

DIP3 Masternode Setup

V 1.0.0



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I) Requirements:

- 100001 WDF (100001 WDF for the collateral and 1 WDF for TX fees)
- VPS with root access running **Ubuntu 18.04**
- New BLS keypair per MN (run bls generate in your controller wallet console. Keep a private note of the BLS keypair, you can not recover these from the wallet later)

II) Installation on VPS:

- Login to your VPS
- Run this commands:
 - wget <https://github.com/Wildfire-new/Wildfire-MN-POW/releases/download/1.0.0/wildfire-daemon-linux.tar.gz>
 - wget <https://github.com/Wildfire-new/Wildfire-MN-POW/releases/download/1.0.0/wildfire-qt-linux.tar.gz>
 - tar -xzvf wildfire-daemon-linux.tar.gz
 - tar -xzvf wildfire-qt-linux.tar.gz
 - rm -rf wildfire-daemon-linux.tar.gz
 - rm -rf wildfire-qt-linux.tar.gz
 - chmod +x wildfired
 - chmod +x wildfire-cli
- Install the daemon and tools:
 - sudo mv wildfired wildfire-cli wildfire-tx /usr/bin/
 - sudo cp wildfired wildfire-cli /usr/bin
- Create the config file:
 - mkdir \$root/.wildfire
 - nano \$root/.wildfire/wildfire.conf

- Paste the following lines in wildfire.conf

```
#----
rpcuser=rpc_wildfirecoin
rpcpassword=kuwXX05sqio7bcrwe5zh678edv17xws1lw6xpd1qf33
rpcallowip=127.0.0.1
#----
listen=1
server=1
daemon=1
maxconnections=64
#----
#masternode=1
#masternodeblsprivkey= REPLACE_WITH_YOUR_BLS_PRIV_KEY
#externalip=REPLACE_WITH_EXTERNAL_IP_OF_VPS
#----
```

- Replace the text “REPLACE_WITH_EXTERNAL_IP_OF_VPS” with the external IP address of your VPS E.G. externalip=123.144.158.901.
- Replace the text “ REPLACE_WITH_YOUR_BLS_PRIV_KEY ” with the masternode bls pairkey to do that go to debug console on your local wallet and enter *bls generate*.

Example output:

```
{
  "secret":
  "0acbf6f183d0c9b794b9bc0dba25f8a1a1eca21aa4f2e4a86ecd3120a59efb35",
  "public":
  "064bb1741f4707cfe3629176857c41e0d23cbe751061fe5d0d67b506db10c8f3f6f2b6
  84c3cec8e4a128193a001d12e9"
}
```

Place the secret key in the config file of your masternode and uncomment the values “masternodeblsprivkey”. We need the public key for another step! Please save it in a text file!

Save your wildfire.conf file and exit the editor.

- Start your node with the following command:
 - wildfired

- Wait until the command “mnsync status” returns the status “MASTERNODE_SYNC_FINISHED”
 - wildfire-cli mnsync status

Example output

```
{  
  "AssetID": 999,  
  "AssetName": "MASTERNODE_SYNC_FINISHED",  
  "AssetStartTime": 1558596597,  
  "Attempt": 0,  
  "IsBlockchainSynced": true,  
  "IsSynced": true,  
  "IsFailed": false  
}
```

III) Setup in controller wallet:

- Open your Wildfire wallet and wait until your wallet has downloaded the complete blockchain.
- Navigate to your console via Tools -> Debug console
- Generate two new addresses
 - Enter getnewaddress “label” (example: getnewaddress MN1)
 - Enter getnewaddress “label” (example: getnewaddress MN1-owner)
- Send exactly 100000 WDF to the first address and wait until the transaction has 15 confirmations.
- Run *masternode outputs* in the console and note the respective TX-ID and TX-Index for the steps below.

IV) Register your Masternode on Blockchain:

Next you need to prepare the MN to be registered on chain using the template below (replace the red variables with your data and past the line on the console):

```
protx register_prepare collateralHash collateralIndex ipAndPort  
ownerKeyAddr operatorPubKey votingKeyAddr operatorReward  
payoutAddress feeSourceAddress
```

- collateralHash = TX-ID of the transaction containing the 100000 WDF
- collateralIndex = TX-Index of the transaction containing the 100000 WDF
- ipAndPort = IP and p2p port (IPv4: 153.119.122.32: 25572)
- ownerKeyAddr = The second new address generated
- operatorPubKey = Public Key from BLS keypair
- votingKeyAddr = The second new address generated
- operatorReward = 0
- payoutAddress = Your MN address or a new one you want to receive the rewards
- feeSourceAddress = An address in your wallet with few WDF for TX fees

