

Rocket Pool Node Setup Guide

Capital costs

- 16 ETH
- ~150 – 180 RPL (min 10% collateral)
- Intel NUC ~ 750 CAD
(https://www.amazon.ca/gp/product/B08357VWB2/ref=ppx_yo_dt_b_asin_title_o08_s01?ie=UTF8&psc=1)
- 2 x 32 GB RAM Card ~ 440 CAD
(https://www.amazon.ca/gp/product/B07N124XDS/ref=ppx_yo_dt_b_asin_title_o08_s00?ie=UTF8&psc=1)
- 2 TB SSD ~380 CAD
(https://www.amazon.ca/gp/product/B07MFZXR1B/ref=ppx_yo_dt_b_asin_title_o06_s00?ie=UTF8&th=1)

Setup

1. Configure hardware (<https://www.youtube.com/watch?v=HvrLyjJZMtA>)
2. Install Linux OS on computer
3. Install rocketpool and play on test net until comfortable
(<https://www.youtube.com/watch?v=Hj8c4Z9yxxs>)
 - Follow along with rocketpool docs (<https://docs.rocketpool.net/guides/node/eth-clients.html>)
 - Use the default docker-based configuration
 - Select ‘locally managed’ which is formerly called docker mode which is the default choice
 - Select: Eth 1.0 client – Geth (execution layer)
 - Select fallback execution client: Infura Ethereum project
 - Get Project ID from Infura
 - Select ‘locally managed’
 - Select: Eth 2.0 client – Lighthouse (consensus layer)
 - Use infura ETH2 project for checkpoint sync **Remember to change from testnet to mainnet endpoint after mainnet migration**
 - <https://docs.rocketpool.net/guides/node/config-docker.html#the-setting-types-and-how-to-use-them>
 - Doppelganger detection – ‘yes’
 - Enable metrics – ‘yes’
4. Secure your node (<https://docs.rocketpool.net/guides/node/securing-your-node.html>)
5. Start rocketpool & setup wallet (<https://docs.rocketpool.net/guides/node/starting-rp.html#checking-the-service-status-and-logs>)
6. Prepare your node for operation (<https://docs.rocketpool.net/guides/node/prepare-node.html#loading-your-node-wallet>)
7. Create minipool (<https://docs.rocketpool.net/guides/node/create-validator.html>)

8. Once comfortable on testnet, migrate to mainnet (<https://docs.rocketpool.net/guides/node/mainnet.html#pool-staking-on-mainnet>)
9. Prepare your node for operation (again)
10. Create minipool (again) (<https://docs.rocketpool.net/guides/node/create-validator.html>)
11. Set up monitoring (<https://docs.rocketpool.net/guides/node/performance.html#directly-tracking-your-machine-s-status>)

Q/A

-How to have access node from anywhere?

Use Tail scale

(https://www.reddit.com/r/rocketpool/comments/rkgyn8/guide_how_to_seamlessly_access_your_rocket_pool/)

-How to secure my node and make it safe?

See Step 4

-How to autoclaim rewards?

By default, the rocketpool_node Docker container (or rp-node service in Native mode) will query the network to check if a checkpoint has passed and new RPL rewards are available to claim. It performs this check **every 5 minutes** and will claim the RPL rewards automatically. The rewards will then be sent to the node's **withdrawal address**, which (hopefully) you have set to an address other than the node wallet.

-How to deposit rewards into ledger?

<https://docs.rocketpool.net/guides/node/prepare-node.html#setting-your-withdrawal-address>

-How to minimize gas fees?

Enter Rocketpool service config into command line

‘TX Fees’(<https://docs.rocketpool.net/guides/node/rewards.html#changing-the-max-fee-threshold>)

-How to do update?

Operating System:

- Sudo apt update
- Sudo apt dist-upgrade
- Sudo apt autoremove # autoremoves any old versions of packages

- Sudo systemctl reboot #reboots system

Smartnode Stack:

- Rocketpool service stop #pauses services
- wget https://github.com/rocket-pool/smartnode-install/releases/latest/download/rocketpool-cli-linux-amd64 -O ~/bin/rocketpool #downloads latest version
- rocketpool service install -d #runs install
- rocketpool service start #starts back up rocketpool
- rocketpool service version #checks version

-What happens when merge is complete?

Upgrade rocketpool

More rewards

-How to add another mini-pool?

Rocketpool node deposit – add eth (16 or 32 ETH) (<https://docs.rocketpool.net/guides/node/create-validator.html#confirming-a-successful-stake>)

Rocketpool node stake-rpl (add rpl) – 1.6 ETH minimum and 25 ETH maximum equivalent of RPL

-How to exit?

Rocketpool service stop

Rocketpool minipool refund

Rocketpool minipool exit

-How to switch clients?

‘Rocketpool service config’ command

-How to check if I am getting slashed?

Use <https://beaconcha.in/user/notifications> to sign up for notifications

Rocketpool commands:

Type `rocketpool service **command**` in command line

SERVICE COMMANDS:

<code>install, i</code>	Install the Rocket Pool service
<code>config, c</code>	Configure the Rocket Pool service
<code>status, u</code>	View the Rocket Pool service status
<code>start, s</code>	Start the Rocket Pool service
<code>pause, p</code>	Pause the Rocket Pool service
<code>stop, o</code>	Pause the Rocket Pool service (alias of 'rocketpool service pause')
<code>terminate, t</code>	Stop the Rocket Pool service and tear down the service stack
<code>logs, l</code>	View the Rocket Pool service logs
<code>stats, a</code>	View the Rocket Pool service stats
<code>version, v</code>	View the Rocket Pool service version information
<code>install-update-tracker, d</code>	Install the update tracker that provides the available system update count to the metrics dashboard

Type `rocketpool node **command**` in command line

NODE COMMANDS:

<code>status, s</code>	Get the node's status
<code>sync, y</code>	Get the sync progress of the eth1 and eth2 clients
<code>register, r</code>	Register the node with Rocket Pool
<code>rewards, e</code>	Get the time and your expected RPL rewards of the next checkpoint
<code>set-withdrawal-address, w</code>	Set the node's withdrawal address
<code>confirm-withdrawal-address, f</code>	Confirm the node's pending withdrawal address if it has been set back to the node's address itself
<code>set-timezone, t</code>	Set the node's timezone location
<code>swap-rpl, p</code>	Swap old RPL for new RPL
<code>stake-rpl, k</code>	Stake RPL against the node
<code>claim-rpl, c</code>	Claim available RPL rewards for the current checkpoint
<code>withdraw-rpl, i</code>	Withdraw RPL staked against the node
<code>deposit, d</code>	Make a deposit and create a minipool
<code>send, n</code>	Send ETH or tokens from the node account to an address

Type `rocketpool minipool **command**` in command line

MINIPOOL COMMANDS:

<code>status, s</code>	Get a list of the node's minipools
<code>refund, r</code>	Refund ETH belonging to the node from minipools
<code>exit, e</code>	Exit staking minipools from the beacon chain
<code>delegate-upgrade, u</code>	Upgrade a minipool's delegate contract to the latest version
<code>delegate-rollback, b</code>	Roll a minipool's delegate contract back to its previous version

set-use-latest-delegate, 1 If enabled, the minipool will ignore its current delegate contract and always use whatever the latest delegate is
find-vanity-address, v Search for a custom vanity minipool address

Type rocketpool wallet status – to get address of node wallet