Configuration

Nethermind is highly configurable. There are 3 ways of configuring it, listed by priority:

- Command line options
- (aka arguments or flags)
- Environment variables
- Configuration file

note Given the above priority list, an option defined in a more priority way overrides the same option defined elsewhere if any.

Command line options

The full list of command line options can be displayed by running:

nethermind -h Below is the list of the basic options followed by an exhaustive list of options by namespace.

warning The command line options are case-sensitive and can be defined only once unless stated otherwise.

Basic options

- · -d, --baseDbPath
- The path to the Nethermind database directory. Defaults todb

- The path to the configuration file
- · or the name (without extension) of any of the configuration files in the configuration directory. Defaults tomainnet
- Available configurations
- Nethermind provides the following pre-built configurations named as the networks they are for. Their respective versions for archive nodes are suffixed archive
- - · base-goerli
- · base-goerli_archive
- base-mainnet
- - base-mainnet_archive
- · base-sepolia
- base-sepolia_archive
- chiado
 - · chiado_archive
- energyweb
 - energyweb_archive
- goerli
- - goerli_archive
 - gnosis
- gnosis_archive
- holesky
- holesky_archive
- mainnet
- mainnet archive
- o op-goerli
 - op-goerli_archive
- op-mainnet

- op-mainnet_archive · op-sepolia o op-sepolia archive sepolia sepolia_archive volta volta archive -cd, --configsDirectory The path to the configuration files directory. Defaults toconfigs The path to the Nethermind data directory. Defaults to Nethermind's current directory. warning • The absolute paths set bylnit.BaseDbPath • ,Init.LogDirectory , orKeyStore.KeyStoreDirectory options in a configuration file are not overridden by--datadir -?, -h, --help • Displays the full list of available command line options. • -l, --log · Log level (severity). Allowed values:TRACE • DEBUG INFO WARN ERROR OFF . Defaults toINFO • -lcs, --loggerConfigSource The path to the NLog configuration file. Defaults to NLog. config · -pd, --pluginsDirectory The path to the Nethermind plugins directory. Defaults toplugins • -v, --version · Displays the Nethermind version info. Options by namespaces Aura · --Aura.AllowAuRaPrivateChains NETHERMIND_AURACONFIG_ALLOWAURAPRIVATECHAINS Whether to allow private Aura-based chains only. Do not use with existing Aura-based chains. Allowed values:true · . Defaults tofalse --Aura.ForceSealing • NETHERMIND AURACONFIG FORCESEALING Whether to seal empty blocks if mining. Allowed values:true · . Defaults totrue • --Aura.Minimum2MlnGasPerBlockWhenUsingBlockGasLimitContract NETHERMIND_AURACONFIG_MINIMUM2MLNGASPERBLOCKWHENUSINGBLOCKGASLIMITCONTRACT Whether to use 2M gas if the contract returns less than that when usingBlockGasLimitContractTransitions . Allowed values:true
 - false . Defaults tofalse

 - · --Aura.TxPriorityConfigFilePath
 - NETHERMIND AURACONFIG TXPRIORITYCONFIGFILEPATH

 - The path to the transaction priority rules file to use when selecting transactions from the transaction pool. Defaults tonull
 - · --Aura.TxPriorityContractAddress
 - NETHERMIND AURACONFIG TXPRIORITYCONTRACTADDRESS
 - The address of the transaction priority contract to use when selecting transactions from the transaction pool. Defaults tonull

Blocks

- --Blocks.ExtraData
- NETHERMIND BLOCKSCONFIG EXTRADATA
- The block header extra data up to 32 bytes in length. Defaults toNethermind
- · --Blocks.MinGasPrice
- NETHERMIND BLOCKSCONFIG MINGASPRICE
- The minimum gas premium (or the gas price before the London hard fork) for transactions accepted by the block producer. Defaults to1
- •
- --Blocks.RandomizedBlocks
- NETHERMIND BLOCKSCONFIG RANDOMIZEDBLOCKS
- · Whether to change the difficulty of the block randomly within the constraints. Used in NethDev only. Allowed values:true
- false
- · . Defaults tofalse
- .
- · --Blocks.SecondsPerSlot
- NETHERMIND_BLOCKSCONFIG_SECONDSPERSLOT
- The block time slot, in seconds. Defaults to 12
- .
- · --Blocks.TargetBlockGasLimit
- NETHERMIND BLOCKSCONFIG TARGETBLOCKGASLIMIT
- The block gas limit that the block producer should try to reach in the fastest possible way based on the protocol rules. If not specified, then the block producer should follow others. Defaults tonull
- .

Bloom

- · --Bloom.Index
- NETHERMIND BLOOMCONFIG INDEX
- · Whether to use the Bloom index. The Bloom index speeds up the RPC log searches. Allowed values:true
- false
- Defaults totrue
- •
- · --Bloom.IndexLevelBucketSizes
- NETHERMIND BLOOMCONFIG INDEXLEVELBUCKETSIZES
- An array of multipliers for index levels. Can be tweaked per chain to boost performance. Defaults to[4, 8, 8]
- .
- --Bloom.Migration
- NETHERMIND BLOOMCONFIG MIGRATION
- Whether to migrate the previously downloaded blocks to the Bloom index. Allowed values:true
- false
- Defaults tofalse
- .
- · --Bloom.MigrationStatistics
- NETHERMIND_BLOOMCONFIG_MIGRATIONSTATISTICS
- Whether the migration statistics should be calculated and output. Allowed values:true
- false
- . Defaults tofalse
- •

EthStats

- --EthStats.Contact
- NETHERMIND_ETHSTATSCONFIG_CONTACT
- The node owner contact details displayed on Ethstats. Defaults tohello@nethermind.io
- .
- · --EthStats.Enabled
- NETHERMIND ETHSTATSCONFIG ENABLED
- · Whether to use Ethstats publishing. Allowed values:true
- false
- Defaults tofalse
- .
- · --EthStats.Name
- NETHERMIND_ETHSTATSCONFIG_NAME
- The node name displayed on Ethstats. Defaults toNethermind
- .
- · --EthStats.Secret
- NETHERMIND ETHSTATSCONFIG SECRET
- · The Ethstats secret. Defaults tosecret
- .
- --EthStats.SendInterval
- NETHERMIND_ETHSTATSCONFIG_SENDINTERVAL
- The stats update interval, in seconds. Defaults to 15
- .

