Previous ENV Variable Home Page

Previous home page for archival purposes.

This page is kept for archival purposes. Please See EVN variables and associated pages for updated info.

Previous ENV Page

The following are backend variables only.

Frontend ENVs are available here . You will find deprecated ENV vars on the Deprecated ENV Variables page.

Set ENV Variables with CLI

Use the export command to set variables. For example:

```
```

Copy exportETHEREUM_JSONRPC_VARIANT=nethermind exportCOIN=POA exportNETWORK=POA

```
```

Example ENV Variables Set

The following variables are set for the Gnosis Chain Blockscout Instance .Note that some variables are not included as they contain private information which should not be exposed.

?

Full ENV Variables CSV file

Last updated 4 August, 2023.

?

Time format

Can be set in format1h for 1 hour,1m for 1 minute,1s or1 for 1 second,1ms for 1 millisecond

Note : Before release 5.1.2, all environment variables of time format supported only integers in seconds (without dimensions) as values.

Available ENV Variables

This table is horizontally scrollable, version information is located in the last column. ENVs are listed by category:

- General
- Indexer
- Sanitizer
- Polygon Edge
- Rootstock
- Shibarium
- Polygon zkEVM Rollup
- Optimism Rollup
- zkSync Rollup
- Arbitrum Rollup
- Exchange Rates
- Cache
- Gas Price Oracle
- Main Page Dashboard
- Header
- Footer
- Contract
- Bridged Tokens
- Miscellaneous UI
- CSV Export
- API Rate Limit
- GraphQL API
- Specific Smart Contracts
- My Account
- Integrations *

General

Variable Required Description Default Version Need recompile Applications DATABASE_URL ✓ Variable to define the Postgres Database endpoint. (empty) all

API, Indexer TEST_DATABASE_URL

Variable to define the endpoint of the Postgres Database that is used during testing. Implemented in [#9662](#) . (empty) v6.6.0+

API, Indexer ETHEREUM_JSONRPC_VARIANT ✓ Tells the application which RPC Client the node is using (i.e.erigon ,geth ,nethermind ,besu ,filecoin , organache) ([See Client Settings for more info](#)) ganache all

API, Indexer ETHEREUM_JSONRPC_HTTP_URL ✓ The RPC endpoint used to fetch blocks, transactions, receipts, tokens. localhost:8545 all

API, Indexer DATABASE_READ_ONLY_API_URL ✓ Variable to define the Postgres Database read-only replica endpoint. If it is provided, most of the read queries from API v2 and UI would go through this endpoint. (empty) all

API TEST_DATABASE_READ_ONLY_API_URL

Variable to define the endpoint of the Postgres Database read-only replica that is used during testing. If it is provided, most of the read queries from API v2 and UI would go through this endpoint. Implemented in [#9662](#) . (empty) v6.6.0+

API DATABASE_QUEUE_TARGET

Management of [DB queue target](#) . Implemented in [#8991](#) . 50ms v5.4.0+

API, Indexer ETHEREUM_JSONRPC_TRACE_URL

The RPC endpoint specifically for the Erigon/Geth/Nethermind/Besu client used by trace_block and trace_replayTransaction. This can be used to designate a tracing node. localhost:8545 all

API, Indexer ETHEREUM_JSONRPC_WS_URL

The WebSockets RPC endpoint used to subscribe to thenewHeads subscription alerting the indexer to fetch new blocks. ws://localhost:8546 all

Indexer ETHEREUM_JSONRPC_TRANSPORT

Specifies the transport for Blockscout to connect to the Ethereum Node. Available transports arehttp andipc . Ifipc is selected, also setIPC_PATH variable. http v3.1.0+

API, Indexer ETHEREUM_JSONRPC_HTTP_INSECURE

Iftrue is set, allows insecure HTTP connections to the archive node. For instance, it allows to bypass expired SSL certificate at the archive node endpoint. Implemented in [#6573](#) (empty) v5.0.0+

API, Indexer ETHEREUM_JSONRPC_HTTP_TIMEOUT

Timeout for ethereum json rpc http requests in seconds. Implemented in [#7089](#) 60 v5.1.2+

API, Indexer ETHEREUM_JSONRPC_USER

User in basic auth for JSON RPC endpoint. Implemented in [#6897](#) (empty) v5.1.2+

API, Indexer ETHEREUM_JSONRPC_PASSWORD

Password in basic auth for JSON RPC endpoint. Implemented in [#6897](#) (empty) v5.1.2+

API, Indexer ETHEREUM_JSONRPC_HTTP_HEADERS

Custom headers for JSON RPC endpoint in form of json object, example:{"x-api-key": "nbvkhadvnbkdfav", "x-id": "ndjkfvndfkjv"} . Implemented in [#7898](#) (empty) v5.2.1+

API, Indexer ETHEREUM_JSONRPC_FALLBACK_HTTP_URL

Fallback JSON RPC HTTP url. Implemented in [#7246](#) (empty) v5.1.4+

API, Indexer ETHEREUM_JSONRPC_FALLBACK_TRACE_URL

Fallback JSON RPC trace url. Implemented in [#7246](#) (empty) v5.1.4+

API, Indexer ETHEREUM_JSONRPC_FALLBACK_ETH_CALL_URL

Fallback JSON RPCeth_call url. Implemented in [#9511](#) (empty) v6.3.0+

API, Indexer ETHEREUM_JSONRPC_WAIT_PER_TIMEOUT

Wait time for each recent timeout from node. Implemented in[#8292](#) 20s v5.2.3+

API, Indexer ETHEREUM_JSONRPC_ETH_CALL_URL

JSON RPC url for eth_call method. Implemented in[#9112](#) (empty) v6.0.0+

API, Indexer NETWORK

Environment variable for the main EVM network such as Ethereum or POA. POA all

API SUBNETWORK

Environment variable for the subnetwork such as Core or Sokol Network. This will be displayed as selected in the chains list dropdown. POA Sokol all

API IPC_PATH

Path to the IPC file of the running node if IPC transport is chosen. (empty) v2.1.1+

API, Indexer NETWORK_PATH

Used to set a network path other than what is displayed in the root directory. An example would be to add/eth/mainnet/ to the root directory. / all

API BLOCKSCOUT_HOST

Host for API endpoint examples. localhost v2.1.0+

API BLOCKSCOUT_PROTOCOL

Url scheme for blockscout. in prod envhttps is used, in dev envhttp is used v2.1.0+

API SECRET_KEY_BASE ✅ The value is used to[sign cookies](#) . Use mix phx.gen.secret to generate a new Secret Key Base string to protect production assets. (empty) all

API CHECK_ORIGIN

Used to check the origin of requests when the origin header is present. It defaults tofalse . In case of true, it will check against the host value. false all

API PORT

Default port the application runs on is 4000. 4000 all

API COIN

The coin here is checked via the CoinGecko API to obtain USD prices on graphs and other areas of the UI. POA all

API, Indexer COIN_NAME

Displayed name of the coin. Also used for "Add chain to MetaMask" button and for Account functionality as native coin name in the email letters for watch list. (empty) v4.1.2+

API EMISSION_FORMAT

Should be set toPOA if you have block emission identical to POA Network. This env var is used only ifCHAIN_SPEC_PATH is set. DEFAULT v2.0.4+

API, Indexer CHAIN_SPEC_PATH

Chain specification path (absolute file system path or URL) to import block emission reward ranges and genesis account balances from. Geth- and OpenEthereum-style specs are supported. (empty) v2.0.4+

API, Indexer PRECOMPILED_CONTRACTS_CONFIG_PATH

Precompiled contracts description path (absolute file system path or URL) to import ABI and source code of the precompiled contracts. (empty) or/app/config/assets/precompiles-arbitrum.json forarbitrum chaintype v6.5.0+

API, Indexer SUPPLY_MODULE

This environment variable is used by the RSK in order to tell the application how to calculate the total supply of the chain. Available values isRSK (empty) all

API, Indexer POOL_SIZE

Variable to define the number of database connections allowed excluding read-only API endpoints requests. 50 all

API, Indexer POOL_SIZE_API

Variable to define the number of database connections allowed for read-only API endpoints requests. 50 v4.1.0+

API ECTO_USE_SSL

Production environment variable to use SSL on Ecto queries. true all

API, Indexer HEART_BEAT_TIMEOUT

Production environment variable to restart the application in the event of a crash. 30 all

API, Indexer HEART_COMMAND

Production environment variable to restart the application in the event of a crash. (empty) all

API, Indexer ELIXIR_VERSION

Elixir version to install on the node before Blockscout deploy. It is used in bash script in Terraform / Ansible deployment script (empty) all

API, Indexer DISABLE_WEBAPP

Iftrue , endpoints to webapp are hidden (compile-time). Also, enabling it makes notifications go throughdb_notify false v2.0.3+ ✅ API, Indexer API_V1_READ_METHODS_DISABLED

Iftrue , read-only endpoints to API v1 are hidden (compile-time). false v5.1.5+ ✅ API API_V1_WRITE_METHODS_DISABLED

Iftrue , write endpoints to API v1 are hidden (compile-time). false v5.1.5+ ✅ API DISABLE_API

Iftrue , endpoint is not started. Set this if you want to use an indexer-only setup. Implemented i[#10032](#) false v6.6.0+

API, Indexer WEBAPP_URL

Link to web application instance, e.g.protocol://host/path (empty) v2.0.3+

API API_URL

Link to API instance, e.g.protocol://host/path (empty) v2.0.3+

API API_V2_ENABLED

Enable API V2. Implemented in[#6361](#) (v5.0.0+), defaulttrue since[#8802](#) true v5.3.2+

API API_SENSITIVE_ENDPOINTS_KEY

API key to protect some sensitive endpoints. Implemented in[#7355](#) (empty) v5.1.5+

API CHECKSUM_ADDRESS_HASHES

If set totrue , redirects to checksummed version of address hashes. true v3.1.0+

API CHECKSUM_FUNCTION

Defines checksum address function. 2 available values:rsk ,eth eth v2.0.1+

API RESTRICTED_LIST

A comma-separated list of addresses to enable restricted access to them. (empty) v3.3.3+

API RESTRICTED_LIST_KEY

A key to access addresses listed inRESTRICTED_LIST variable. Can be passed via query param to the page's URL:?key=... (empty) v3.3.3+

API CHAIN_TYPE

Specifies the model of data, enables fetchers, specific to the chain. Available values areethereum ,optimism ,arbitrum ,polygon_zkevm ,polygon_edge ,rsk ,shibarium ,stability ,suave ,zetachain ,filecoin ,default . default v5.3.0+ ✅ API, Indexer CHAIN_ID

Chain ID of the network. For instance, 100 in the case of xDai chain. (empty) v3.7.0+

API, Indexer JSON_RPC

JSON RPC endpoint of the chain for the WalletConnect integration. Implemented in [#4931](#) (empty) v4.1.0+

API, Indexer HEALTHY_BLOCKS_PERIOD

New blocks indexed max delay in /health API endpoint [Time format](#) . Implemented in [#2294](#) 5 m v2.0.2+

API, Indexer NEW_TAGS

Add public tag labels. More info in [#6316](#) (empty) v5.0.0+

API CUSTOM_CONTRACT_ADDRESSES_{tag_name}

Specify addresses for some label. More info in [#6316](#) (empty) v5.0.0+

API SESSION_COOKIE_DOMAIN

Value of this env will be added to domain of session cookie. Implemented in [#6544](#) (empty) v5.0.0+

API DECODE_NOT_A_CONTRACT_CALLS

Allows to decode contract calls directed to addresses which are not contracts. Implemented in [#6541](#) false v5.1.0+ ✅ API EIP_1559_ELASTICITY_MULTIPLIER

