=24.241.162.421
```

**24.241.162.421** - External IPv4 address of your VPS.

**0acbf6f183d0c9b794b9bc0dba25f8a1a1eca21aa4f2e4a86ecd3120a59efb35** - “secret” value from the RPC command “bls generate”.

Save the file with the keyboard shortcut **Ctrl + S**.

Type the following command to start your masternode:

```
neonxd
```