- --EthStats.Server
- NETHERMIND ETHSTATSCONFIG SERVER
- The Ethstats server URL. Defaults tows://localhost:3000/api

HealthChecks

- · --HealthChecks.Enabled
- NETHERMIND HEALTHCHECKSCONFIG ENABLED
- Whether to enable the health check. Allowed values:true
- · . Defaults tofalse

- --HealthChecks.LowStorageCheckAwaitOnStartup
- NETHERMIND HEALTHCHECKSCONFIG LOWSTORAGECHECKAWAITONSTARTUP
- Whether to check for low disk space on startup and suspend until enough space is available. Allowed values:true
- false
- · . Defaults tofalse

- --HealthChecks.LowStorageSpaceShutdownThreshold
- NETHERMIND HEALTHCHECKSCONFIG LOWSTORAGESPACESHUTDOWNTHRESHOLD
- The percentage of available disk space below which Nethermind shuts down.0
- to disable. Defaults to1

- --HealthChecks.LowStorageSpaceWarningThreshold
- NETHERMIND_HEALTHCHECKSCONFIG_LOWSTORAGESPACEWARNINGTHRESHOLD
- The percentage of available disk space below which a warning is displayed.0
- to disable. Defaults to 5

- --HealthChecks.MaxIntervalClRequestTime
- NETHERMIND_HEALTHCHECKSCONFIG_MAXINTERVALCLREQUESTTIME
- The max request interval, in seconds, in which the consensus client is assumed healthy. Defaults to 300

- · --HealthChecks.MaxIntervalWithoutProcessedBlock
- NETHERMIND HEALTHCHECKSCONFIG MAXINTERVALWITHOUTPROCESSEDBLOCK
- The max interval, in seconds, in which the block processing is assumed healthy. Defaults tonull

- --HealthChecks.MaxIntervalWithoutProducedBlock
- NETHERMIND HEALTHCHECKSCONFIG MAXINTERVALWITHOUTPRODUCEDBLOCK
- . The max interval, in seconds, in which the block production is assumed healthy. Defaults tonull

- · --HealthChecks.PollingInterval
- NETHERMIND_HEALTHCHECKSCONFIG_POLLINGINTERVAL
- The health check updates polling interval, in seconds. Defaults to5

- · --HealthChecks.Slug
- NETHERMIND HEALTHCHECKSCONFIG SLUG
- The URL slug the health checks service is exposed at. Defaults to/health

- --HealthChecks.UIEnabled
- NETHERMIND HEALTHCHECKSCONFIG UIENABLED
- Whether to enable the health checks UI. Allowed values:true
- false
- . Defaults tofalse

- --HealthChecks.WebhooksEnabled
- NETHERMIND HEALTHCHECKSCONFIG WEBHOOKSENABLED
- Whether to enable web hooks. Allowed values:true
- false
- . Defaults tofalse

- --HealthChecks.WebhooksPayload NETHERMIND_HEALTHCHECKSCONFIG_WEBHOOKSPAYLOAD
- An escaped JSON paylod to be sent to the web hook on failure.
- Defaults to:

- "attachments"
- •
- "color"
- "#FFCC00"
- "pretext"

```
"Health Check Status :warning:"
,
"fields"
"title"
"Details"
,
"value"
"More details available at /healthchecks-ui"
,
"short"
false
"title"
"Description"
"value"
"[[DESCRIPTIONS]]"
"short"
false
--HealthChecks.WebhooksRestorePayload
NETHERMIND_HEALTHCHECKSCONFIG_WEBHOOKSRESTOREPAYLOAD
An escaped JSON paylod to be sent to the web hook on recovery.
Defaults to:
"attachments"
"color"
"#36a64f"
"pretext"
"Health Check Status :+1:"
"fields"
{
"title"
"Details"
"value"
"More details available at /healthchecks-ui"
,
"short"
"title"
"description"
"value"
```

```
"The HealthCheck [[LIVENESS]] is recovered. Everything is up and running."
     "short"
    false
   • }
     --HealthChecks.WebhooksUri
     NETHERMIND_HEALTHCHECKSCONFIG_WEBHOOKSURI
    The web hook URL. Defaults tonull
Hive
   · --Hive.BlocksDir
     NETHERMIND_HIVECONFIG_BLOCKSDIR
     The path to the directory with additional blocks. Defaults to/blocks
   · --Hive.ChainFile
    NETHERMIND HIVECONFIG CHAINFILE
     The path to the test chain spec file. Defaults to/chain.rlp
   · --Hive.Enabled
   • NETHERMIND_HIVECONFIG_ENABLED
     Whether to enable Hive for debugging. Allowed values:true
     . Defaults tofalse
     --Hive.GenesisFilePath
     NETHERMIND_HIVECONFIG_GENESISFILEPATH
     The path to the genesis block file. Defaults to/genesis.json
    --Hive.KeysDir
    NETHERMIND HIVECONFIG KEYSDIR
     The path to the keystore directory. Defaults to/keys
Init
     --Init.AutoDump
   • NETHERMIND_INITCONFIG_AUTODUMP
     Auto-dump on bad blocks for diagnostics. Default
     combinesReceipts
     andRlp
     Allowed values:
        None

    Receipts

        Parity
        Geth
        Rlp

    RlpLog

        Default
        All
     Defaults to Default
     --Init.BadBlocksStored
     NETHERMIND INITCONFIG BADBLOCKSSTORED
     The maximum number of bad blocks observed on the network that will be stored to disk. Defaults to100
     --Init.BaseDbPath
   • NETHERMIND_INITCONFIG_BASEDBPATH
   · The base path for all Nethermind databases. Defaults todb
```

--Init.ChainSpecPath NETHERMIND INITCONFIG CHAINSPECPATH • The path to the chain spec file. Defaults tochainspec/foundation.json · --Init.DiagnosticMode NETHERMIND INITCONFIG DIAGNOSTICMODE The diagnostic mode. Allowed values: None MemDb RpcDb ReadOnlyDb VerifyRewards VerifySupply VerifyTrie Defaults toNone --Init.DiscoveryEnabled NETHERMIND_INITCONFIG_DISCOVERYENABLED Whether to enable the node discovery. If disabled, Nethermind doesn't look for other nodes beyond the bootnodes specified. Allowed values:true false . Defaults totrue --Init.EnableUnsecuredDevWallet NETHERMIND_INITCONFIG_ENABLEUNSECUREDDEVWALLET Whether to enable the in-app wallet/keystore. Allowed values:true false . Defaults tofalse • --Init.GenesisHash • NETHERMIND_INITCONFIG_GENESISHASH The hash of the genesis block. If not specified, the genesis block validity is not checked which is useful in the case of ad hoc test/private networks. Defaults tonull --Init.HiveChainSpecPath NETHERMIND_INITCONFIG_HIVECHAINSPECPATH The path to the chain spec file for Hive tests. Defaults tochainspec/test.json • --Init.IsMining NETHERMIND INITCONFIG ISMINING Whether to seal/mine new blocks. Allowed values:true false . Defaults tofalse • --Init.KeepDevWalletInMemory NETHERMIND INITCONFIG KEEPDEVWALLETINMEMORY Whether to create session-only accounts and delete them on shutdown. Allowed values:true false . Defaults tofalse --Init.KzgSetupPath NETHERMIND_INITCONFIG_KZGSETUPPATH · The path to KZG trusted setup file. Defaults tonull · --Init.LogDirectory NETHERMIND INITCONFIG LOGDIRECTORY The path to the Nethermind logs directory. Defaults tologs · --Init.LogFileName NETHERMIND INITCONFIG LOGFILENAME