EIP-1559 elasticity multiplier. Implemented in [#7253](#) 2 v5.1.3+

API EIP_1559_BASE_FEE_MAX_CHANGE_DENOMINATOR

EIP-1559 base fee max change denominator. Implemented in [#9202](#) 8 v6.2.0+

API TOKEN_INSTANCE_OWNER_MIGRATION_CONCURRENCY

Concurrency of new fields backfiller implemented in [#8386](#) 5 v5.3.0+

API, Indexer TOKEN_INSTANCE_OWNER_MIGRATION_BATCH_SIZE

Batch size of new fields backfiller implemented in [#8386](#) 50 v5.3.0+

API, Indexer TOKEN_INSTANCE_OWNER_MIGRATION_ENABLED

Enable of backfiller from [#8386](#) implemented in [#8752](#) false v5.3.2+

API, Indexer TOKEN_ID_MIGRATION_FIRST_BLOCK

Bottom block for token id migration. Implemented in [#6391](#) 0 v5.0.0+

API, Indexer TOKEN_ID_MIGRATION_CONCURRENCY

Number of workers performing the token id migration. Implemented in [#6391](#) 1 v5.0.0+

API, Indexer TOKEN_ID_MIGRATION_BATCH_SIZE

Interval of token transfer block numbers processed by a token id migration worker at a time. Implemented in [#6391](#) 500 v5.0.0+

API, Indexer ADDRESSES_TABS_COUNTERS_TTL

TTL for cached tabs counters (works only for counters which are < 51, if counter >= 51, then ttl == :infinity). Implemented in [#8512](#) 10m v5.3.0+

API API_INTERNAL_TRANSACTIONS_INDEXING_FINISHED_THRESHOLD

In the case when the 1st tx in the chain already has internal transactions, If the number of blocks in pending_block_operations is less than the value in this env var, Blockscout will consider, that indexing of internal transactions finished, otherwise, it will consider, that indexing is still taking place and the indexing banner will appear at the top. Implemented in [#7576](#) . 1000 v5.2.0+

API DATABASE_EVENT_URL

Variable to define the Postgres Database endpoint that will be used by event listener process. Applicable for separate indexer and API setup. More info in related PR. Implemented in [#10164](#) . (empty) v6.7.0+

API

Indexer management

Variable Required Description Default Version Application BLOCK_TRANSFORMER

Transformer for blocks: base or clique. base v1.3.4+ Indexer DISABLE_INDEXER

Iftrue , indexer application doesn't run. false v2.0.3+ API, Indexer INDEXER_HIDE_INDEXING_PROGRESS_ALERT

Iftrue , indexer progress alert will be disabled even if initial catchup indexing is still in place. Implemented in[#7360](#) . false v5.1.5+ API INDEXER_DISABLE_PENDING_TRANSACTIONS_FETCHER

Iftrue , pending transactions fetcher is disabled. false v4.1.2+ Indexer INDEXER_DISABLE_INTERNAL_TRANSACTIONS_FETCHER

Iftrue , internal transactions fetcher is disabled. false v4.1.2+ Indexer INDEXER_DISABLE_BLOCK_REWARD_FETCHER

iftrue , block rewards fetcher is disabled. false v4.1.3+ Indexer INDEXER_DISABLE_ADDRESS_COIN_BALANCE_FETCHER

Iftrue , coin balances fetcher is disabled. false v4.1.3+ Indexer INDEXER_DISABLE_CATALOGED_TOKEN_UPDATER_FETCHER

Iftrue , cataloged tokens metadata fetcher is disabled. false v4.1.3+ Indexer INDEXER_MEMORY_LIMIT

Memory soft limit for the indexer. 1Gb v4.1.3+ API, Indexer INDEXER_EMPTY_BLOCKS_SANITIZER_BATCH_SIZE

Batch size for empty block sanitizer (re-fetcher). 100 v4.1.3+ Indexer INDEXER_CATCHUP_BLOCKS_BATCH_SIZE

Batch size for blocks catchup fetcher. Implemented in[#6196](#) . 10 v5.0.0+ Indexer INDEXER_CATCHUP_BLOCKS_CONCURRENCY

Concurrency for blocks catchup fetcher. Implemented in[#6196](#) . 10 v5.0.0+ Indexer INDEXER_DISABLE_EMPTY_BLOCKS_SANITIZER

Empty blocks sanitizer is disabled iftrue false v5.1.2+ Indexer DISABLE_REALTIME_INDEXER

Iftrue , realtime fetcher doesn't run false v4.1.6+ Indexer FIRST_BLOCK

The block number, where import of blocks by catchup fetcher begins from. 0 v1.3.8+ API, Indexer LAST_BLOCK

The block number, where import of blocks by catchup fetcher stops. (empty) v2.0.3+ Indexer TRACE_FIRST_BLOCK

The block number, where indexing of internal transactions begins from. 0 v4.1.0+ API, Indexer TRACE_LAST_BLOCK

The block number, where indexing of internal transactions stops. (empty) v4.1.0+ API, Indexer BLOCK_RANGES

Block ranges to import by catchup fetcher. Example:BLOCK_RANGES="1..3,123..500,30..50,500..latest" . Implemented in[#5783](#)

v4.1.7+ Indexer FETCH_REWARDS_WAY

Tells the application how to calculate block rewards, by fetching via json_rpc (trace_block) or manual by block params (manual). trace_block v4.1.4+ Indexer IPFS_GATEWAY_URL

IPFS gateway url for fetching token instances metadata from IPFS including token instance icon. https://ipfs.io/ipfs v5.3.0+ Indexer IPFS_GATEWAY_URL_PARAM_KEY

The key of the parameter to add to IPFS gateway url. Implemented in[#9898](#) . (empty)) v6.5.0+ Indexer IPFS_GATEWAY_URL_PARAM_VALUE

The value of the parameter to add to IPFS gateway url. Implemented in[#9898](#) . (empty)) v6.5.0+ Indexer IPFS_GATEWAY_URL_PARAM_LOCATION

Whether to add extra params: to query string or to the headers. Available values: query/header. Implemented in[#9898](#) . (empty)) v6.5.0+ Indexer ETHEREUM_JSONRPC_DEBUG_TRACE_TRANSACTION_TIMEOUT

Timeout fordebug_traceTransaction /debug_traceBlockByNumber JSON RPC method requests in case ofgeth archive node. Supported time formats:https://pkg.go.dev/time#ParseDuration . Introduced in[#5505](#) 5s v4.1.3+ Indexer ETHEREUM_JSONRPC_DISABLE_ARCHIVE_BALANCES

Iftrue , all the requests with the methodeth_getBalance with any block as parameter butlatest are ignored. Implemented in[#6001](#) false v5.0.0+ API, Indexer ETHEREUM_JSONRPC_PENDING_TRANSACTIONS_TYPE

Defines which method will be used for fetching pending transactions:default - default method for fetching internal transactions for currentETHEREUM_JSONRPC_VARIANT ,geth -txpool_content method will be used,parity -parity_pendingTransactions will be used. Implemented in[#6001](#) default v5.0.0+ Indexer INDEXER_INTERNAL_TRANSACTIONS_BATCH_SIZE

Batch size for internal transactions fetcher. Implemented in[#6450](#) . 10 v5.0.0+ Indexer INDEXER_INTERNAL_TRANSACTIONS_CONCURRENCY

Concurrency for internal transactions fetcher. Implemented in [#6450](#) . 4 v5.0.0+ Indexer INDEXER_BLOCK_REWARD_BATCH_SIZE

Batch size for block reward fetcher. Implemented in [#6952](#) . 10 v5.1.2+ Indexer INDEXER_BLOCK_REWARD_CONCURRENCY

Concurrency for block reward fetcher. Implemented in [#6952](#) . 4 v5.1.2+ Indexer INDEXER_RECEIPTS_BATCH_SIZE

Batch size for transaction receipts fetcher. Implemented in [#6454](#) . 250 v5.0.0+ Indexer INDEXER_RECEIPTS_CONCURRENCY

Concurrency for transaction receipts fetcher. Implemented in [#6454](#) . 10 v5.0.0+ Indexer INDEXER_COIN_BALANCES_BATCH_SIZE

Batch size for coin balances fetcher. Implemented in [#6454](#) . 100 v5.0.0+ Indexer INDEXER_COIN_BALANCES_CONCURRENCY

Concurrency for coin balances fetcher. Implemented in [#6454](#) . 4 v5.0.0+ Indexer INDEXER_TOKEN_CONCURRENCY

Concurrency for token fetcher. Implemented in [#8167](#) . 10 v5.2.2 Indexer INDEXER_TOKEN_BALANCES_BATCH_SIZE

Batch size for token balances fetcher. Implemented in [#7439](#) . 100 v5.1.5+ Indexer INDEXER_TOKEN_BALANCES_CONCURRENCY

Concurrency for token balances fetcher. Implemented in [#8167](#) . 10 v5.2.2 Indexer INDEXER_TX_ACTIONS_ENABLE

If true , transaction action indexer is active. Implemented in [#6582](#) . false v5.1.0+ Indexer INDEXER_TX_ACTIONS_MAX_TOKEN_CACHE_SIZE

Maximum number of items in an internal cache of tx actions indexing process (to limit memory consumption). Implemented in [#6582](#) . 100000 v5.1.0+ Indexer INDEXER_TX_ACTIONS_REINDEX_FIRST_BLOCK

The first block of a block range for historical indexing or reindexing of tx actions. Implemented in [#6582](#) . (empty) v5.1.0+ Indexer INDEXER_TX_ACTIONS_REINDEX_LAST_BLOCK

The last block of a block range for historical indexing or reindexing of tx actions. Implemented in [#6582](#) . (empty) v5.1.0+ Indexer INDEXER_TX_ACTIONS_REINDEX_PROTOCOLS

Comma-separated names of protocols which should be indexed or reindexed on historical blocks defined by the range. Example: uniswap_v3,zkbob - only these protocols will be indexed or reindexed for the defined block range. If the value is empty string (or not defined), all supported protocols will be indexed/reindexed. This option is not applicable to realtime and catchup fetchers (it always indexes all supported protocols). Implemented in [#6582](#) . (empty) v5.1.0+ Indexer INDEXER_TX_ACTIONS_AAVE_V3_POOL_CONTRACT

Pool contract address for Aave v3 protocol. If not defined, Aave transaction actions are ignored by the indexer. Implemented in [#7185](#) . (empty) v5.1.3+ Indexer INDEXER_TX_ACTIONS_UNISWAP_V3_FACTORY_CONTRACT

UniswapV3Factory contract address. Implemented in [#7312](#) . 0x1F98431c8aD98523631AE4a59f267346ea31F984 v5.1.4+ Indexer INDEXER_TX_ACTIONS_UNISWAP_V3_NFT_POSITION_MANAGER_CONTRACT

NonfungiblePositionManager contract address for Uniswap v3. Implemented in [#7312](#) . 0xC36442b4a4522E871399CD717aBDD847Ab11FE88 v5.1.4+ Indexer INDEXER_CATCHUP_MISSING_RANGES_BATCH_SIZE

Batch size for missing ranges collector. Implemented in [#6583](#) . 100000 v5.0.0+ Indexer MIN_MISSING_BLOCK_NUMBER_BATCH_SIZE

Batch size for min missing block number updater. Implemented in [#6583](#) . 100000 v5.0.0+ API, Indexer INDEXER_INTERNAL_TRANSACTIONS_TRACER_TYPE

Tracer type for debug_traceTransaction /debug_traceBlockByNumber requests for geth-like nodes. Possible values are: js to use custom Blockscout js tracer, call_tracer to use built-in callTracer geth tracer, opcode to use built-in Struct/opcode logger geth tracer, polygon_edge to work with Polygon edge nodes. Implemented in [#6721](#) ,[#7513](#) call_tracer v5.1.0+ Indexer INDEXER_TOKEN_INSTANCE_RETRY_MAX_REFETCH_INTERVAL

Maximum interval between attempts to fetch token instance metadata. [Time format](#) . Implemented in [#10027](#) . 168h v6.7.0+ Indexer INDEXER_TOKEN_INSTANCE_RETRY_EXPONENTIAL_TIMEOUT_BASE

Base to calculate exponential timeout. Implemented in [#10027](#) . 2 v6.7.0+ Indexer INDEXER_TOKEN_INSTANCE_RETRY_EXPONENTIAL_TIMEOUT_COEFF

