Validators

General considerations

Important Please check out the security considerations before using Nethermind as a validator. For Ethereum validators, we highly recommend checking out Staking with Ethereum and Validator checklist.

Hardware configurations

The following hardware configurations for Ethereum Mainnet validators have been battle-tested by us and our users. We have observed excellent validator performance and stability with these configurations.

note Before setting up your infrastructure, check outNethermind hardware requirements.

On-premises

A single validator on Intel NUC 11:

- CPU: Intel Core i7-1165G7
- Memory: Crucial 32GB DDR4-3200 SODIMM
- Storage: Samsung 980 PRO PCIe NVMe SSD 2TB
- Internet speed: 620 Mbps download, 160 Mbps upload

AWS

Multiple validators on the following EC2 instances:

- m6i.2xlarge
- : 8 vCPU, 32 GiB memory
- m7g.2xlarge
- : 8 vCPU, 32 GiB memory

These configurations have proven to work well for 1000-1500 validators and haven't been tested for more validators. Also, the validator clients have been separated from the consensus and execution clients and running ontages.

Azure

Multiple validators on the following VM instances:

- Standard D8 v5
- : 8 vCPU, 32 GiB memory
- Standard D8ps v5
- : 8 vCPU, 32 GiB memory

These configurations have proven to work well for 1000-1500 validators and haven't been tested for more validators. Also, the validator clients have been separated from the consensus and execution clients and running on Standard D2pls v5 instances.

GCP

Multiple validators on thec2d-highmem-4 instance: 4 vCPU, 32 GB memory

These configurations have proven to work well for 1000-1500 validators and haven't been tested for more validators. Also, the validator clients have been separated from the consensus and execution clients and running one2-small instances.

Gnosis validators

To set up a Gnosis Chain validator, you can either do that manually or use one of the available ne-click tools. Edit this page Last updatedonMar 26, 2024 Previous Health check Next Aura-based validators