· The name of the log file. Defaults tolog.txt

NETHERMIND_INITCONFIG_LOGRULES
 The logs format asLogPath:LogLevel;*

· --Init.LogRules

Defaults tonull

· --Init.MemoryHint

- NETHERMIND INITCONFIG MEMORYHINT
- The hint on the max memory limit, in bytes, to configure the database and networking memory allocations. Defaults tonull
- .--Init.PeerManagerEnabled
- NETHERMIND INITCONFIG PERMANAGERENABLED
- · Whether to connect to newly discovered peers. Allowed values:true
- false
- Defaults totrue
- .
- · --Init.ProcessingEnabled
- NETHERMIND INITCONFIG PROCESSINGENABLED
- Whether to download/process new blocks. Allowed values:true
- false
- Defaults totrue
- .
- --Init.RpcDbUrl
- NETHERMIND INITCONFIG RPCDBURL
- The URL of the remote node used as a database source when Diagnostic Mode
- is set toRpcDb
- .
- · --Init.StaticNodesPath
- NETHERMIND INITCONFIG STATICNODESPATH
- The path to the static nodes file. Defaults to Data/static-nodes.json
- .
- --Init.WebSocketsEnabled
- NETHERMIND_INITCONFIG_WEBSOCKETSENABLED
- Whether to enable WebSocket service for the defaut JSON-RPC port on startup. Allowed values:true
- false
- Defaults totrue
- .

JsonRpc

- · --JsonRpc.AdditionalRpcUrls
- NETHERMIND JSONRPCCONFIG ADDITIONAL RPCURLS
- An array of additional JSON-RPC URLs to listen at with protocol and JSON-RPC namespace list. For instance, [http://localhost:8546|http;ws|eth;web3]
- Defaults to[]
- .
- --JsonRpc.BufferResponses
- NETHERMIND JSONRPCCONFIG BUFFERRESPONSES
- · Whether to buffer responses before sending them. This allows using of Content-Length
- instead of Transfer-Encoding: chunked
- Note that it may degrade performance on large responses. The max buffered response length is 2GB. Chunked responses can be larger. Allowed values:true
- false
- Defaults tofalse
- •
- --JsonRpc.CallsFilterFilePath
- NETHERMIND_JSONRPCCONFIG_CALLSFILTERFILEPATH
- The path to a file with the list of new-line-separated JSON-RPC calls. If specified, only the calls from that file are allowed. Defaults toData/jsonrpc.filter
- --JsonRpc.Enabled
- NETHERMIND_JSONRPCCONFIG_ENABLED
- Whether to enable the JSON-RPC service. Allowed values:true
- false
- Defaults tofalse
- .
- --JsonRpc.EnabledModules
- NETHERMIND JSONRPCCONFIG ENABLEDMODULES
- An array of JSON-RPC namespaces to enable. For instance,[debug,eth]
- Built-in namespaces:
 - admin
 - client
- debug
- engine
- eth
- evm

health net parity personal proof • rpc subscribe trace txpool Defaults to [Eth, Subscribe, Trace, TxPool, Web3, Personal, Proof, Net, Parity, Health, Rpc] --JsonRpc.EngineEnabledModules NETHERMIND_JSONRPCCONFIG_ENGINEENABLEDMODULES An array of additional JSON-RPC URLs to listen at with protocol and JSON-RPC namespace list for Engine API. Defaults to[Net,Eth,Subscribe,Web3] --JsonRpc.EngineHost NETHERMIND_JSONRPCCONFIG_ENGINEHOST The Engine API host. Defaults to127.0.0.1 --JsonRpc.EnginePort NETHERMIND JSONRPCCONFIG ENGINEPORT The Engine API port. Defaults tonull --JsonRpc.EthModuleConcurrentInstances NETHERMIND JSONRPCCONFIG ETHMODULECONCURRENTINSTANCES The number of concurrent instances for non-sharable calls: · eth_call · eth estimateGas eth_getLogs eth_newBlockFilter • eth newFilter eth_newPendingTransactionFilter eth_uninstallFilter This limits the load on the CPU and I/O to reasonable levels. If the limit is exceeded, HTTP 503 is returned along with the JSON-RPC error. Defaults to the number of logical processors. --JsonRpc.GasCap NETHERMIND JSONRPCCONFIG GASCAP The gas limit foreth_call andeth_estimateGas . Defaults to100000000 --JsonRpc.Host NETHERMIND JSONRPCCONFIG HOST The JSON-RPC service host. Defaults to 127.0.0.1 --JsonRpc.lpcUnixDomainSocketPath NETHERMIND_JSONRPCCONFIG_IPCUNIXDOMAINSOCKETPATH The path to connect a UNIX domain socket over. --JsonRpc.JwtSecretFile • NETHERMIND JSONRPCCONFIG JWTSECRETFILE • The path to the JWT secret file required for the Engine API authentication. Defaults tokeystore/jwt-secret · --JsonRpc.MaxBatchResponseBodySize NETHERMIND JSONRPCCONFIG MAXBATCHRESPONSEBODYSIZE The max batch size limit for batched JSON-RPC calls. Defaults to 30000000 --JsonRpc.MaxBatchSize