Coefficient to calculate exponential timeout. Implemented in [#10027](#) . 100 v6.7.0+ Indexer INDEXER_TOKEN_INSTANCE_RETRY_CONCURRENCY

Concurrency for retry token instance fetcher. Implemented in [#7286](#) . 10 v5.1.4+ Indexer INDEXER_TOKEN_INSTANCE_REALTIME_CONCURRENCY

Concurrency for realtime token instance fetcher. Implemented in [#7286](#) . 10 v5.1.4+ Indexer INDEXER_TOKEN_INSTANCE_SANITIZE_CONCURRENCY

Concurrency for sanitize token instance fetcher. Implemented in [#7286](#) . 10 v5.1.4+ Indexer INDEXER_DISABLE_TOKEN_INSTANCE_RETRY_FETCHER

If true , retry token instance fetcher doesn't run false v5.1.4+ Indexer INDEXER_DISABLE_TOKEN_INSTANCE_REALTIME_FETCHER

If true , realtime token instance fetcher doesn't run false v5.1.4+ Indexer INDEXER_TOKEN_INSTANCE_REALTIME_RETRY_ENABLED

If true , realtime token instance fetcher will retry once on 404 and 500 error. Implemented in [#10036](#) . false v6.6.0+ Indexer INDEXER_TOKEN_INSTANCE_REALTIME_RETRY_TIMEOUT

Timeout for retry set by INDEXER_TOKEN_INSTANCE_REALTIME_RETRY_ENABLED [Time format](#) . Implemented in [#10036](#) . 5s v6.6.0+ Indexer INDEXER_DISABLE_TOKEN_INSTANCE_SANITIZE_FETCHER

If true , sanitize token instance fetcher doesn't run false v5.1.4+ Indexer INDEXER_TOKEN_INSTANCE_USE_BASE_URI_RETRY

If true , and request to tokenURI(tokenId) failed with VM execution error , Blockscout will make request to baseURI and try to request metadata from baseURI + tokenId false v6.2.0+ Indexer INDEXER_REALTIME_FETCHER_MAX_GAP

Max gap between consecutive latest blocks that will be filled by realtime fetcher. Implemented in [#7393](#) 1000 v5.1.5+ Indexer INDEXER_DISABLE_WITHDRAWALS_FETCHER

If true , withdrawals fetcher is disabled. Implemented in [#6694](#) . true v5.1.5+ Indexer WITHDRAWALS_FIRST_BLOCK

The block number, where import of withdrawals by catchup fetcher begins from. Should be the block where withdrawals upgrade occured on the chain. Implemented in [#6694](#) . (empty) v5.1.5+ Indexer INDEXER_CATCHUP_BLOCK_INTERVAL

Interval between blocks catchup fetcher tasks. Implemented in [#7489](#) . 5s v5.1.5+ Indexer INDEXER_FETCHER_INIT_QUERY_LIMIT

Limit for all fetchers init queries. Implemented in [#7697](#) . 100 v5.2.0+ Indexer INDEXER_TOKEN_INSTANCE_RETRY_BATCH_SIZE

Batch size for retry token instance fetcher. Implemented in [#8313](#) 10 v5.2.3+ Indexer INDEXER_TOKEN_INSTANCE_REALTIME_BATCH_SIZE

Batch size for realtime token instance fetcher. Implemented in [#8313](#) . 1 v5.2.3+ Indexer INDEXER_TOKEN_INSTANCE_SANITIZE_BATCH_SIZE

Batch size for sanitize token instance fetcher. Implemented in [#8313](#) . 10 v5.2.3+ Indexer INDEXER_TOKEN_BALANCES_FETCHER_INIT_QUERY_LIMIT

Limit for token balance fetcher init queries. Implemented in [#8459](#) . 100000 v5.2.3+ Indexer INDEXER_COIN_BALANCES_FETCHER_INIT_QUERY_LIMIT

Limit for coin balance fetcher init queries. Implemented in [#7996](#) . 2000 v5.3.0+ Indexer INDEXER_DISABLE_TOKEN_INSTANCE_LEGACY_SANITIZE_FETCHER

If true , legacy sanitize token instance fetcher doesn't run. Appeared in [#8386](#) true v5.3.0+ Indexer INDEXER_TOKEN_INSTANCE_LEGACY_SANITIZE_CONCURRENCY

Concurrency for legacy sanitize token instance fetcher doesn't run. Appeared in [#8386](#) 2 v5.4.0+ Indexer INDEXER_TOKEN_INSTANCE_LEGACY_SANITIZE_BATCH_SIZE

Batch size for legacy sanitize token instance fetcher doesn't run. Appeared in [#8386](#) 10 v5.3.0+ Indexer INDEXER_DISABLE_TOKEN_INSTANCE_ERC_1155_SANITIZE_FETCHER

If true , erc-1155-sanitize token instance fetcher doesn't run. Implemented in [#9226](#) . false v6.2.0+ Indexer INDEXER_DISABLE_TOKEN_INSTANCE_ERC_721_SANITIZE_FETCHER

If true , erc-721-sanitize token instance fetcher doesn't run. Implemented in [#9226](#) . false v6.2.0+ Indexer INDEXER_TOKEN_INSTANCE_ERC_1155_SANITIZE_CONCURRENCY

Concurrency for erc-1155-sanitize token instance fetcher. Implemented in [#9226](#) . 2 v6.2.0+ Indexer INDEXER_TOKEN_INSTANCE_ERC_721_SANITIZE_CONCURRENCY

Concurrency forerc-721-sanitize token instance fetcher. Implemented in[#9226](#) . 2 v6.2.0+ Indexer INDEXER_TOKEN_INSTANCE_ERC_1155_SANITIZE_BATCH_SIZE

Batch size forerc-1155-sanitize token instance fetcher. Implemented in[#9226](#) . 10 v6.2.0+ Indexer INDEXER_TOKEN_INSTANCE_ERC_721_SANITIZE_BATCH_SIZE

Batch size forerc-721-sanitize token instance fetcher. Implemented in[#9226](#) . 10 v6.2.0+ Indexer INDEXER_EMPTY_BLOCKS_SANITIZER_INTERVAL

Interval for empty block sanitizer. Implemented in[#8658](#) 5m v5.3.0+ Indexer ETHEREUM_JSONRPC_ARCHIVE_BALANCES_WINDOW

Max block number gap from latest for which balances requests can be processed whenETHEREUM_JSONRPC_DISABLE_ARCHIVE_BALANCES env var is set totrue . Implemented in[#8673](#) 200 v5.3.1+ API, Indexer DISABLE_CATCHUP_INDEXER

Iftrue , catchup fetcher doesn't run false v5.3.2+ Indexer TRACE_BLOCK_RANGES

Block ranges for traceable blocks. Example:TRACE_BLOCK_RANGES="1..3,123..500,30..50,500..latest" . Implemented in[#8960](#) (empty) v5.4.0+ API, Indexer ETHEREUM_JSONRPC_GETH_TRACE_BY_BLOCK

Enable tracing by block for geth variant. Implemented in[#9072](#) false v6.1.0+ Indexer INDEXER_GRACEFUL_SHUTDOWN_PERIOD

Time that will be given to the block fetchers when stopping the application before they are killed. Implemented in[#9729](#) 5m v6.5.0+ Indexer MISSING_BALANCE_OF_TOKENS_WINDOW_SIZE

Minimal blocks count until the next token balance request will be executed for tokens that doesn't implementbalanceOf function. Implemented in[#10142](#) 100 v6.7.0+ Indexer ETHEREUM_JSONRPC_GETH_ALLOW_EMPTY_TRACES

Allow transactions to not have internal transactions. Implemented in[#10200](#) false v6.7.0+ Indexer

Denormalization management

Variable Required Description Default Version Application DENORMALIZATION_MIGRATION_BATCH_SIZE

Number of transactions to denormalize (add block timestamp and consensus) in the batch. 500 v6.0.0-beta API, Indexer DENORMALIZATION_MIGRATION_CONCURRENCY

Number of parallel denormalization transaction batches processing. 10 v6.0.0-beta API, Indexer TOKEN_TRANSFER_TOKEN_TYPE_MIGRATION_BATCH_SIZE

Number of token transfers to denormalize (add token_type) in the batch. 100 v6.3.0+ API, Indexer TOKEN_TRANSFER_TOKEN_TYPE_MIGRATION_CONCURRENCY

Number of parallel denormalization token transfer batches processing. 1 v6.3.0+ API, Indexer SANITIZE_INCORRECT_NFT_BATCH_SIZE

Number of token transfers to sanitize in the batch. 100 v6.3.0+ API, Indexer SANITIZE_INCORRECT_NFT_CONCURRENCY

Number of parallel sanitizing token transfer batches processing. 1 v6.3.0+ API, Indexer

Sanitizers management

Variable Required Description Default Version Application SANITIZE_INCORRECT_WETH_BATCH_SIZE

Number of token transfers to sanitize in the batch. Implemented in[#10134](#) 100 v6.7.0+ API, Indexer SANITIZE_INCORRECT_WETH_CONCURRENCY

Number of parallel sanitizing token transfer batches processing. Implemented in[#10134](#) 1 v6.7.0+ API, Indexer

Ethereum Management

Variable Required Description Default Version Application INDEXER_BEACON_RPC_URL

The Beacon Chain RPC endpoint used to fetch blob sidecars. Required ifINDEXER_OPTIMISM_L1_BATCH_START_BLOCK is not empty. Implemented in[#9168](#) . http://localhost:5052 v6.2.0+ Indexer INDEXER_DISABLE_BEACON_BLOB_FETCHER

Iftrue the fetcher of Beacon data blobs won't be started, new transaction and block fields still will be extracted. Implemented in[#9168](#) . false v6.2.0+ Indexer INDEXER_BEACON_BLOB_FETCHER_SLOT_DURATION

Slot duration in the Beacon Chain in seconds. Required ifINDEXER_OPTIMISM_L1_BATCH_START_BLOCK is not empty. Implemented in[#9168](#) . 12 v6.2.0+ Indexer INDEXER_BEACON_BLOB_FETCHER_REFERENCE_SLOT

Any past finalized Beacon Chain slot number. Used as reference for blob inclusion slot calculations. Required if INDEXER_OPTIMISM_L1_BATCH_START_BLOCK is not empty. Implemented in [#9168](#) . 8000000 v6.2.0+ Indexer INDEXER_BEACON_BLOB_FETCHER_REFERENCE_TIMESTAMP

UTC timestamp of the Beacon Chain slot specified in INDEXER_BEACON_BLOB_FETCHER_REFERENCE_SLOT . Used as reference for blob inclusion slot calculations. Required if INDEXER_OPTIMISM_L1_BATCH_START_BLOCK is not empty. Implemented in [#9168](#) . 1702824023 v6.2.0+ Indexer INDEXER_BEACON_BLOB_FETCHER_START_BLOCK

Beacon Chain blob fetcher start block. On start-up, indexer will only look for missed blobs beyond this block number. It's recommended to set this block to the first block after the Dencun hardfork. Implemented in [#9168](#) . 19200000 v6.2.0+ Indexer INDEXER_BEACON_BLOB_FETCHER_END_BLOCK

Beacon Chain blob fetcher end block. On start-up, indexer will only look for missed blobs before this block number. If set to 0 , then all recent till latest will be traversed. Implemented in [#9168](#) . 0 v6.2.0+ Indexer

Polygon Edge Management

Variable Required Description Default Version Application INDEXER_POLYGON_EDGE_L1_RPC

The RPC endpoint for L1 used to fetch deposit or withdrawal events. Implemented in [#8180](#) . (empty) v5.3.0+ Indexer INDEXER_POLYGON_EDGE_L1_EXIT_HELPER_CONTRACT

The address of ExitHelper contract on L1 (root chain) used to fetch withdrawal exits. Required for withdrawal events indexing. Implemented in [#8180](#) . (empty) v5.3.0+ Indexer INDEXER_POLYGON_EDGE_L1_WITHDRAWALS_START_BLOCK

The number of start block on L1 (root chain) to index withdrawal exits. If the table of withdrawal exits is not empty, the process will continue indexing from the last indexed message. If empty or not defined, the withdrawal exits are not indexed. Implemented in [#8180](#) . (empty) v5.3.0+ Indexer INDEXER_POLYGON_EDGE_L1_STATE_SENDER_CONTRACT

