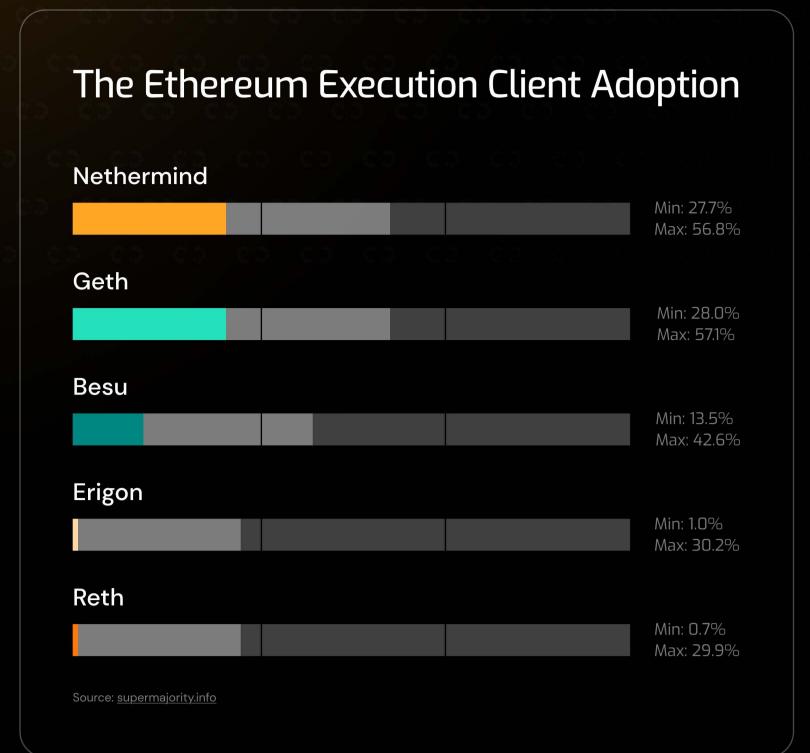
### **About Nethermind Client**

The Nethermind Ethereum Execution Client, built on .NET, delivers industry-leading performance in syncing and tip-of-chain processing.

With its modular design and plugin system, it offers extensibility for new chains and features. As one of the most adopted Execution Clients on the Ethereum mainnet, Nethermind plays a crucial role in enhancing the diversity and resilience of the Ethereum ecosystem.



### **Battle-Tested Execution Client**

**EXPERIENCE** 

### Robust Core Development Team

With 7 years of continuous development and experience navigating through multiple network upgrades, the Nethermind Core team of 20+ developers is focused on further improvements and innovation.



### **Leading Ethereum Execution Client**

According to <u>supermajority</u>, Nethermind is the most adopted client. It has been battle-tested by the largest staking companies.



RELIABILITY

### Supermajority Client on Gnosis Chain

Gnosis Chain relies on Nethermind as its supermajority client. It has been running seamlessly for years without any downtime.



## Built-in support of leading L2 networks

Nethermind supports various Layer 2s, including Taiko, Linea, and OP-stack chains, with OP-mainnet and Base configurations built-in.