- NETHERMIND_JSONRPCCONFIG_MAXBATCHSIZE • The max number of JSON-RPC requests in a batch. Defaults to1024 • -- JsonRpc.MaxLoggedRequestParametersCharacters NETHERMIND JSONRPCCONFIG MAXLOGGEDREQUESTPARAMETERSCHARACTERS The max number of characters of a JSON-RPC request parameter printing to the log. Defaults tonull • --JsonRpc.MaxRequestBodySize NETHERMIND_JSONRPCCONFIG_MAXREQUESTBODYSIZE The max length of HTTP request body, in bytes. Defaults to30000000 --JsonRpc.MethodsLoggingFiltering NETHERMIND JSONRPCCONFIG METHODSLOGGINGFILTERING An array of the method names not to log. Defaults to[engine_newPayloadV1,engine_newPayloadV2,engine_newPayloadV3,engine_forkchoiceUpdatedV1,engine_forkchoiceUpdatedV2] --JsonRpc.Port NETHERMIND JSONRPCCONFIG PORT The JSON-RPC service HTTP port. Defaults to8545 --JsonRpc.ReportIntervalSeconds NETHERMIND JSONRPCCONFIG REPORTINTERVALSECONDS The interval, in seconds, between the JSON-RPC stats report log. Defaults to 300 --JsonRpc.RequestQueueLimit NETHERMIND_JSONRPCCONFIG_REQUESTQUEUELIMIT The max number of concurrent requests in the queue for: eth_call eth estimateGas eth_getLogs eth_newFilter • eth newBlockFilter • eth_newPendingTransactionFilter eth_uninstallFilter to lift the limit. Defaults to 500 --JsonRpc.RpcRecorderBaseFilePath NETHERMIND_JSONRPCCONFIG_RPCRECORDERBASEFILEPATH The path to the base file for diagnostic recording. Defaults tologs/rpc.{counter}.txt --JsonRpc.RpcRecorderState NETHERMIND JSONRPCCONFIG RPCRECORDERSTATE The diagnostic recording mode. Allowed values: None
 - Request
 - Response
 - 。 All
 - Defaults toNone
 - --JsonRpc.Timeout
- NETHERMIND_JSONRPCCONFIG_TIMEOUT
- · The request timeout, in milliseconds. Defaults to 20000
- · --JsonRpc.WebSocketsPort
- NETHERMIND JSONRPCCONFIG WEBSOCKETSPORT
- The JSON-RPC service WebSockets port. Defaults to8545

KeyStore

- --KeyStore.BlockAuthorAccount
- NETHERMIND_KEYSTORECONFIG_BLOCKAUTHORACCOUNT
- An account to use as the block author (coinbase).

- --KeyStore.Cipher • NETHERMIND KEYSTORECONFIG CIPHER SeeWeb3 secret storage definition . Defaults toaes-128-ctr --KeyStore.EnodeAccount
- NETHERMIND KEYSTORECONFIG ENODEACCOUNT
- An account to use for networking (enode). If neither this nor the Enode Key File
- option is specified, the key is autogenerated innode.key.plain
- file.
- --KeyStore.EnodeKeyFile
- NETHERMIND KEYSTORECONFIG ENODEKEYFILE
- The path to the key file to use by for networking (enode). If neither this nor the Enode Account
- is specified, the key is autogenerated innode.key.plain
- --KeyStore.IVSize
- NETHERMIND KEYSTORECONFIG IVSIZE
- SeeWeb3 secret storage definition
- . Defaults to16
- --KeyStore.Kdf
- NETHERMIND KEYSTORECONFIG KDF
- SeeWeb3 secret storage definition
- . Defaults toscrypt
- · --KeyStore.KdfparamsDklen
- NETHERMIND_KEYSTORECONFIG_KDFPARAMSDKLEN
- SeeWeb3 secret storage definition
- . Defaults to32
- --KeyStore.KdfparamsN
- NETHERMIND KEYSTORECONFIG KDFPARAMSN
- SeeWeb3 secret storage definition
- . Defaults to 262144
- --KeyStore.KdfparamsP
- NETHERMIND KEYSTORECONFIG KDFPARAMSP
- SeeWeb3 secret storage definition
- . Defaults to1
- · --KeyStore.KdfparamsR
- NETHERMIND KEYSTORECONFIG KDFPARAMSR
- SeeWeb3 secret storage definition
- . Defaults to8
- --KeyStore.KdfparamsSaltLen
- NETHERMIND KEYSTORECONFIG KDFPARAMSSALTLEN
- SeeWeb3 secret storage definition
- . Defaults to32
- --KeyStore.KeyStoreDirectory
- NETHERMIND KEYSTORECONFIG KEYSTOREDIRECTORY
- The path to the keystore directory. Defaults tokeystore
- --KeyStore.KeyStoreEncoding
- NETHERMIND KEYSTORECONFIG KEYSTOREENCODING
- SeeWeb3 secret storage definition
- . Defaults toUTF-8
- --KeyStore.PasswordFiles
- NETHERMIND KEYSTORECONFIG PASSWORDFILES
- An array of password files paths used to unlock the accounts set with Unlock Accounts
- . Defaults to[]
- --KeyStore.Passwords
- NETHERMIND KEYSTORECONFIG PASSWORDS
- An array of passwords used to unlock the accounts set withUnlockAccounts
- . Defaults to[]
- --KeyStore.SymmetricEncrypterBlockSize
- NETHERMIND_KEYSTORECONFIG_SYMMETRICENCRYPTERBLOCKSIZE
- SeeWeb3 secret storage definition
- . Defaults to128
- --KeyStore.SymmetricEncrypterKeySize
- NETHERMIND KEYSTORECONFIG SYMMETRICENCRYPTERKEYSIZE

SeeWeb3 secret storage definition . Defaults to128 --KeyStore.TestNodeKey NETHERMIND KEYSTORECONFIG TESTNODEKEY · A plaintext private key to use for testing purposes. • --KeyStore.UnlockAccounts NETHERMIND KEYSTORECONFIG UNLOCKACCOUNTS · An array of accounts to unlock on startup using passwords either inPasswordFiles andPasswords • . Defaults to[] Merge · --Merge.BuilderRelayUrl NETHERMIND MERGECONFIG BUILDERRELAYURL • The URL of a builder relay. If specified, blocks are sent to the relay. Defaults tonull • --Merge.CollectionsPerDecommit NETHERMIND MERGECONFIG COLLECTIONSPERDECOMMIT Request the garbage collector (GC) to release the process memory. Allowed values: -1 · to disable · 0 · to release every time A positive number to release memory after that many Engine API calls Defaults to 25 --Merge.CompactMemory NETHERMIND_MERGECONFIG_COMPACTMEMORY The memory compaction mode. When set to Full , compacts the large object heap (LOH) ifSweepMemory is set toGen2 Allowed values: No Yes Full · Defaults to Yes --Merge.Enabled NETHERMIND MERGECONFIG ENABLED Whether to enable the Merge hard fork. Allowed values:true false . Defaults totrue · --Merge.FinalTotalDifficulty NETHERMIND MERGECONFIG FINALTOTALDIFFICULTY The total difficulty of the last PoW block. Must be greater than or equal to the terminal total difficulty (TTD). Defaults tonull --Merge.PrioritizeBlockLatency NETHERMIND_MERGECONFIG_PRIORITIZEBLOCKLATENCY Whether to reduce block latency by disabling garbage collection during Engine API calls. Allowed values:true false . Defaults totrue --Merge.SweepMemory NETHERMIND MERGECONFIG SWEEPMEMORY The garbage collection (GC) mode between Engine API calls. Allowed values: NoGC