The address of StateSender contract on L1 (root chain) used to fetch deposits. Required for deposit events indexing. Implemented in [#8180](#) . (empty) v5.3.0+ Indexer INDEXER_POLYGON_EDGE_L1_DEPOSITS_START_BLOCK

The number of start block on L1 (root chain) to index deposits. If the table of deposits is not empty, the process will continue indexing from the last indexed message. If empty or not defined, the deposits are not indexed. Implemented in [#8180](#) . (empty) v5.3.0+ Indexer INDEXER_POLYGON_EDGE_L2_STATE_SENDER_CONTRACT

The address of L2StateSender contract on L2 (child chain) used to fetch withdrawals. Required for withdrawal events indexing. Implemented in [#8180](#) . (empty) v5.3.0+ Indexer INDEXER_POLYGON_EDGE_L2_WITHDRAWALS_START_BLOCK

The number of start block on L2 (child chain) to index withdrawals. If the table of withdrawals is not empty, the process will fill gaps and then continue indexing from the last indexed message. If empty or not defined, the withdrawals are not indexed. Implemented in [#8180](#) . (empty) v5.3.0+ Indexer INDEXER_POLYGON_EDGE_L2_STATE_RECEIVER_CONTRACT

The address of StateReceiver contract on L2 (child chain) used to fetch deposit executes. Required for deposit events indexing. Implemented in [#8180](#) . (empty) v5.3.0+ Indexer INDEXER_POLYGON_EDGE_L2_DEPOSITS_START_BLOCK

The number of start block on L2 (child chain) to index deposit executes. If the table of deposit executes is not empty, the process will fill gaps and then continue indexing from the last indexed message. If empty or not defined, the deposit executes are not indexed. Implemented in [#8180](#) . (empty) v5.3.0+ Indexer INDEXER_POLYGON_EDGE_ETH_GET_LOGS_RANGE_SIZE

Block range size for eth_getLogs request in Polygon Edge indexer modules. Implemented i [#8180](#) . (empty) v5.3.0+ Indexer

Rootstock management

Variable Required Description Default Version Application ROOTSTOCK_REMASC_ADDRESS

The address hash of remasc address on Rootstock chain. Implemented in [#8542](#) .

v5.3.0+ API ROOTSTOCK_BRIDGE_ADDRESS

The address hash of bridge address on Rootstock chain. Implemented in [#8542](#) .

v5.3.0+ API INDEXER_DISABLE_ROOTSTOCK_DATA_FETCHER

If true the fethcer of Rootstock specific fields for blocks that are already in the database won't be started, fields from new blocks will be extracted. Implemented in [#8742](#) .

v5.3.2+ Indexer INDEXER_ROOTSTOCK_DATA_FETCHER_INTERVAL

The interval between fetching the next INDEXER_ROOTSTOCK_DATA_FETCHER_DB_BATCH_SIZE blocks from the database and the node, used to configure the load on the database and JSON-RPC node. Implemented in [#8742](#) .

v5.3.2+ Indexer INDEXER_ROOTSTOCK_DATA_FETCHER_BATCH_SIZE

The number of requests in one JSON-RPC batch request, used to configure the load or RPS on JSON-RPC node. Implemented in[#8742](#) .

v5.3.2+ Indexer INDEXER_ROOTSTOCK_DATA_FETCHER_CONCURRENCY

The number of simultaneous requests to the JSON-RPC node, used to configure the load or RPS on JOSN-RPC node. Implemented in[#8742](#) .

v5.3.2+ Indexer INDEXER_ROOTSTOCK_DATA_FETCHER_DB_BATCH_SIZE

The number of blocks that are fetched from the database in one database query. Implemented i[#8742](#) .

v5.3.2+ Indexer

Shibarium Management

Variable Required Description Default Version Application INDEXER_SHIBARIUM_L1_RPC

The RPC endpoint for L1 used to fetch deposit or withdrawal events. Implemented in[#8929](#) . (empty) v6.1.0+ Indexer INDEXER_SHIBARIUM_L1_START_BLOCK

The number of start block on L1 to index L1 events. If the table of bridge operations is not empty, the process will continue indexing from the last indexed L1 event. If empty or not defined, the L1 events are not handled. Implemented in[#8929](#) . (empty) v6.1.0+ Indexer INDEXER_SHIBARIUM_L1_DEPOSIT_MANAGER_CONTRACT

The address of DepositManagerProxy contract on L1 used to fetch BONE token deposits. Required for L1 events indexing. Implemented in[#8929](#) . (empty) v6.1.0+ Indexer INDEXER_SHIBARIUM_L1_ETHER_PREDICATE_CONTRACT

The address of EtherPredicateProxy contract on L1 used to fetch ETH deposits and withdrawals. Required for L1 events indexing. Implemented in[#8929](#) . (empty) v6.1.0+ Indexer INDEXER_SHIBARIUM_L1_ERC20_PREDICATE_CONTRACT

The address of ERC20PredicateProxy contract on L1 used to fetch ERC20 token deposits and withdrawals. Required for L1 events indexing. Implemented in[#8929](#) . (empty) v6.1.0+ Indexer INDEXER_SHIBARIUM_L1_ERC721_PREDICATE_CONTRACT

The address of ERC721PredicateProxy contract on L1 used to fetch ERC721 token deposits and withdrawals. Optional for L1 events indexing. Implemented in[#8929](#) . (empty) v6.1.0+ Indexer INDEXER_SHIBARIUM_L1_ERC1155_PREDICATE_CONTRACT

The address of ERC1155PredicateProxy contract on L1 used to fetch ERC1155 token deposits and withdrawals. Optional for L1 events indexing. Implemented in[#8929](#) . (empty) v6.1.0+ Indexer INDEXER_SHIBARIUM_L1_WITHDRAW_MANAGER_CONTRACT

The address of WithdrawManagerProxy contract on L1 used to fetch BONE token withdrawals. Required for L1 events indexing. Implemented in[#8929](#) . (empty) v6.1.0+ Indexer INDEXER_SHIBARIUM_L2_START_BLOCK

The number of start block on L2 to index L2 events. If the table of bridge operations is not empty, the process will continue indexing from the last indexed L2 event. If empty or not defined, the L2 events are not handled. Implemented in[#8929](#) . (empty) v6.1.0+ Indexer INDEXER_SHIBARIUM_L2_CHILD_CHAIN_CONTRACT

The address of ChildChain contract on L2 used to fetch BONE token deposits. Required for L2 events indexing. Implemented in[#8929](#) . (empty) v6.1.0+ Indexer INDEXER_SHIBARIUM_L2_WETH_CONTRACT

The address of WETH contract on L2 used to fetch ETH deposits and withdrawals. Required for L2 events indexing. Implemented in[#8929](#) . (empty) v6.1.0+ Indexer INDEXER_SHIBARIUM_L2_BONE_WITHDRAW_CONTRACT

The address of a contract which emitsWithdraw event on L2. Used to fetch BONE token withdrawals. Required for L2 events indexing. Implemented in[#8929](#) . (empty) v6.1.0+ Indexer

Polygon zkEVM Rollup management

Variable Required Description Default Version Application INDEXER_POLYGON_ZKEVM_BATCHES_ENABLED

Enables Polygon zkEVM batches fetcher. Implemented in[#7584](#) . false v5.3.1+ Indexer INDEXER_POLYGON_ZKEVM_BATCHES_CHUNK_SIZE

The number of Polygon zkEVM batches in one chunk when reading them from RPC. Implemented i[#7584](#) . 20 v5.3.1+ Indexer INDEXER_POLYGON_ZKEVM_BATCHES_RECHECK_INTERVAL

The latest batch rechecking interval, seconds. Implemented in[#7584](#) . 60 v5.3.1+ Indexer INDEXER_POLYGON_ZKEVM_L1_RPC

The RPC endpoint for L1 used to fetch Deposit or Withdrawal bridge events. Implemented i[#9098](#) .

v6.2.0+ Indexer INDEXER_POLYGON_ZKEVM_L1_BRIDGE_START_BLOCK

The number of a start block on L1 to index L1 bridge events. If the table of bridge operations is not empty, the process will continue indexing from the last indexed L1 event. If empty or not defined, the L1 events are not handled. Implemented in [#9098](#) .

v6.2.0+ Indexer INDEXER_POLYGON_ZKEVM_L1_BRIDGE_CONTRACT

The address of PolygonZkEVMBridgeV2 contract on L1 used to fetch L1 bridge events. Required for L1 bridge events indexing. Implemented in [#9098](#) .

v6.2.0+ Indexer INDEXER_POLYGON_ZKEVM_L1_BRIDGE_NETWORK_ID

L1 Network ID in terms of Polygon zkEVM bridge (0 = Ethereum Mainnet, 1 = Polygon zkEVM, 2 = Astar zkEVM, etc.). Required if INDEXER_POLYGON_ZKEVM_L1_BRIDGE_START_BLOCK or INDEXER_POLYGON_ZKEVM_L2_BRIDGE_START_BLOCK is defined. Implemented in [#9637](#) .

v6.4.0+ Indexer INDEXER_POLYGON_ZKEVM_L1_BRIDGE_ROLLUP_INDEX

L1 Rollup index in terms of Polygon zkEVM bridge (0 = Polygon zkEVM, 1 = Astar zkEVM, etc.). Not defined if L1 is Ethereum Mainnet. Required if L1 is not Ethereum Mainnet and INDEXER_POLYGON_ZKEVM_L1_BRIDGE_START_BLOCK or INDEXER_POLYGON_ZKEVM_L2_BRIDGE_START_BLOCK is defined. Implemented in [#9637](#) .

v6.4.0+ Indexer INDEXER_POLYGON_ZKEVM_L1_BRIDGE_NATIVE_SYMBOL

The symbol of the native coin on L1 to display it in the table of the bridge Deposits and Withdrawals on UI. Implemented in [#9098](#) . ETH v6.2.0+ Indexer INDEXER_POLYGON_ZKEVM_L1_BRIDGE_NATIVE_DECIMALS

The number of decimals to correctly display an amount of native coins for some Deposit or Withdrawal bridge operations on UI. Implemented in [#9098](#) . 18 v6.2.0+ Indexer INDEXER_POLYGON_ZKEVM_L2_BRIDGE_START_BLOCK

The number of a start block on L2 to index L2 bridge events. If the table of bridge operations is not empty, the process will continue indexing from the last indexed L2 event. If empty or not defined, the L2 events are not handled. Implemented in [#9098](#) .

v6.2.0+ Indexer INDEXER_POLYGON_ZKEVM_L2_BRIDGE_CONTRACT

The address of PolygonZkEVMBridgeV2 contract on L2 used to fetch L2 bridge events. Required for L2 bridge events indexing. Implemented in [#9098](#) .

v6.2.0+ Indexer INDEXER_POLYGON_ZKEVM_L2_BRIDGE_NETWORK_ID

L2 Network ID in terms of Polygon zkEVM bridge (1 = Polygon zkEVM, 2 = Astar zkEVM, etc.). Required if INDEXER_POLYGON_ZKEVM_L1_BRIDGE_START_BLOCK or INDEXER_POLYGON_ZKEVM_L2_BRIDGE_START_BLOCK is defined. Implemented in [#9637](#) .

v6.4.0+ Indexer INDEXER_POLYGON_ZKEVM_L2_BRIDGE_ROLLUP_INDEX

L2 Rollup index in terms of Polygon zkEVM bridge (0 = Polygon zkEVM, 1 = Astar zkEVM, etc.). Required if INDEXER_POLYGON_ZKEVM_L1_BRIDGE_START_BLOCK or INDEXER_POLYGON_ZKEVM_L2_BRIDGE_START_BLOCK is defined. Implemented in [#9637](#) .

v6.4.0+ Indexer

Optimism Rollup Management

Please note that these Optimism-related variables are only supported together with setting CHAIN_TYPE=optimism .