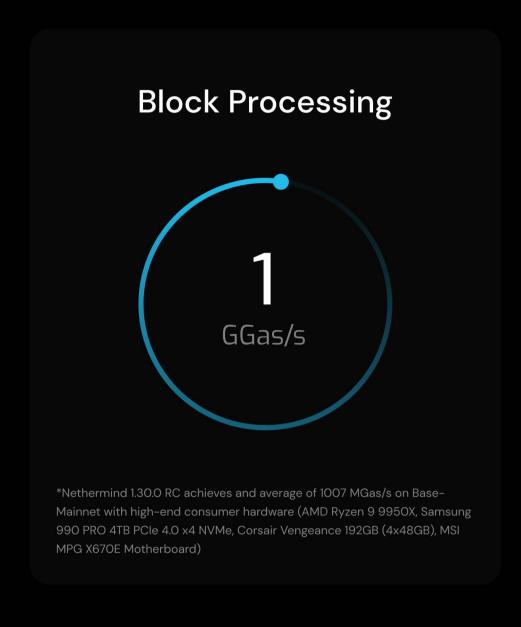
**EXTENSIBILITY** 

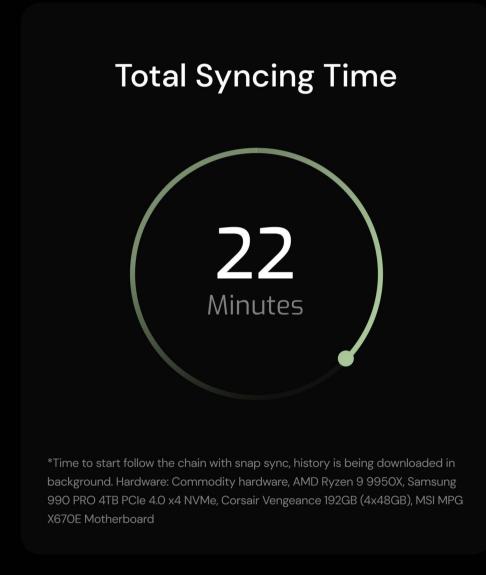
### **Plugins**

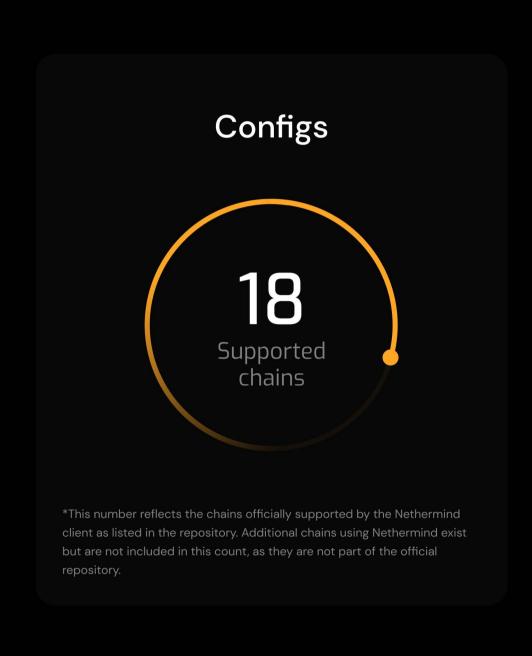
The Nethermind plugin system allows you to customize the node to meet specific needs, enabling changes to consensus rules and the development of custom features, EIPs, or RIPs.

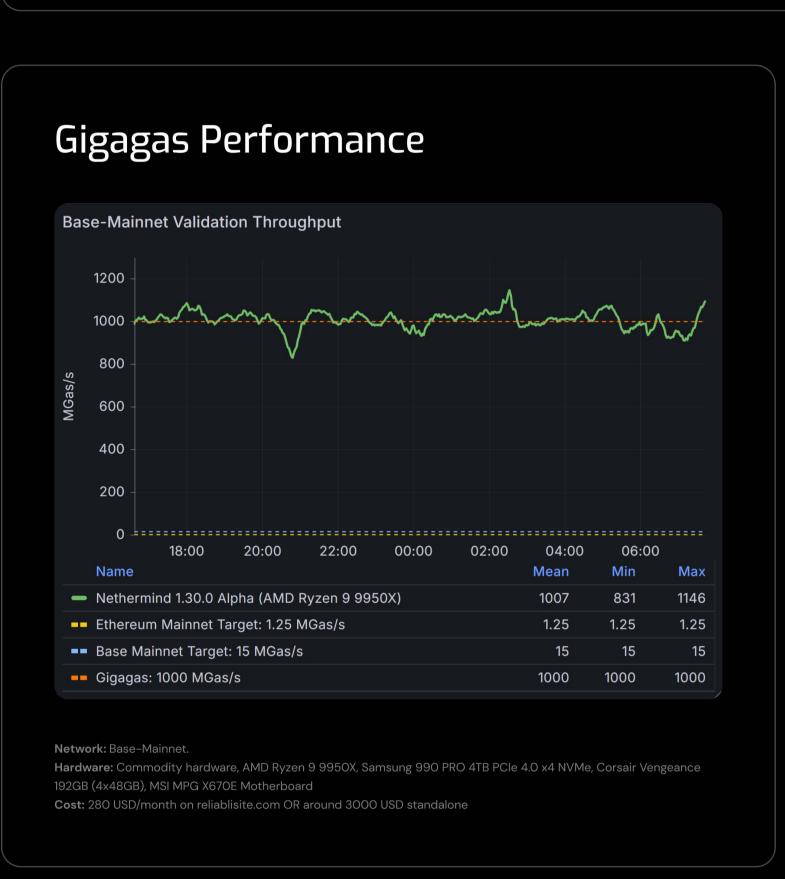
## Performance & Development

Nethermind is a high-performance client known for its excellent validator performance, fast block processing time, and rapid syncing. The team is actively working on performance improvements and optimizations. The following is a summary of the current performance and areas of development:











## Active Research & Development



## Paprika

Ethereum's state and storage tries. It is designed to leverage blockchain-specific state operations and functionalities to maximize performance while eliminating the need for pruning.

Experimental database engine that encapsulates



# Exploring worst-case scenarios and potential DDoS

Gas Limit Research

vectors for EVM across different clients. This research has already uncovered interesting cases, which are particularly important for chains with high gas limits.



## **Archive Data Indexing**

Super fast indexing of archive data, including state and logs, while having lowest possible disk footprint.



## IL-EVM

High-performance EVM bytecode execution, utilizing contract pre-compilation to .NET's intermediate language.

# More Highlights



24/7 engineering support available through Slack, Discord, and Telegram.

hello@nethermind.io



We've developed Sedge, a tool that offers a streamlined node setup through a CLI wizard.



clients.

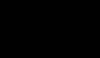
Leveraging the expertise of Nethermind's Research & Engineering teams, experienced in working with high-profile institutional



infrastructure management to institutions.

Close collaboration with Nethermind's DevOps team, experienced in the operation of a large set of validators and providing

Custom-built tools, diverse testing methods (synchronization tests, performance tests, cross-client tests, stress testing, and



co nethermind.io











node stability testing).