Gen0Gen1

- 。Gen2
- · Defaults toGen1
- .
- --Merge.TerminalBlockHash
- NETHERMIND MERGECONFIG TERMINALBLOCKHASH
- The terminal PoW block hash used for the transition. Defaults tonull
- .
- --Merge.TerminalBlockNumber
- NETHERMIND_MERGECONFIG_TERMINALBLOCKNUMBER
- The terminal PoW block number used for the transition.
- --Merge.TerminalTotalDifficulty
- NETHERMIND MERGECONFIG TERMINALTOTALDIFFICULTY
- The terminal total difficulty (TTD) used for the transition. Defaults tonull
- .

Metrics

- · --Metrics.CountersEnabled
- NETHERMIND METRICSCONFIG COUNTERSENABLED
- · Whether to publish metrics using .NET diagnostics that can be collected with dotnet-counters. Allowed values:true
- false
- · . Defaults tofalse
- •
- · --Metrics.Enabled
- NETHERMIND METRICSCONFIG ENABLED
- Whether to publish various metrics to Prometheus Pushgateway at a given interval. Allowed values:true
- false
- . Defaults tofalse
- •
- · --Metrics.EnableDbSizeMetrics
- NETHERMIND_METRICSCONFIG_ENABLEDBSIZEMETRICS
- · Whether to publish database size metrics. Allowed values:true
- false
- · . Defaults totrue
- •
- · --Metrics.ExposeHost
- NETHERMIND METRICSCONFIG EXPOSEHOST
- The IP address to expose Prometheus metrics at. The value of+
- · means listening on all available hostnames. Setting this tolocalhost
- · prevents remote access. Defaults to+
- .
- --Metrics.ExposePort
- NETHERMIND METRICSCONFIG EXPOSEPORT
- The port to expose Prometheus metrics at. Defaults tonull
- .
- --Metrics.IntervalSeconds
- NETHERMIND_METRICSCONFIG_INTERVALSECONDS
- The frequency of pushing metrics to Prometheus, in seconds. Defaults to5
- --Metrics.NodeName
- NETHERMIND METRICSCONFIG NODENAME
- The name to display on the Grafana dashboard. Defaults to "Nethermind"
- .
- --Metrics.PushGatewayUrl
- NETHERMIND_METRICSCONFIG_PUSHGATEWAYURL
- The Prometheus Pushgateway instance URL.

Mining

- · --Mining.Enabled
- NETHERMIND_MININGCONFIG_ENABLED
- · Whether to produce blocks. Allowed values:true
- false
- . Defaults tofalse
- .

Network

- --Network.Bootnodes
- NETHERMIND NETWORKCONFIG BOOTNODES
- · A comma-separated enode list to be used as boot nodes.
- --Network.DiagTracerEnabled
- NETHERMIND NETWORKCONFIG DIAGTRACERENABLED
- · Whether to enable a verbose diagnostic tracing. Allowed values:true
- false

- · . Defaults tofalse
- .
- · --Network.DiscoveryDns
- NETHERMIND NETWORKCONFIG DISCOVERYDNS
- Use tree is available through a DNS name. For the default ofethdisco.net
- , leave unspecified. Defaults tonull
- · --Network.DiscoveryPort
- NETHERMIND_NETWORKCONFIG_DISCOVERYPORT
- The UDP port number for incoming discovery connections. It's recommended to keep it the same as the TCP port (P2PPort
-) because other values have not been tested yet. Defaults to30303
- •
- --Network.EnableUPnP
- NETHERMIND NETWORKCONFIG ENABLEUPNP
- · Whether to enable automatic port forwarding via UPnP. Allowed values:true
- false
- · . Defaults tofalse
- .
- --Network.Externallp
- NETHERMIND_NETWORKCONFIG_EXTERNALIP
- The external IP. Use only when the external IP cannot be resolved automatically. Defaults tonull
- .
- --Network.Locallp
- NETHERMIND NETWORKCONFIG LOCALIP
- The local IP. Use only when the local IP cannot be resolved automatically. Defaults tonull
- .
- · --Network.MaxActivePeers
- NETHERMIND_NETWORKCONFIG_MAXACTIVEPEERS
- The max allowed number of connected peers. Defaults to 50
- .
- · --Network.MaxNettyArenaCount
- NETHERMIND_NETWORKCONFIG_MAXNETTYARENACOUNT
- The maximum DotNetty arena count. Increasing this on a high-core CPU without increasing the memory budget may reduce chunk size so much that it causes a huge memory allocation. Defaults to8
- .
- · --Network.NettyArenaOrder
- NETHERMIND NETWORKCONFIG NETTYARENAORDER
- The size of the DotNetty arena order.-1
- to depend on the memory hint. Defaults to-1
- .
- · --Network.OnlyStaticPeers
- NETHERMIND NETWORKCONFIG ONLYSTATICPEERS
- Whether to use static peers only. Allowed values:true
- false
- Defaults tofalse
- .
- --Network.P2PPort
- NETHERMIND_NETWORKCONFIG_P2PPORT
- The TCP port for incoming P2P connections. Defaults to30303
- .
- --Network.PriorityPeersMaxCount
- NETHERMIND NETWORKCONFIG PRIORITYPEERSMAXCOUNT
- The max number of priority peers. Can be overridden by a plugin. Defaults to0
- .
- · --Network.StaticPeers
- NETHERMIND_NETWORKCONFIG_STATICPEERS
- · A list of peers to keep connection for. Static peers are affected by MaxActivePeers
- . Defaults tonull
- .