Variable Required Description Default Version Application INDEXER_OPTIMISM_L1_RPC

The RPC endpoint for L1 used to fetch transaction batches, output roots, deposits, or withdrawal events. Implemented in [#6980](#) . (empty) v6.3.0+ Indexer INDEXER_OPTIMISM_L1_PORTAL_CONTRACT

The address of OptimismPortal contract on L1 used to fetch deposits and withdrawal events. Required for deposits and withdrawal events indexing. Implemented in [#6980](#) . (empty) v6.3.0+ Indexer INDEXER_OPTIMISM_L1_BATCH_START_BLOCK

The number of start block on L1 to index transaction batches. If the table of batches is not empty, the process will continue indexing from the last indexed batch. Implemented in [#6980](#) . (empty) v6.3.0+ Indexer INDEXER_OPTIMISM_L1_BATCH_INBOX

The inbox address to index transaction batches on L1. Required if INDEXER_OPTIMISM_L1_BATCH_START_BLOCK is not empty. Implemented in [#6980](#) . (empty) v6.3.0+ Indexer INDEXER_OPTIMISM_L1_BATCH_SUBMITTER

The batch submitter address to index transaction batches on L1. Required if INDEXER_OPTIMISM_L1_BATCH_START_BLOCK is not empty. Implemented in [#6980](#) . (empty) v6.3.0+ Indexer

INDEXER_OPTIMISM_L1_BATCH_BLOCKSCOUT_BLOBS_API_URL

Defines a URL to Blockscout Blobs API to retrieve L1 blobs from that. Example for Sepolia:https://eth-sepolia.blockscout.com/api/v2/blobs . Required ifINDEXER_OPTIMISM_L1_BATCH_START_BLOCK is not empty. Implemented in[#9571](#) . (empty) v6.3.0+ Indexer INDEXER_OPTIMISM_L1_BATCH_BLOCKS_CHUNK_SIZE

Blocks chunk size to send batch RPC requests. Implemented in[#6980](#) . 4 v6.3.0+ Indexer INDEXER_OPTIMISM_L2_BATCH_GENESIS_BLOCK_NUMBER

L2 genesis block number for Optimism chain. Required ifINDEXER_OPTIMISM_L1_BATCH_START_BLOCK is defined. The block number can be found at[superchain registry](#) .[Example](#) . Implemented in[#9260](#) . (empty) v6.3.0+ Indexer INDEXER_OPTIMISM_L1_OUTPUT_ROOTS_START_BLOCK

The number of start block on L1 to index output roots. If the table of output roots is not empty, the process will continue indexing from the last indexed root. Implemented in[#6980](#) . (empty) v6.3.0+ Indexer INDEXER_OPTIMISM_L1_OUTPUT_ORACLE_CONTRACT

The address of OutputOracle contract on L1 used to fetch output roots. Required for output roots indexing whenINDEXER_OPTIMISM_L1_OUTPUT_ROOTS_START_BLOCK is not empty. Implemented in[#6980](#) . (empty) v6.3.0+ Indexer INDEXER_OPTIMISM_L1_DEPOSITS_START_BLOCK

The number of the L1 block from which deposits will be fetched. Implemented in[#6993](#) . (empty) v6.3.0+ Indexer INDEXER_OPTIMISM_L1_DEPOSITS_BATCH_SIZE

Number of blocks in a singleeth_getLogs request. Implemented in[#6993](#) . 500 v6.3.0+ Indexer INDEXER_OPTIMISM_L1_WITHDRAWALS_START_BLOCK

The number of start block on L1 to index withdrawal events. If the table of withdrawal events is not empty, the process will continue indexing from the last indexed withdrawal event. Implemented in[#6980](#) . (empty) v6.3.0+ Indexer INDEXER_OPTIMISM_L2_WITHDRAWALS_START_BLOCK

The number of start block on L2 to index withdrawals. If the table of withdrawals is not empty, the process will continue indexing from the last indexed withdrawal. Implemented in[#6980](#) . (empty) v6.3.0+ Indexer INDEXER_OPTIMISM_L2_MESSAGE_PASSER_CONTRACT

The address of L2ToL1MessagePasser contract to index withdrawals. Required ifINDEXER_OPTIMISM_L2_WITHDRAWALS_START_BLOCK is not empty. Implemented in[#6980](#) . (empty) v6.3.0+ Indexer

zkSync Rollup Management

Please note that these zkSync-related variables are only supported together with settingCHAIN_TYPE=zksync .

Variable Required Description Default Version Application INDEXER_ZKSYNC_BATCHES_ENABLED

Enables Polygon zkEVM batches fetcher. Implemented in[#9080](#) . false v6.3.0+ Indexer INDEXER_ZKSYNC_BATCHES_CHUNK_SIZE

The number of RPC calls in one request when reading data from RPC. Implemented in[#9080](#) . 50 v6.3.0+ Indexer INDEXER_ZKSYNC_NEW_BATCHES_MAX_RANGE

Maximum amount of batches requested if Blockscout does not have all batches synced. Implemented in[#9080](#) . 50 v6.3.0+ Indexer INDEXER_ZKSYNC_NEW_BATCHES_RECHECK_INTERVAL

The latest batch rechecking interval, seconds. Implemented in[#9080](#) . 60 v6.3.0+ Indexer INDEXER_ZKSYNC_L1_RPC

The RPC endpoint for L1 used to fetch status of batches. Implemented in[#9080](#) . (empty) v6.3.0+ Indexer INDEXER_ZKSYNC_BATCHES_STATUS_RECHECK_INTERVAL

The batches status rechecking interval, seconds. Implemented in[#9080](#) . 60 v6.3.0+ Indexer

Arbitrum Rollup Management

Please note that these Arbitrum-related variables are only supported together with settingCHAIN_TYPE=arbitrum .

Variable Required Description Default Version INDEXER_ARBITRUM_ARBSYS_CONTRACT

The address of ArbSys contract on the rollup. Implemented in[#9312](#) . 0x0000000000000000000000000000000000000064 INDEXER_ARBITRUM_L1_RPC

The RPC endpoint for L1 used to fetch transaction batches, block confirmations, and cross-chain messages. Implemented in[#9312](#) . INDEXER_ARBITRUM_L1_RPC_CHUNK_SIZE

The number of RPC calls in one request when reading data from RPC. Implemented in[#9312](#) . 20 INDEXER_ARBITRUM_L1_RPC_HISTORICAL_BLOCKS_RANGE

The block range size for the eth_getLogs request. Implemented in [#9312](#) . 1000 INDEXER_ARBITRUM_L1_ROLLUP_CONTRACT

The Arbitrum Rollup contract address on L1. Implemented in [#9312](#) . INDEXER_ARBITRUM_L1_ROLLUP_INIT_BLOCK

The block number where the Arbitrum rollup contract has been deployed. Implemented in [#9312](#) . 1 INDEXER_ARBITRUM_L1_COMMON_START_BLOCK

The block number at which synchronization will commence. It will proceed in both directions: discovering new batches up to the chain head, and historical batches until INDEXER_ARBITRUM_L1_ROLLUP_INIT_BLOCK . If omitted, the sychronization starts from the latest block. Implemented in [#9312](#) . latest block INDEXER_ARBITRUM_ROLLUP_CHUNK_SIZE

The number of RPC calls in one request when reading data from RPC. Implemented in [#9312](#) . 20 INDEXER_ARBITRUM_BRIDGE_MESSAGES_TRACKING_ENABLED

Enables monitoring on L1 of cross-chain messages directed to L2 and catchup on L2 of historical cross-chain messages. Implemented in [#9312](#) . INDEXER_ARBITRUM_MISSED_MESSAGES_RECHECK_INTERVAL

Interval to re-check on the rollup historical messages directed to and from the rollup, in seconds. Implemented in [#9312](#) . 3600 INDEXER_ARBITRUM_MISSED_MESSAGES_TO_L2_BLOCK_DEPTH

Amount of L2 blocks to revisit to identify historical L1-to-L2 messages in the messages catchup task by handling block transactions. Implemented in [#9312](#) . 50 INDEXER_ARBITRUM_MISSED_MESSAGES_TO_L1_BLOCK_DEPTH

Amount of L2 blocks to revisit to identify historical L2-to-L1 messages in the messages catchup task by handling logs in receipts. Implemented in [#9312](#) . 1000 INDEXER_ARBITRUM_TRACKING_MESSAGES_ON_L1_RECHECK_INTERVAL

Interval to re-check on L1 new messages directed to the rollup, in seconds. Implemented in [#9312](#) . 20 INDEXER_ARBITRUM_BATCHES_TRACKING_ENABLED

Enables monitoring of transaction batches, block confirmations, and L2-to-L1 messages executions. Implemented in [#9312](#) . INDEXER_ARBITRUM_BATCHES_TRACKING_RECHECK_INTERVAL

Interval to re-check on L1 new and historical batches, confirmations, and executions, in seconds. Implemented in [#9312](#) . 20 INDEXER_ARBITRUM_BATCHES_TRACKING_L1_FINALIZATION_CHECK_ENABLED

Whether L1 transactions related to batches, confirmations, and executions need to be monitored for finalization or not. Implemented in [#9312](#) . false INDEXER_ARBITRUM_BATCHES_TRACKING_MESSAGES_TO_BLOCKS_SHIFT

Difference between the message count and actual rollup block numbers in the SequencerBatchDelivered event on L1. Applicable for ArbitrumOne only. Implemented in [#9312](#) . 0 INDEXER_ARBITRUM_CONFIRMATIONS_TRACKING_FINALIZED

Whether to choose safe (true) or latest (false) block to discover new confirmations. This setting is required to reduce latency between the actual confirmation transaction and its discovery. Recommended to have true on rollups which use Ethereum Mainnet as L1. Determines how fast new confirmations will be discovered. Implemented in [#9312](#) . true INDEXER_ARBITRUM_NEW_BATCHES_LIMIT

The number of batches to be handled and imported at once. This is applicable for cases when dozens of batches are found in one discovery iteration, and it is necessary to import them in chunks to avoid the entire process being aborted if any errors occur. Implemented in [#9312](#) . 10

Exchange rates management

Variable Required Description Default Version Application DISABLE_EXCHANGE_RATES

Disables or enables fetching of coin price from Coingecko API. false v3.1.2+ API, Indexer EXCHANGE_RATES_MARKET_CAP_SOURCE

This environment variable is used to set source for market cap fetching. Available values coin_gecko ,mobula ,coin_market_cap . coin_gecko v5.2.3+ API, Indexer EXCHANGE_RATES_TVL_SOURCE

This environment variable is used to set source for TVL fetching. Available value is defillama . (empty) v5.3.0+ API, Indexer EXCHANGE_RATES_PRICE_SOURCE

This environment variable is used to set source for price fetching. Available values are also crypto_compare ,coin_gecko ,mobula and coin_market_cap . crypto_compare v5.2.3+ API, Indexer EXCHANGE_RATES_MOBULA_COIN_ID

Explicitly set Mobula coin ID. (empty) v6.7.0+ API, Indexer EXCHANGE_RATES_MOBULA_SECONDARY_COIN_ID

Explicitly set Mobula coin ID for secondary coin market chart. (empty) v6.7.0+ API, Indexer EXCHANGE_RATES_MOBULA_API_KEY

Mobula API key. (empty) v6.7.0+ API, Indexer EXCHANGE_RATES_MOBULA_CHAIN_ID

[Mobula](#) chain id for which token prices are fetched, see full list in the [Documentation](#) . ethereum v6.7.0+ API, Indexer EXCHANGE_RATES_COINGECKO_COIN_ID

Explicitly set CoinGecko coin ID. (empty) v4.1.4+ API, Indexer EXCHANGE_RATES_COINGECKO_SECONDARY_COIN_ID

Explicitly set CoinGecko coin ID for secondary coin market chart. Implemented in [#9483](#) . (empty) v6.3.0+ API, Indexer EXCHANGE_RATES_COINGECKO_API_KEY

CoinGecko API key. (empty) v4.1.4+ API, Indexer EXCHANGE_RATES_COINMARKETCAP_API_KEY