If the command was executed successfully the wallet will respond with 3 strings containing "tx", "collateralAddress", "signMessage"

Example output

```
{  
  "tx":  
  "0300010001a55ee8d6ad1d5c1409a5328f4e53e80e3e7c83cf85253594141505fa64c5ecec00  
00000000feffffff0121dff505000000001976a9144f18fd993c0f9458fafb4985536dd358e9899a  
9f88ac00000000d10100000000006a1cea94ddfed785b02cd2d4895177697d9f3bd45a9091d2  
f5caf91fff9dabfd00000000000000000000000000000000ffff88909c3714c4e172bd9c230db9cac3e  
446945cff2ea6720c2eca064bb1741f4707cfe3629176857c41e0d23cbe751061fe5d0d67b506  
db10c8f3f6f2b684c3cec8e4a128193a001d12e9b9772f1f7b0af05a67883806a4f60ddde4ecbf  
9e00001976a9143206f92dd6acc1a481cbb88fcadc19d0507bcb7d88ac0c5537044361500975  
adba10f9299f684f62a7f544e8e671638fee2c3914349f00",  
  "collateralAddress": "TRPLV4dXmEFMSgXg2Xu6skN9pmw8TAo4N5",  
  "signMessage":  
  "TEXj9AgdCh1giGmr1BXpYsngmkMkthNngD|0|TWXGVYPHGA4gWcZ9Zp2qnuvFVNagvorwE  
N|TSsrnbtJGYD1WmVsrsvauuwxbJyqkqkqL|ac19e80b02d4e8a27feb42073114070a281a2b7  
88ba064803e8064d259b22ebc"  
}
```

Next run **signmessage collateralAddress signMessage** , replacing both variables with the data above (without "")

If the command was executed successfully the wallet will respond with 1 string containing the **signature**

Example output:

```
H/d9tkCSzqdYh8qLL1c+KDIlrb4vtFSfdxd88XDc3U/hRZ6lMuAR8TULy7vh1YXGk6AYFFV1xyPNuEdZVMN9Sdl=
```

Next run **protx register_submit tx signature** to finally submit the masternode to the Blockchain.

If the command was executed successfully the wallet will respond with 1 string

Example output:

```
7da2e1187202a1a497beca05e0e53a6e4df0dc06046f72fbf8b61c942db2982a
```

You do not need to keep a record of that console output. Your masternode is now registered and will appear in the masternode list.

You can check the status of your masternode using the command "masternode status".

```
wildfire-cli masternode status
```

Example output

```
{
  "outpoint": "fdab9dff1ff9caf5d291905ad43b9f7d69775189d4d22cb085d7fedd94ea1c6a-0",
  "service": "136.144.171.201:9999",
  "proTxHash":
  "7da2e1187202a1a497beca05e0e53a6e4df0dc06046f72fbf8b61c942db2982a",
  "collateralHash":
  "fdab9dff1ff9caf5d291905ad43b9f7d69775189d4d22cb085d7fedd94ea1c6a",
  "collateralIndex": 0,
  "dmnState": {
    "service": "136.144.171.201:9999",
    "registeredHeight": 145,
    "lastPaidHeight": 0,
    "PoSePenalty": 0,
    "PoSeRevivedHeight": -1,
    "PoSeBanHeight": -1,
```

```
"revocationReason": 0,  
"ownerAddress": "TWXGVYPHGA4gWcZ9Zp2qnubFVNagvorwEN",  
"votingAddress": "TSsrnbtJGYD1WmVsrsvauuwxbJyqkkqL",  
"payoutAddress": "TEXj9AgdCh1giGmr1BXpYsngmkMkthNngD",  
"pubKeyOperator":  
"064bb1741f4707cfe3629176857c41e0d23cbe751061fe5d0d67b506db10c8f3f6f2b684c3cec  
8e4a128193a001d12e9"  
},  
"state": "READY",  
"status": "Ready"  
}
```

Note: There is no more masternode.conf file or similar. Everything is done “on-chain” using the commands above. If the state “READY” is displayed, your masternode is running and you will get your reward on the Next Payment block.

V) Important links:

Website: <https://wildfire-coin.com/>

Email: contact@wildfire-coin.com

Github: <https://github.com/Wildfire-new/>

Discord: <https://discord.gg/rJZ7b5cjkq>

Twitter: <https://twitter.com/wildfirecoin>

Telegram: <https://t.me/WildfireOfficial>

Block Explorer: <https://www.explorer.wildfire-coin.com>