Pruning

- -- Pruning. Available Space Check Enabled
- NETHERMIND PRUNINGCONFIG AVAILABLESPACECHECKENABLED
- Whether to enables available disk space check. Allowed values:true
- false
- Defaults totrue
- .
- · -- Pruning. CacheMb
- NETHERMIND_PRUNINGCONFIG_CACHEMB
- The in-memory cache size, in MB. The bigger the cache size, the bigger the disk space savings. Defaults to 1024
- .
- -- Pruning. Full Pruning Completion Behavior
- NETHERMIND_PRÜNINGCONFIG_FULLPRUNINGCOMPLETIONBEHAVIOR
- The behavior after pruning completion:

 None · : Do nothing. ShutdownOnSuccess • : Shut Nethermind down if pruning has succeeded but leave it running if failed. AlwaysShutdown • : Shut Nethermind down when pruning completes, regardless of its status. Allowed values: None ShutdownOnSuccess AlwaysShutdown · Defaults toNone --Pruning.FullPruningDisableLowPriorityWrites NETHERMIND PRUNINGCONFIG FULLPRUNINGDISABLELOWPRIORITYWRITES Whether to disable low-priority for pruning writes. Full pruning uses low-priority write operations to prevent blocking block processing. If block processing is not high-priority, set this option totrue for faster pruning. Allowed values:true false . Defaults tofalse -- Pruning. Full Pruning Max Degree Of Parallelism NETHERMIND PRUNINGCONFIG_FULLPRUNINGMAXDEGREEOFPARALLELISM The max number of parallel tasks that can be used by full pruning: Allowed values: · to use the number of logical processors · 0 · to use 25% of logical processors 。 1 • to run on single thread The recommended value depends on the type of the node: If the node needs to be responsive (serves for RPC or validator), then the recommended value is0 or-1 • If the node doesn't have many other responsibilities but needs to be able to follow the chain reliably without any delays and produce live logs, the0 o or1 · is recommended. If the node doesn't have to be responsive, has very fast I/O (like NVMe) and the shortest pruning time is to be achieved, then-1 • is recommended. Defaults to0 -- Pruning.FullPruningMemoryBudgetMb NETHERMIND PRUNINGCONFIG FULLPRUNINGMEMORYBUDGETMB The memory budget, in MB, used for the trie visit. Increasing this value significantly reduces the IOPS requirement at the expense of memory usage.0 to disable. Defaults to 4000 -- Pruning. Full Pruning Minimum Delay Hours NETHERMIND_PRUNINGCONFIG_FULLPRUNINGMINIMUMDELAYHOURS The minimum delay, in hours, between full pruning operations not to exhaust disk writes. Defaults to240 -- Pruning. Full Pruning Threshold Mb NETHERMIND PRUNINGCONFIG FULLPRUNINGTHRESHOLDMB

- The threshold, in MB, to trigger full pruning. Depends onMode andFullPruningTrigger . Defaults to 256000 • --Pruning.FullPruningTrigger NETHERMIND PRUNINGCONFIG FULLPRUNINGTRIGGER The full pruning trigger: Manual · : Triggered manually. StateDbSize • : Trigger when the state DB size is above the threshold. VolumeFreeSpace • : Trigger when the free disk space where the state DB is stored is below the threshold. Allowed values: Manual StateDbSize VolumeFreeSpace Defaults toManual --Pruning.Mode NETHERMIND_PRUNINGCONFIG_MODE The pruning mode: None • : No pruning (full archive) Memory · : In-memory pruning Full · : Full pruning Hybrid · : Combined in-memory and full pruning Allowed values: None Memory
 - Full
 - Hybrid
 - Defaults toHybrid
 - .
 - --Pruning.PersistenceInterval
 - NETHERMIND_PRUNINGCONFIG_PERSISTENCEINTERVAL
 - The block persistence frequency. If set toN
 - · , it caches after eachNth
 - block even if not required by cache memory usage. Defaults to8192

- -

Receipt

- --Receipt.CompactReceiptStore
- NETHERMIND_RECEIPTCONFIG_COMPACTRECEIPTSTORE
- · Whether to compact receipts database size at the expense of RPC performance. Allowed values:true
- false
- Defaults totrue

• .

- --Receipt.CompactTxIndex
- NETHERMIND_RECEIPTCONFIG_COMPACTTXINDEX
- · Whether to compact receipts transaction index database size at the expense of RPC performance. Allowed values:true

- false
- Defaults totrue

_

- · --Receipt.ReceiptsMigration
- NETHERMIND RECEIPTCONFIG RECEIPTSMIGRATION
- · Whether to migrate the receipts database to the new schema. Allowed values:true
- false
- Defaults tofalse

•

- --Receipt.StoreReceipts
- NETHERMIND RECEIPTCONFIG STORERECEIPTS
- Whether to store receipts after a new block is processed. This setting is independent from downloading receipts in fast sync mode.
 Allowed values:true
- false
- Defaults totrue

.

- · --Receipt.TxLookupLimit
- NETHERMIND_RECEIPTCONFIG_TXLOOKUPLIMIT
- The number of recent blocks to maintain transaction index for.0
- to never remove indices,-1
- to never index. Defaults to 2350000

• .

Seq

- · --Seq.ApiKey
- NETHERMIND_SEQCONFIG_APIKEY
- · The Seq API key.
- · --Seq.MinLevel
- NETHERMIND SEQCONFIG MINLEVEL
- The min log level to sent to Seq. Defaults toOff

.

- · --Seq.ServerUrl
- NETHERMIND_SEQCONFIG_SERVERURL
- The Seq instance URL. Defaults tohttp://localhost:5341

• .

Snapshot

- --Snapshot.Checksum
- NETHERMIND SNAPSHOTCONFIG CHECKSUM
- The SHA-256 checksum of the snapshot file. Defaults tonull

• .

- · --Snapshot.DownloadUrl
- NETHERMIND_SNAPSHOTCONFIG_DOWNLOADURL
- The URL of the snapshot file. Defaults tonull

•

- · --Snapshot.Enabled
- NETHERMIND_SNAPSHOTCONFIG_ENABLED
- Whether to enable the Snapshot plugin. Allowed values:true
- false
- Defaults tofalse

•

- · -- Snapshot. Snapshot Directory
- NETHERMIND SNAPSHOTCONFIG SNAPSHOTDIRECTORY
- The path to the directory to store the snapshot file. Defaults tosnapshot

• .

- --Snapshot.SnapshotFileName
- NETHERMIND SNAPSHOTCONFIG SNAPSHOTFILENAME
- The name of the snapshot file. Defaults tosnapshot.zip

• .

Sync

- · --Sync.AncientBodiesBarrier
- NETHERMIND SYNCCONFIG ANCIENTBODIESBARRIER
- · Experimental.
- The earliest body downloaded with fast sync whenDownloadBodiesInFastSync
- is set totrue
- . The actual value is determined as follows:
- max{ 1, min{ PivotNumber, AncientBodiesBarrier } }
- Defaults to0

•

- · --Sync.AncientReceiptsBarrier
- NETHERMIND SYNCCONFIG ANCIENTRECEIPTSBARRIER
- · Experimental.