CoinMarketCap API key. Required, if EXCHANGE_RATES_MARKET_CAP_SOURCE ,EXCHANGE_RATES_PRICE_SOURCE is set to coin_market_cap . (empty) v4.1.4+ API, Indexer EXCHANGE_RATES_COINMARKETCAP_COIN_ID

CoinMarketCap coin id. (empty) v5.2.1+ API, Indexer EXCHANGE_RATES_COINMARKETCAP_SECONDARY_COIN_ID

CoinMarketCap coin id for secondary coin market chart. Implemented in [#9483](#) . (empty) v6.3.0+ API, Indexer EXCHANGE_RATES_DEFILLAMA_COIN_ID

DefiLlama coin id. (empty) v5.3.0+ API, Indexer EXCHANGE_RATES_FETCH_BTC_VALUE

if true explorer application will fetch btc_value for token exchange rates. Implemented in [#5671](#) . (empty) v4.1.5+ API, Indexer EXCHANGE_RATES_COINGECKO_PLATFORM_ID

[CoinGecko](#) platform id for which token prices are fetched, see full list in [/asset_platforms](#) endpoint. Implemented in [#6925](#) . ethereum v5.1.2+ API, Indexer TOKEN_EXCHANGE_RATE_INTERVAL

Interval between batch requests of token prices. Can be decreased in order to fetch prices faster if you have pro rate limit [Time format](#) . Implemented in [#6925](#) . 5s v5.1.2+ API, Indexer TOKEN_EXCHANGE_RATE_REFETCH_INTERVAL

Interval between refetching token prices, responsible for the relevance of prices [Time format](#) . Implemented in [#6925](#) . 1 hour v5.1.2+ API, Indexer TOKEN_EXCHANGE_RATE_MAX_BATCH_SIZE

Batch size of a single token price request. Implemented in [#6925](#) . 150 v5.1.2+ API, Indexer DISABLE_TOKEN_EXCHANGE_RATE

If true disables fetching of token price. Implemented in [#6925](#) . true v5.1.2+ API, Indexer EXCHANGE_RATES_CRYPTOCOMPARE_SECONDARY_COIN_SYMBOL

CryptoCompare coin symbol for secondary coin market chart. Implemented in [#9483](#) . (empty) v6.3.0+ API, Indexer EXCHANGE_RATES_COINGECKO_BASE_URL

If set, overrides the Coingecko base URL. Implemented in [#9679](#) . true v6.4.0+ API, Indexer EXCHANGE_RATES_COINGECKO_BASE_PRO_URL

If set, overrides the Coingecko Pro base URL. Implemented in [#9679](#) . true v6.4.0+ API, Indexer EXCHANGE_RATES_COINMARKETCAP_BASE_URL

If set, overrides the CoinMarketCap base URL (Free and Pro). Implemented in [#9679](#) . true v6.4.0+ API, Indexer

Cache management

Variable Required Description Default Version Need recompile Application CACHE_TXS_COUNT_PERIOD

Time interval to restart the task, which calculates the total txs count. Starting from release v6.7.0, if the value is not set, ttl value gradually increases until the default value with growth of the block numbers. [Time format](#) . 2h v4.1.3+

API, Indexer CACHE_ADDRESS_SUM_PERIOD

Time to live of addresses sum (except burn address) cache [Time format](#) . Starting from release v6.7.0, if the value is not set, ttl value gradually increases until the default value with growth of the block numbers. Introduced in [#2862](#) . 1h v4.1.3+

API, Indexer CACHE_TOTAL_GAS_USAGE_PERIOD

Interval to restart the task, which calculates the total gas usage. Starting from release v6.7.0, if the value is not set, ttl value gradually increases until the default value with growth of the block numbers. [Time format](#) . 2h v4.1.3+

API, Indexer CACHE_PBO_COUNT_PERIOD

Time interval to restart the task, which calculates the total pending_block_operations count. [Time format](#) . 20m v5.2.0+

API, Indexer CACHE_ADDRESS_TRANSACTIONS_GAS_USAGE_COUNTER_PERIOD

Interval to restart the task, which calculates gas usage at the address [Time format](#) . 30m v4.1.3+

API, Indexer CACHE_TOKEN_HOLDERS_COUNTER_PERIOD

Interval to restart the task, which calculates holders count of the token[Time format](#) . 1h v4.1.3+

API, Indexer CACHE_TOKEN_TRANSFERS_COUNTER_PERIOD

Interval to restart the task, which calculates transfers count of the token[Time format](#) . 1h v4.1.3+

API, Indexer CACHE_ADDRESS_WITH_BALANCES_UPDATE_INTERVAL

Interval to restart the task, which calculates addresses with balances[Time format](#) . 30m v4.1.3+ ✅ API, Indexer TOKEN_METADATA_UPDATE_INTERVAL

Interval to restart the task which updates token metadata[Time format](#) . 48h v2.0.1+

API, Indexer CACHE_AVERAGE_BLOCK_PERIOD

Update of average block period cache.[Time format](#) . 30m v4.1.3+

API, Indexer CACHE_MARKET_HISTORY_PERIOD

Update of market history cache.[Time format](#) . 6h v4.1.3+

API, Indexer CACHE_ADDRESS_TRANSACTIONS_COUNTER_PERIOD

Time to live of address' transactions counter.[Time format](#) . Introduced in[#3330](#) . 1h v3.4.0+

API, Indexer CACHE_ADDRESS_TOKENS_USD_SUM_PERIOD

Managing of cache invalidation period for the sum of USD value of tokens per tokens' holder address[Time format](#) . 1h v3.5.0+

API, Indexer CACHE_EXCHANGE_RATES_PERIOD

Value which is to tune the time to live of exchange rates[Time format](#) . Implemented in[#5671](#) . 10m v4.1.5+ ✅ API, Indexer TOKEN_BALANCE_ON_DEMAND_FETCHER_THRESHOLD

A threshold to invalidate token balance cache.[Time format](#) . 1h v5.1.2+

API, Indexer COIN_BALANCE_ON_DEMAND_FETCHER_THRESHOLD

A threshold to invalidate coin balance cache.[Time format](#) . 1h v5.1.2+

API, Indexer CONTRACT_CODE_ON_DEMAND_FETCHER_THRESHOLD

An initial threshold (for exponential backoff) to fetch smart-contract bytecode on-demand.[Time format](#) . Implemented in[#9708](#) . 5s v6.4.0+

API, Indexer TOKEN_INSTANCE_METADATA_REFETCH_ON_DEMAND_FETCHER_THRESHOLD

An initial threshold (for exponential backoff) to re-fetch token instance's metadata on-demand.[Time format](#) . Implemented in[#10097](#) . 5s v6.7.0+

API, Indexer CACHE_ADDRESS_TOKEN_TRANSFERS_COUNTER_PERIOD

Interval to restart the task, which calculates the number of token transfers at the address[Time format](#) . Implemented in[#4699](#) . 1h v4.0.0+

API, Indexer CACHE_BLOCK_COUNT_PERIOD

Time to live of blocks with consensus count cache. Starting from release v6.7.0, if the value is not set, ttl value gradually increases until the default value with growth of the block numbers.[Time format](#) . Introduced in[#1876](#) . 2h v4.1.3+

API, Indexer CACHE_TOTAL_GAS_USAGE_COUNTER_ENABLED

if true , enables cache for total gas usage counter. false v5.1.3+ ✅ API, Indexer MARKET_HISTORY_FETCH_INTERVAL

Interval to update data for the last day in Market History table[Time format](#) . Introduced in[#9197](#) . 1h v6.1.0+

API, Indexer CACHE_TRANSACTIONS_24H_STATS_PERIOD

Interval to update data for the last 24 hours transactions stats[Time format](#) . Introduced in[#9483](#) . 1h v6.3.0+

API, Indexer CACHE_FRESH_PENDING_TRANSACTIONS_COUNTER_PERIOD

Interval to update count of pending transactions that appeared less than half an hour ago[Time format](#) . Introduced in[#9483](#) . 5m v6.3.0+

API, Indexer CACHE_OPTIMISM_LAST_OUTPUT_ROOT_SIZE_COUNTER_PERIOD

Interval to update data for the last output root size counter Time format . Introduced in #9532 . 5m v6.3.0+

API, Indexer

Gas price oracle management

Variable Required Description Default Version Application GAS_PRICE_ORACLE_NUM_OF_BLOCKS

Gas price oracle: number of blocks to calculate average gas price from 200 v4.1.4+ API, Indexer
GAS_PRICE_ORACLE_SAFELOW_PERCENTILE

Gas price oracle: safelow percentile 35 v4.1.4+ API, Indexer GAS_PRICE_ORACLE_AVERAGE_PERCENTILE

Gas price oracle: average percentile 60 v4.1.4+ API, Indexer GAS_PRICE_ORACLE_FAST_PERCENTILE

Gas price oracle: fast percentile 90 v4.1.4+ API, Indexer GAS_PRICE_ORACLE_CACHE_PERIOD

Gas price oracle: period of gas prices update. Time format . 30s v4.1.4+ API, Indexer
GAS_PRICE_ORACLE_SIMPLE_TRANSACTION_GAS

Gas price oracle: amount of gas for a simple coin transfer. Introduced in #9044 . 21000 v6.0.0+ API, Indexer
GAS_PRICE_ORACLE_SAFELOW_TIME_COEFFICIENT

Average block time multiplied by this coefficent for safelow gas price when time from pending transactions is not available. Floats may be used. Introduced in #9582 . 5 v6.3.0+ API, Indexer GAS_PRICE_ORACLE_AVERAGE_TIME_COEFFICIENT

Average block time multiplied by this coefficent for average gas price when time from pending transactions is not available. Floats may be used. Introduced in #9582 . 3 v6.3.0+ API, Indexer GAS_PRICE_ORACLE_FAST_TIME_COEFFICIENT

Average block time multiplied by this coefficent for fast gas price when time from pending transactions is not available. Floats may be used. Introduced in #9582 . 1 v6.3.0+ API, Indexer

Main page dashboard management

Variable Required Description Default Version Application GAS_PRICE

Gas price in Gwei. If the variable is present, gas price displays on the main page. (empty) v3.3.2+ API TXS_STATS_ENABLED

Disables or enables txs per day stats gathering. true v5.1.3+ API SHOW_PRICE_CHART

Disables or enables price and market cap of coin charts on the main page. false v3.1.2+ API SHOW_PRICE_CHART_LEGEND

Allows to show price and market cap values under the chart even if price chart is not enabled via SHOW_PRICE_CHART env variable. false v5.1.4+ API SHOW_TXS_CHART

Disables or enables txs count per day chart on the main page. true v3.1.2+ API TXS_HISTORIAN_INIT_LAG

The initial delay in txs count history fetching in order to display txs count per day history chart on the main page Time format . 0 v3.1.2+ API TXS_STATS_DAYS_TO_COMPILE_AT_INIT

Number of days for fetching of history of txs count per day in order to display it in txs count per day history chart on the main page. 40 v3.1.2+ API

Header management

Variable Required Description Default Version Application LOGO

Environment variable for the header logo image location. The logo files names for different chains can be found here . /images/blockscout_logo.svg all API SHOW_TESTNET_LABEL

Enables testnet label right after logo in the navigation panel. Implemented in #5732 (empty) v4.1.6+ API TESTNET_LABEL_TEXT

The text inside the test label. Implemented in #5732 Testnet v4.1.6+ API SUPPORTED_CHAINS

An array of supported chains that display in the footer and in the chains dropdown. This var was introduced in this PR #1900 and looks like an array of JSON objects. [{ title: "POA", url: "https://blockscout.com/poa/core" }, { title: "Sokol", url: "https://blockscout.com/poa/sokol", test_net?: true }, { title: "Gnosis Chain", url: "https://gnosis.blockscout.com/" }, { title: "Ethereum Classic", url: "https://etc.blockscout.com", other?: true }, { title: "RSK", url: "https://rootstock.blockscout.com", other?: true }] v2.0.0+ API APPS_MENU

true/false. If true, the Apps navigation menu item appears. false v3.3.1+ API APPS