- The earliest receipt downloaded with fast sync whenDownloadReceiptsInFastSync . The actual value is determined as follows: • max{ 1, min{ PivotNumber, max{ AncientBodiesBarrier, AncientReceiptsBarrier } } } Defaults to0 • --Sync.BlocksDbTuneDbMode NETHERMIND_SYNCCONFIG_BLOCKSDBTUNEDBMODE Experimental. Configure the blocks database for write optimizations during sync. Allowed values: Default WriteBias HeavyWrite AggressiveHeavyWrite DisableCompaction EnableBlobFiles • Defaults to Enable Blob Files --Sync.DownloadBodiesInFastSync NETHERMIND SYNCCONFIG DOWNLOADBODIESINFASTSYNC Whether to download the block bodies in the Fast sync mode. Allowed values:true false . Defaults totrue --Sync.DownloadHeadersInFastSync NETHERMIND SYNCCONFIG DOWNLOADHEADERSINFASTSYNC Whether to download the old block headers in the Fast sync mode. Iffalse , Nethermind downloads only recent blocks headers. Allowed values:true false . Defaults totrue • --Sync.DownloadReceiptsInFastSync NETHERMIND_SYNCCONFIG_DOWNLOADRECEIPTSINFASTSYNC Whether to download receipts in the Fast sync mode. This slows down the process by a few hours but allows to interact with dApps that perform extensive historical logs searches. Allowed values:true false . Defaults totrue --Sync.ExitOnSynced NETHERMIND SYNCCONFIG EXITONSYNCED Whether to shut down Nethermind once sync is finished. Allowed values:true false . Defaults tofalse • --Sync.ExitOnSyncedWaitTimeSec NETHERMIND SYNCCONFIG EXITONSYNCEDWAITTIMESEC The time, in seconds, to wait before shutting down Nethermind once sync is finished. Defaults to 60 --Sync.FastBlocks NETHERMIND SYNCCONFIG FASTBLOCKS Whether to first download blocks from the provided pivot number downwards in the Fast sync mode. This allows for parallelization of requests with many sync peers and with no need to worry about syncing a valid branch (syncing downwards to 0). You need to provide the pivot block number, hash, and total difficulty from a trusted source (e.g., Etherscan) and confirm with other sources if you want to change it. Allowed values:true false . Defaults tofalse --Sync.FastSync NETHERMIND SYNCCONFIG FASTSYNC Whether to use the Fast sync mode (the eth/63 synchronization algorithm). Allowed values:true
 - NETHERMIND_SYNCCONFIG_FASTSYNCCATCHUPHEIGHTDELTA
 In Fast sync mode, the min height threshold limit up to which the Full sync, if already on, stays on when the chain is behind the network head. If the limit is exceeded, it switches back to Fast sync. For regular usage scenarios, setting this value lower than 32 is not recommended as this can cause issues with chain reorgs. Note that the last 2 blocks are always processed in Full sync, so setting it lower than 2 has no effect. Defaults to8192

false

. Defaults tofalse

• --Sync.FastSyncCatchUpHeightDelta

- --Svnc.FixReceipts NETHERMIND SYNCCONFIG FIXRECEIPTS • Whether to enable receipts validation that checks for receipts that might be missing because of a bug. If needed, receipts are downloaded from the network. Iftrue , the pivot number must be same one used originally as it's used as a cut-off point. Allowed values:true false . Defaults tofalse
- --Sync.FixTotalDifficulty
- NETHERMIND SYNCCONFIG FIXTOTALDIFFICULTY
- Whether to recalculate the total difficulty fromFixTotalDifficultyStartingBlock
- toFixTotalDifficultyLastBlock
- . Allowed values:true
- false
- . Defaults tofalse

- --Sync.FixTotalDifficultyLastBlock
- NETHERMIND SYNCCONFIG FIXTOTALDIFFICULTYLASTBLOCK
- The last block to recalculate the total difficulty for. If not specified, the best known block is used.
- Defaults tonull

- --Sync.FixTotalDifficultyStartingBlock
- NETHERMIND SYNCCONFIG FIXTOTALDIFFICULTYSTARTINGBLOCK
- The first block to recalculate the total difficulty for. Defaults to1

- --Sync.MaxAttemptsToUpdatePivot
- NETHERMIND SYNCCONFIG MAXATTEMPTSTOUPDATEPIVOT
- The max number of attempts to update the pivot block based on the FCU message from the consensus client. Defaults to2147483647

- --Sync.MaxProcessingThreads
- NETHERMIND SYNCCONFIG MAXPROCESSINGTHREADS
- The max number of threads used for syncing.0
- to use the number of logical processors. Defaults to0

- --Sync.NetworkingEnabled
- NETHERMIND_SYNCCONFIG_NETWORKINGENABLED
- Whether to connect to peers and sync. Allowed values:true
- false
- . Defaults totrue

- --Sync.NonValidatorNode
- NETHERMIND SYNCCONFIG NONVALIDATORNODE
- Experimental.
- Whether to operate as a non-validator. Iftrue
- , the Download Receipts In Fast Sync
- andDownloadBodiesInFastSync
- can be set tofalse
- . Allowed values:true
- false
- . Defaults tofalse

- --Sync.PivotHash
- NETHERMIND_SYNCCONFIG_PIVOTHASH
- The hash of the pivot block for the Fast sync mode. Defaults tonull

- --Sync.PivotNumber
- NETHERMIND SYNCCONFIG PIVOTNUMBER
- The number of the pivot block for the Fast sync mode. Defaults to0

- --Sync.PivotTotalDifficulty
- NETHERMIND SYNCCONFIG PIVOTTOTALDIFFICULTY
- The total difficulty of the pivot block for the Fast sync mode. Defaults tonull

- --Sync.SnapSync
- NETHERMIND SYNCCONFIG SNAPSYNC
- Whether to use the Snap sync mode. Allowed values:true
- false
- . Defaults tofalse

- · --Sync.SnapSyncAccountRangePartitionCount
- NETHERMIND SYNCCONFIG SNAPSYNCACCOUNTRANGEPARTITIONCOUNT
- The number of account range partitions to create. Increases the Snap sync request concurrency. Allowed values are between between 1 and 256. Defaults to8

- --Sync.StrictMode
- NETHERMIND SYNCCONFIG STRICTMODE
- · Whether to disable some optimizations and do a more extensive sync. Useful when sync state is corrupted. Allowed values:true
- false
- · . Defaults tofalse

_

- · --Sync.SynchronizationEnabled
- NETHERMIND SYNCCONFIG SYNCHRONIZATIONENABLED
- · Whether to download and process new blocks. Allowed values:true
- false
- Defaults totrue

• .