An array of embedded/external apps to display in Apps menu item. This var was introduced in this PR #3184 and looks like an array of JSON objects. An example of embedded link is described here # (empty) v5.0.0+ API

Footer management

Variable Required Description Default Version Application FOOTER_LOGO

Environment variable for the footer logo image location. The logo files names for different chains can be found [here](#) . /images/blockscout_logo.svg

API RELEASE_LINK

The link to Blockscout release notes in the footer. https: //github.com/poanetwork/ blockscout/releases/ tag{BLOCKSCOUT_VERSION} v1.3.5+ API BLOCKSCOUT_VERSION

Added to the footer to signify the current BlockScout version. (empty) v1.3.4+ API FOOTER_CHAT_LINK

Link in Chat menu item in the footer. Implemented in [#5719](#) . https://discord.gg/3CtNAqVMRV v4.1.6+ API FOOTER_FORUM_LINK_ENABLED

Enable forum menu item in the footer. false v5.1.3+ API FOOTER_FORUM_LINK

Link in Forum menu item in the footer. Implemented in [#5719](#) https://forum.poa.network/c/blockscout v4.1.6+ API FOOTER_TELEGRAM_LINK_ENABLED

Enable Telegram menu item in the footer. Implemented in [#7345](#) . false v5.1.4+ API FOOTER_TELEGRAM_LINK

Link in Telegram menu item in the footer. Implemented in [#7345](#) .

v5.1.4+ API FOOTER_GITHUB_LINK

Github repository. Implemented in [#5719](#) . https://github.com/blockscout/blockscout v4.1.6+ API FOOTER_LINK_TO_OTHER_EXPLORERS

true/false. If true, links to other explorers are added in the footer. (empty) v5.1.3+ API FOOTER_OTHER_EXPLORERS

The list of alternative explorers. (empty) v5.1.3+ API

Contract management

Variable Required Description Default Version Application CONTRACT_VERIFICATION_ALLOWED_SOLIDITY_EVM_VERSIONS

the comma-separated list of allowed EVM versions for Solidity contract verification. This var was introduced in [#1964](#) , updated in [#7614](#) . "homestead,tangerineWhistle,spuriousDragon,byzantium,constantinople,petersburg,istanbul,berlin,london,paris,shanghai,default" v5.2.0+ API CONTRACT_VERIFICATION_ALLOWED_VYPER_EVM_VERSIONS

the comma-separated list of allowed EVM versions for Vyper contract verification. This var was introduced in [#7614](#) . "byzantium,constantinople,petersburg,istanbul,berlin,paris,shanghai,default" v5.2.0+ API CONTRACT_VERIFICATION_MAX_LIBRARIES

Max amount of libraries to consider in smart-contract verification from flat/multi-part file(s). Implemented in [#6204](#) . (empty) v5.0.0+ API CONTRACT_MAX_STRING_LENGTH_WITHOUT_TRIMMING

Hide long contract method data. For more details [#4667](#) 2040 v4.0.0+ API CONTRACT_DISABLE_INTERACTION

If true , contract interactions via "Write contract" or "Write proxy contract" tabs are disabled. Introduced in [#7088](#) . (empty) v5.1.2+ API CONTRACT_PROXY_IMPLEMENTATION_TTL_VIA_AVG_BLOCK_TIME

If false , proxy contract implementation will be re-fetched immediately once someone opend proxy page bypassing average block time calculation. Implemented in [#9155](#) . true v6.1.0+ API CONTRACT_AUDIT_REPORTS_AIRTABLE_URL

URL of AirTable to store audit reports from users. Implemented in [#9120](#) (empty) v6.1.0+ API CONTRACT_AUDIT_REPORTS_AIRTABLE_API_KEY

Access token for CONTRACT_AUDIT_REPORTS_AIRTABLE_URL . Implemented in [#9120](#) (empty) v6.1.0+ API CONTRACT_CERTIFIED_LIST

Comma-separated list of smart-contract addresses hashes, to which "certified" flag should be applied. Implemented in [#9910](#) (empty) v6.5.0+ API WHITELISTED_WETH_CONTRACTS

Comma-separated list of smart-contract addresses hashes of WETH-like tokens which deposit and withdrawal events you'd like to index. Implemented in [#10134](#) (empty) v6.7.0+ API, Indexer WETH_TOKEN_TRANSFERS_FILTERING_ENABLED

Toggle for WETH token transfers filtering which was introduced in [#10134](#) . Implemented in [#10208](#) false v6.7.0+ API, Indexer

Bridged tokens

Variable Required Description Default Version Need recompile Application BRIDGED_TOKENS_ENABLED

Variable to enabled bridged tokens functionality. Introduced in [#9169](#) (empty) v6.1.0+ ✓ API, Indexer BRIDGED_TOKENS_ETH_OMNI_BRIDGE_MEDIATOR

OMNI bridge mediator for ETH tokens. Introduced in [#9169](#) (empty) v6.1.0+

API, Indexer BRIDGED_TOKENS_BSC_OMNI_BRIDGE_MEDIATOR

OMNI bridge mediator for BSC tokens. Introduced in [#9169](#) (empty) v6.1.0+

API, Indexer BRIDGED_TOKENS_POA_OMNI_BRIDGE_MEDIATOR

OMNI bridge mediator for POA tokens. Introduced in [#9169](#) (empty) v6.1.0+

API, Indexer BRIDGED_TOKENS_AMB_BRIDGE_MEDIATORS

AMB bridge mediator. Introduced in [#9169](#) (empty) v6.1.0+

API, Indexer BRIDGED_TOKENS_FOREIGN_JSON_RPC

Ethereum mainnet JSON RPC. Introduced in [#9169](#) (empty) v6.1.0+

API, Indexer

Misc UI management

Variable Required Description Default Version Need recompile Application SHOW_ADDRESS_MARKETCAP_PERCENTAGE

Configures market cap percentage column on the top accounts page. true v2.1.1+

API SHOW_MAINTENANCE_ALERT

Disables/enables announcement at the top of the explorer. false v3.6.0+

API MAINTENANCE_ALERT_MESSAGE

Message text of the announcement at the top of the explorer. (empty) v3.6.0+

API HIDE_BLOCK_MINER

Hides miner/validator/sequencer on block page and tiles if the value is true Implemented in [#4611](#) (empty) v4.0.0+

API DISPLAY_TOKEN_ICONS

Displays token icons from TrustWallet assets repository if true . Implemented in [#4596](#) (empty) v4.0.0+

API UNCLES_IN_AVERAGE_BLOCK_TIME

Include or exclude non-consensus blocks in avg block time calculation. Exclude if false . false v2.0.1+

API COIN_BALANCE_HISTORY_DAYS

Number of days to consider at coin balance history chart. 10 v3.1.3+

API ADMIN_PANEL_ENABLED

if true admin/* routes are available. Implemented in [#5208](#) (empty) v4.1.2+ ✓ API DISABLE_ADD_TO_MM_BUTTON

If true , "Add chain to MM" button doesn't appear. Implemented in [#6843](#) (empty) v5.1.0+

API PERMANENT_DARK_MODE_ENABLED

If true , permanent dark mode is enabled. Dark mode switcher is hidden in this case. Implemented in [#6763](#) (empty) v5.1.0+

API PERMANENT_LIGHT_MODE_ENABLED

If true , permanent light mode is enabled. Dark mode switcher is hidden. Implemented in [#6838](#) (empty) v5.1.0+

API

CSV export

reCAPTCHA v2 and v3 keys for CSV export page. Do not use both v2/v3 keys. Only one version of reCAPTCHA should be used.

Variable Required Description Default Version Application RE_CAPTCHA_SECRET_KEY

Google reCAPTCHA v2 secret key. Used by advanced CSV export. Implemented in [#4747](#) (empty) v4.0.0+ API RE_CAPTCHA_CLIENT_KEY

Google reCAPTCHA v2 client key. Used by advanced CSV export. Implemented in [#4747](#) (empty) v4.0.0+ API RE_CAPTCHA_V3_SECRET_KEY

Google reCAPTCHA v3 secret key. Used by advanced CSV export. Implemented in [#7273](#) (empty) v5.1.4+ API RE_CAPTCHA_V3_CLIENT_KEY

Google reCAPTCHA v3 client key. Used by advanced CSV export. Implemented in [#7273](#) (empty) v5.1.4+ API RE_CAPTCHA_DISABLED

Disable reCAPTCHA. Implemented in [#7416](#) false v5.1.5+ API

API rate limit management

Variable Required Description Default Version Need recompile Application API_RATE_LIMIT

A global API rate limit: number or requests per second for all users. Implemented in [#5030](#) 50 req/sec v4.1.1+

API API_RATE_LIMIT_BY_KEY

A dedicated API rate limit per key for every type of API key (static or generated from Account module). Implemented in [#5080](#) 10 req/sec v4.1.1+

API API_RATE_LIMIT_WHITELISTED_IPS

Comma-separated whitelisted IPs list with dedicated rate limit. Implemented in [#5090](#) (empty) v4.1.1+

API API_RATE_LIMIT_STATIC_API_KEY

Static API key with dedicated API rate limit. Implemented in [#5080](#) (empty) v4.1.1+

API API_RATE_LIMIT_DISABLED

If true , any type of rate limit is ignored. Implemented in [#6908](#) (empty) v5.1.0+

API API_RATE_LIMIT_IS_BLOCKSCOUT_BEHIND_PROXY

If true , then IP address of a client will be derived from proxy's headers (like X-Forwarded-For) using [RemoteIp](#) library. Implemented in [#7148](#) false v5.1.3+

API API_RATE_LIMIT_BY_WHITELISTED_IP

A dedicated API rate limit for whitelisted IPs. Implemented in [#5090](#) 50 req/sec v5.1.3+

API API_RATE_LIMIT_BY_IP

Global rate limit for an IP address for API v2 requests sent from UI [#7148](#) 3000 v5.1.3+

API API_RATE_LIMIT_HAMMER_REDIS_URL

Redis DB URL for Hammer rate limit library. Implemented in [#7148](#) (empty) v5.1.3+ ✅ API API_RATE_LIMIT_UI_V2_WITH_TOKEN

Rate limit after submitting correct CAPTCHA. Implemented in [#7148](#) 5 v5.1.3+

API API_RATE_LIMIT_TIME_INTERVAL

Time interval of rate limit. [Time format](#) . Implemented in [#7148](#) 1s v5.1.3+

API API_RATE_LIMIT_BY_IP_TIME_INTERVAL

Time interval of rate limit set by API_RATE_LIMIT_BY_IP . [Time format](#) . Implemented in [#7148](#) 5m v5.1.3+

API API_RATE_LIMIT_UI_V2_TOKEN_TTL_IN_SECONDS

TTL for token issued after submitting correct CAPTCHA for an API v2 requests from UI. In seconds. Implemented in [#7148](#) 18000 v5.1.3+

API ETH_JSON_RPC_MAX_BATCH_SIZE

Max batch size for Eth JSON RPC requests. Implemented in [#9409](#) 5 v6.3.0+

API

GraphQL API management

Variable Required Description Default Version Need recompile Application API_GRAPHQL_ENABLED

Enabling/disabling of GraphQL API. Implemented in[#9751](#) true v6.4.0+

API API_GRAPHQL_MAX_COMPLEXITY

Query/schema[max_complexity](#) of GraphQL API. Implemented in[#9751](#) 215 v6.4.0+ ✓ API API_GRAPHQL_TOKEN_LIMIT

Query[token_limit](#) of Absinthe. Implemented in[#9751](#) 1000 v6.4.0+ ✓ API API_GRAPHQL_DEFAULT_TRANSACTION_HASH

Default transaction hash in a sample query to GraphiQL. Implemented in[#9751](#) . 0x69e3923eef50eada197c3336d546936d0c994211492c9f947a24c02827568f9f v6.4.0+ ✓ API API_GRAPHQL_RATE_LIMIT

A global GraphQL API rate limit: number or requests per second for all users. Implemented in[#9771](#) 10 req/sec v6.4.0+

API API_GRAPHQL_RATE_LIMIT_BY_KEY

A dedicated GraphQL API rate limit per static key. If this limit is less than stated in API plan, thenAPI_GRAPHQL_RATE_LIMIT_BY_KEY used for key generated from Account module. Implemented in[#9771](#) 5 req/sec v6.4.0+