- --Sync.TuneDbMode
- NETHERMIND_SYNCCONFIG_TUNEDBMODE
- · Experimental.
- Configure the database for write optimizations during sync. Significantly reduces the total number of writes and sync time if you are not network limited.
- · Allowed values:
 - Default
 - WriteBias
 - HeavyWrite
 - AggressiveHeavyWrite
 - DisableCompaction
 - EnableBlobFiles
- · Defaults to Heavy Write
- _
- --Sync.UseGethLimitsInFastBlocks
- NETHERMIND SYNCCONFIG USEGETHLIMITSINFASTBLOCKS
- Whether to make smaller requests, in Fast Blocks mode, to avoid Geth from disconnecting. On the Geth-heavy networks (e.g., Mainnet), it's a desired behavior while on Nethermind- or OpenEthereum-heavy networks (Goerli, Aura), it slows down the sync by a factor of ~4. Allowed values:true
- false
- Defaults totrue
- .
- --Sync.WitnessProtocolEnabled
- NETHERMIND SYNCCONFIG WITNESSPROTOCOLENABLED
- Whether to enable the Witness protocol. Allowed values:true
- false
- · . Defaults tofalse

• .

TraceStore

- · --TraceStore.BlocksToKeep
- NETHERMIND_TRACESTORECONFIG_BLOCKSTOKEEP
- The number of blocks to store, counting from the head. If0
- , all traces of the processed blocks are stored. Defaults to10000

• .

- --TraceStore.DeserializationParallelization
- NETHERMIND_TRACESTORECONFIG_DESERIALIZATIONPARALLELIZATION
- The max parallelization when deserialization requests thetrace_filter
- method.0
- to use the number of logical processors. If you experience a resource shortage, set to a low number. Defaults to0

. ..

- · --TraceStore.Enabled
- NETHERMIND_TRACESTORECONFIG_ENABLED
- Whether to enable the TraceStore plugin. If enabled, traces come from the database whenever possible. Allowed values:true
- false
- Defaults tofalse

, .

- --TraceStore.TraceTypes
- NETHERMIND_TRACESTORECONFIG_TRACETYPES
- The type of traces to store.
- · Allowed values:
 - None
 - VmTrace
- - StateDiff

- Trace Rewards · Defaults toTrace, Rewards **TxPool** • --TxPool.BlobCacheSize NETHERMIND TXPOOLCONFIG BLOBCACHESIZE The max number of full blob transactions cached in memory. The default value uses max 200MB for 6 blobs where one blob is 33MB (256 * 128KB) Defaults to 256 --TxPool.BlobsSupport NETHERMIND_TXPOOLCONFIG_BLOBSSUPPORT Blobs support mode: Disabled · : No support for blob transactions InMemory · : Blob transactions stored only in memory Storage
 - - · : Blob transactions stored in db
 - StorageWithReorgs
 - : Blob transactions stored in db with support for restoring reorganized blob transactions to blob pool
 - Allowed values:
 - Disabled
 - InMemory
 - Storage
 - StorageWithReorgs
 - Defaults toStorageWithReorgs
 - --TxPool.GasLimit
 - NETHERMIND_TXPOOLCONFIG_GASLIMIT
 - The max transaction gas allowed. Defaults tonull
 - --TxPool.HashCacheSize
 - NETHERMIND TXPOOLCONFIG HASHCACHESIZE
 - The max number of cached hashes of already known transactions. Set automatically by the memory hint. Defaults to 524288
 - --TxPool.InMemoryBlobPoolSize
 - NETHERMIND TXPOOLCONFIG INMEMORYBLOBPOOLSIZE
 - The max number of full blob transactions stored in memory. Used only if persistent storage is disabled. Defaults to512
 - --TxPool.MaxPendingBlobTxsPerSender
 - NETHERMIND_TXPOOLCONFIG_MAXPENDINGBLOBTXSPERSENDER
 - The max number of pending blob transactions per single sender.0
 - to lift the limit. Defaults to 16
 - --TxPool.MaxPendingTxsPerSender
 - NETHERMIND_TXPOOLCONFIG_MAXPENDINGTXSPERSENDER
 - The max number of pending transactions per single sender.0
 - to lift the limit. Defaults to0
 - · --TxPool.MinBaseFeeThreshold
 - NETHERMIND TXPOOLCONFIG MINBASEFEETHRESHOLD
 - The minimal percentage of the current base fee that must be surpassed by the max fee (max_fee_per_gas
 -) for the transaction to be broadcasted. Defaults to 70
 - · --TxPool.PeerNotificationThreshold
 - NETHERMIND TXPOOLCONFIG PEERNOTIFICATIONTHRESHOLD
 - The average percentage of transaction hashes from persistent broadcast sent to a peer together with hashes of the last added

transactions. Defaults to 5

- .
- --TxPool.PersistentBlobStorageSize
- NETHERMIND TXPOOLCONFIG PERSISTENTBLOBSTORAGESIZE
- The max number of full blob transactions stored in the database (increasing the number of transactions in the blob pool also results in higher memory usage). The default value uses max 13GB for 6 blobs where one blob is 2GB (16386 * 128KB). Defaults to16384
- _ ...
- · --TxPool.ReportMinutes
- NETHERMIND_TXPOOLCONFIG_REPORTMINUTES
- The current transaction pool state reporting interval, in minutes. Defaults tonull
- .
- --TxPool.Size
- NETHERMIND TXPOOLCONFIG SIZE
- The max number of transactions held in the mempool (the more transactions in the mempool, the more memory used). Defaults to 2048

• .

Wallet

- · --Wallet.DevAccounts
- NETHERMIND WALLETCONFIG DEVACCOUNTS
- The number of autogenerated developer accounts to work with. Developer accounts have private keys from 00...01
- to00...n
- . Defaults to10

• .

Environment variables

To configure Nethermind using environment variables, the following naming convention is used in all uppercase:

NETHERMIND_{NAMESPACE}CONFIG_{PROPERTY_NAME} For instance, the environment variable equivalent of the command line-JsonRpc.JwtSecretFile option isNETHERMIND_JSONRPCCONFIG_JWTSECRETFILE . For the list of configuration namespaces and their options, see Options by namespaces .

Configuration file

The configuration file is a JSON file with.cfg extension. The bundled configuration files are located in theconfigs directory and named after the network they are used for. For instance, see the Mainnet configuration filemainnet.cfg. Edit this page Last updatedonMar 26, 2024 Previous Migrating from Geth Next Sync