API API_GRAPHQL_RATE_LIMIT_STATIC_API_KEY

Static GraphQL API key with dedicated GraphQL API rate limit. Implemented in[#9771](#) (empty) v6.4.0+

API API_GRAPHQL_RATE_LIMIT_DISABLED

Iftrue , any type of rate limit is ignored. Implemented in[#9771](#) (empty) v6.4.0+

API API_GRAPHQL_RATE_LIMIT_BY_IP

Global rate limit for an IP address for GraphQL API requests[#9771](#) 500 v6.4.0+

API API_GRAPHQL_RATE_LIMIT_TIME_INTERVAL

Time interval of rate limit.[Time format](#) . Implemented in[#9771](#) 1s v6.4.0+

API API_GRAPHQL_RATE_LIMIT_BY_IP_TIME_INTERVAL

Time interval of rate limit set byAPI_GRAPHQL_RATE_LIMIT_BY_IP [Time format](#) . Implemented in[#9771](#) 5m v6.4.0+

API

Specific smart-contracts

Variable Required Description Default Version Application METADATA_CONTRACT

This environment variable is specifically used by POA Network to obtain Validators information to display in the UI. (empty) all API, Indexer VALIDATORS_CONTRACT

This environment variable is specifically used by POA Network to obtain the list of current validators. (empty) all API, Indexer KEYS_MANAGER_CONTRACT

This environment variable is specifically used by POA Network to set KeysManager proxy contract in order to obtain payout key by mining key. This needs to identify distributed reward to the validator. (empty) v3.1.2+ API, Indexer REWARDS_CONTRACT

Emission rewards contract address. This env var is used only ifEMISSION_FORMAT is set toPOA 0xeca443e8e1ab29971a45a9c57a6a9875701698a5 v2.0.4+ API, Indexer TOKEN_BRIDGE_CONTRACT

Token bridge proxy contract. ForTokenBridge supply module. 0x7301CFA0e1756B71869E93d4e4Dca5c7d0eb0AA6 v1.3.2+ API, Indexer

Account-related ENV variables

Variable Required Description Default Version Application ACCOUNT_ENABLED

Turn on/off account functionality. If value istrue , account functionality is enabled. (empty) 5.0.0 API ACCOUNT_DATABASE_URL

Account DB connection string value fromDATABASE_URL 5.0.0 API ACCOUNT_REDIS_URL

Account Redis connection string (for session storing configuration) (empty) 5.0.0 API ACCOUNT_POOL_SIZE

Account DBpool_size 50 5.0.0 API ACCOUNT_AUTH0_DOMAIN

Domain for[Ueberauth Auth0](#) (empty) 5.0.0 API ACCOUNT_AUTH0_CLIENT_ID

Auth0 client ID[Ueberauth Auth0](#) (empty) 5.0.0 API ACCOUNT_AUTH0_CLIENT_SECRET

Auth0 client secret[Ueberauth Auth0](#) (empty) 5.0.0 API ACCOUNT_PUBLIC_TAGS_AIRTABLE_URL

Airtable URL for public tag requests functionality (empty) 5.0.0 API ACCOUNT_PUBLIC_TAGS_AIRTABLE_API_KEY

Airtable API key for public tag requests functionality (empty) 5.0.0 API ACCOUNT_SENDGRID_API_KEY

Sendgrid API key for watchlist notifications functionality (empty) 5.0.0 API ACCOUNT_SENDGRID_SENDER

Sendgrid sender email for watchlist notifications functionality (empty) 5.0.0 API ACCOUNT_SENDGRID_TEMPLATE

Sendgrid email template for watchlist notifications functionality (empty) 5.0.0 API ACCOUNT_CLOAK_KEY

Account DB encryption key.[Instruction how to generate](#) (empty) 5.0.0 API ACCOUNT_VERIFICATION_EMAIL_RESEND_INTERVAL

Time before resending confirmation email. Implemented in[#7298](#) .[Time format](#) 5m v5.1.5+ API ACCOUNT_PRIVATE_TAGS_LIMIT

Limit for address & transaction tags. Implemented in[#8528](#) . 2000 v5.3.1+ API ACCOUNT_WATCHLIST_ADDRESSES_LIMIT

Limit for watch list addresses. Implemented in[#8528](#) . 15 v5.3.1+ API ACCOUNT_WATCHLIST_NOTIFICATIONS_LIMIT_FOR_30_DAYS

Per account limit for watch list notifications sent for the last 30 days. Implemented in[#8966](#) . 1000 v5.3.3+ API

Integrations

Smart-contract verifier / Eth Bytecode DB

Variable Required Description Default Version Application MICROSERVICE_SC_VERIFIER_ENABLED

If true , integration with[Rust smart-contract verifier](#) is enabled.true is the default value starting from version 6.4.0. Implemented in[#5860](#) true v5.1.3+ API MICROSERVICE_SC_VERIFIER_URL

URL of Rust smart-contract verifier. Implemented in[#5860](#) https://eth-bytecode-db.services.blockscout.com/ v5.1.3+ API MICROSERVICE_ETH_BYTECODE_DB_INTERVAL_BETWEEN_LOOKUPS

Minimal time after unsuccessful check of smart contract's sources in Eth Bytecode DB. Implemented in[#7187](#) .[Time format](#) 10m v5.1.3+ API MICROSERVICE_SC_VERIFIER_TYPE

Type of smart contract microservice could be eithereth_bytecode_db orsc_verifier . Implemented in[#7187](#) eth_bytecode_db v5.1.3+ API MICROSERVICE_ETH_BYTECODE_DB_MAX_LOOKUPS_CONCURRENCY

Maximum amount of concurrent requests for fetching smart contract's sources in Eth Bytecode DB. Implemented in[#8472](#) 10 v5.3.0+ API MICROSERVICE_SC_VERIFIER_API_KEY

API key for verification that metadata sent to verifier microservice from a trusted source. Implemented in[#8750](#) (empty) v5.3.2+ API

Sol2Uml

Variable Required Description Default Version Application MICROSERVICE_VISUALIZE_SOL2UML_ENABLED

If true , integration with[Rust sol2uml visualizer](#) is enabled. Implemented in[#6401](#) (empty) v5.1.3+ API MICROSERVICE_VISUALIZE_SOL2UML_URL

URL of Rust visualizer. Implemented in[#6401](#) (empty) v5.1.3+ API

Sig-provider

Variable Required Description Default Version Application MICROSERVICE_SIG_PROVIDER_ENABLED

If true , integration with[Rust sig-provider service](#) is enabled. Implemented in[#6541](#) (empty) v5.1.3+ API MICROSERVICE_SIG_PROVIDER_URL

URL of Rust sig-provider service. Implemented in[#6541](#) (empty) v5.1.3+ API

Blockscout ENS

Variable Required Description Default Version Application MICROSERVICE_BENS_ENABLED

If true , integration with Blockscout ENS service is enabled. Implemented in #8972 (empty) v5.4.0+ API MICROSERVICE_BENS_URL

URL of Blockscout ENS service. Implemented in #8972 (empty) v5.4.0+ API

Blockscout Account Abstraction

Variable Required Description Default Version Application MICROSERVICE_ACCOUNT_ABSTRACTION_ENABLED

If true , integration with Blockscout Account Abstraction service is enabled. Implemented in #9145 (empty) v6.1.0+ API MICROSERVICE_ACCOUNT_ABSTRACTION_URL

URL of Blockscout ENS service. Implemented in #9145 (empty) v6.1.0+ API

Tx Interpreter (Summary) Service

Variable Required Description Default Version Application MICROSERVICE_TRANSACTION_INTERPRETATION_ENABLED

If true , integration with Tx Interpreter Service is enabled. Implemented in #8957 (empty) v5.4.0+ API MICROSERVICE_TRANSACTION_INTERPRETATION_URL

URL of Tx Interpreter Service. Implemented in #8957 (empty) v5.4.0+ API

Metadata Service

Variable Required Description Default Version Application MICROSERVICE_METADATA_ENABLED

If true , integration with Metadata Service is enabled. Implemented in #9706 (empty) v6.4.0+ API MICROSERVICE_METADATA_URL

URL of Metadata Service. Implemented in #9706 (empty) v6.4.0+ API

Sourcify

Variable Required Description Default Version Application SOURCIFY_INTEGRATION_ENABLED

Enables or disables verification of contracts through Sourcify. false v5.1.3+ API SOURCIFY_SERVER_URL

URL to Sourcify backend. https://sourcify.dev/server v3.7.0+ API SOURCIFY_REPO_URL

URL to Sourcify repository with fully verified contracts. https://repo.sourcify.dev/contracts/ *

*before 3.7.1 https://repo.sourcify.dev/contracts/full_match/ v3.7.0+ API

Tenderly

Variable Required Description Default Version Application SHOW_TENDERLY_LINK

if true , "Open in Tenderly" button is displayed on the transaction page. Implemented in #4656 (empty) v4.0.0+ API TENDERLY_CHAIN_PATH

Chain path to the transaction in Tenderly. For instance, for transactions in xDai, Tenderly link looks like this https://dashboard.tenderly.co/tx/xdai/0x..., then TENDERLY_CHAIN_PATH =/xdai. Implemented in #4656 (empty) v4.0.0+ API

Datadog

Variable Required Description Default Version Application DATADOG_HOST

Host configuration setting for Datadog integration . (empty) all API DATADOG_PORT

Port configuration setting for Datadog integration . (empty} all API

Spandex

Variable Required Description Default Version Application SPANDEX_BATCH_SIZE

Spandex and Datadog configuration setting. (empty) all API SPANDEX_SYNC_THRESHOLD

Spandex and Datadog configuration setting. (empty) all API

Analytics

Variable	Required	Description	Default	Version	Need recompile	Application
MIXPANEL_TOKEN		[Mixpanel](#) project token.	(empty)	v5.0.0+	✓	API
MIXPANEL_URL		Url to use Mixpanel with proxy ([Collection via Proxy](#)).	(empty)	v5.0.0+	✓	API
AMPLITUDE_API_KEY		[Amplitude](#) API key.	(empty)	v5.0.0+	✓	API
AMPLITUDE_URL		Url to use Amplitude with proxy ([Use Domain Proxy to Relay Events](#)).	(empty)	v5.0.0+	✓	API

Solidityscan

Variable	Required	Description	Default	Version	Application
SOLIDITYSCAN_CHAIN_ID		[Solidityscan](#) Internal chain id in Solidityscan. It may not match with actual chain ID. Implemented in [#8908](#)	(empty)	v5.3.3+	API
SOLIDITYSCAN_API_TOKEN		[Solidityscan](#) API token for usage of Solidityscan API.	(empty)	v5.3.3+	API

Noves.fi

Variable	Required	Description	Default	Version	Application
NOVES_FI_BASE_API_URL		[Noves.fi API](#) base URL. Implemented in [#9056](#).	https://blockscout.noves.fi	v6.1.0+	API
NOVES_FI_CHAIN_NAME		[Noves.fi API](#) chain name. Implemented in [#9056](#).	(empty)	v6.1.0+	API
NOVES_FI_API_TOKEN		[Noves.fi API](#) token. Implemented in [#9056](#).	(empty)	v6.1.0+	API

Zerion

Variable	Required	Description	Default	Version	Application
ZERION_BASE_API_URL		[Zerion API](#) base URL. Implemented in [#9896](#).	https://api.zerion.io/v1	v6.5.0+	API
ZERION_API_TOKEN		[Zerion API](#) token. Implemented in [#9896](#).	(empty)	v6.5.0+	API

MUD framework

Variable	Required	Description	Default	Version	Application
MUD_INDEXER_ENABLED		If true, integration with [MUD](#) is enabled. Implemented in [#9869](#)	(empty)	v6.6.0+	API
MUD_DATABASE_URL		MUD indexer DB connection URL.	value from DATABASE_URL	v6.6.0+	API
MUD_POOL_SIZE		MUD indexer DB pool_size	50	v6.6.0+	API

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