

# Backend ENV variables

Page In Progress, please see [main ENV Variables](#) page for all current vars.

## General

Variable Description Parameters DATABASE\_URL Defines the Postgres Database endpoint. Required: ✓ Version: All Default: (empty) Applications: API, Indexer TEST\_DATABASE\_URL Defines the endpoint of the Postgres Database that is used during testing. Implemented in [#9662](#) . Version: v6.6.0+ Default: (empty) Applications: 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) Required: ✓ Version: All Default: ganache Applications: API, Indexer ETHEREUM\_JSONRPC\_HTTP\_URL The RPC endpoint used to fetch blocks, transactions, receipts, tokens. Required: ✓ Version: All Default: localhost:8545 Applications: API, Indexer DATABASE\_READ\_ONLY\_API\_URL Defines the Postgres Database read-only replica endpoint. If provided, most of the read queries from API v2 and UI go through this endpoint. Required: ✓ Version: All Default: (empty) Applications: API TEST\_DATABASE\_READ\_ONLY\_API\_URL Defines the endpoint of the Postgres Database read-only replica used during testing. If provided, most read queries from API v2 and UI go through this endpoint. Implemented in [#9662](#) . Version: v6.6.0+ Default: (empty) Applications: API DATABASE\_QUEUE\_TARGET Management of [DB queue target](#) . Implemented in [#8991](#) . Version: v5.4.0+ Default: 50ms Applications: 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. Version: All Default: localhost:8545 Applications: API, Indexer ETHEREUM\_JSONRPC\_WS\_URL The WebSockets RPC endpoint used to subscribe to the newHeads subscription alerting the indexer to fetch new blocks. Version: All Default: ws://localhost:8546 Applications: Indexer ETHEREUM\_JSONRPC\_TRANSPORT Specifies the transport for Blockscout to connect to the Ethereum Node. Available transports are http and ipc . If ipc is selected, also set IPC\_PATH variable. Version: v3.1.0+ Default: http Applications: API, Indexer ETHEREUM\_JSONRPC\_HTTP\_INSECURE If true 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](#) Version: v5.0.0+ Default: (empty) Applications: API, Indexer ETHEREUM\_JSONRPC\_HTTP\_TIMEOUT Timeout for ethereum json rpc http requests in seconds. Implemented in [#7089](#) Version: v5.1.2+ Default: 60 Applications: API, Indexer ETHEREUM\_JSONRPC\_USER User in basic auth for JSON RPC endpoint. Implemented in [#6897](#) Version: v5.1.2+ Default: (empty) Applications: API, Indexer ETHEREUM\_JSONRPC\_PASSWORD Password in basic auth for JSON RPC endpoint. Implemented in [#6897](#) Version: v5.1.2+ Default: (empty) Applications: API, Indexer ETHEREUM\_JSONRPC\_HTTP\_HEADERS Custom headers for JSON RPC endpoint in form of json object, example: {"x-api-key": "nbvkhadvnbkdfav", "x-id": "ndjkhvndfkhjv"} . Implemented in [#7898](#) Version: v5.2.1+ Default: (empty) Applications: API, Indexer ETHEREUM\_JSONRPC\_FALLBACK\_HTTP\_URL Fallback JSON RPC HTTP url. Implemented in [#7246](#) Version: v5.1.4+ Default: (empty) Applications: API, Indexer ETHEREUM\_JSONRPC\_FALLBACK\_TRACE\_URL Fallback JSON RPC trace url. Implemented in [#7246](#) Version: v5.1.4+ Default: (empty) Applications: API, Indexer ETHEREUM\_JSONRPC\_FALLBACK\_ETH\_CALL\_URL Fallback JSON RPC eth\_call url. Implemented in [#9511](#) Version: v6.3.0+ Default: (empty) Applications: API, Indexer ETHEREUM\_JSONRPC\_WAIT\_PER\_TIMEOUT Wait time for each recent timeout from node. Implemented in [#8292](#) Version: v5.2.3+ Default: 20s Applications: API, Indexer ETHEREUM\_JSONRPC\_ETH\_CALL\_URL JSON RPC url for eth\_call method. Implemented in [#9112](#) Version: v6.0.0+ Default: (empty) Applications: API, Indexer NETWORK Environment variable for the main EVM network such as Ethereum or POA. Version: All Default: POA Applications: API SUBNETWORK Environment variable for the subnetwork such as Core or Sokol Network. This will be displayed as selected in the chains list dropdown. Version: All Default: POA Sokol Applications: API IPC\_PATH Path to the IPC file of the running node if IPC transport is chosen. Version: v2.1.1+ Default: (empty) Applications: 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. Version: All Default: / Applications: API BLOCKSCOUT\_HOST Host for API endpoint examples. Version: v2.1.0+ Default: localhost Applications: API BLOCKSCOUT\_PROTOCOL Url scheme for blockscout. Version: v2.1.0+ Default: prod env https , dev env http Applications: API SECRET\_KEY\_BASE The value used to [sign cookies](#) . Use mix phx.gen.secret to generate a new Secret Key Base string to protect production assets. Required: ✓ Version: All Default: (empty) Applications: API CHECK\_ORIGIN Used to check the origin of requests when the origin header is present. It defaults to false . In case of true, it will check against the host value. Version: All Default: false Applications: API PORT Default port the application runs on is 4000. Version: All Default: 4000 Applications: API COIN Coin is checked via the CoinGecko API to obtain USD prices on graphs and other areas of the UI. Version: All Default: POA Applications: 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. Version: v4.1.2+ Default: (empty) Applications: API EMISSION\_FORMAT Should be set to POA if you have block emission identical to POA Network. This env var is used only if CHAIN\_SPEC\_PATH is set. Version: v2.0.4+ Default: DEFAULT Applications: 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. Version: v2.0.4+ Default: (empty) Applications: 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. Version: v6.5.0+ Default: (empty) or /app/config/assets/precompiles-arbitrum.json for arbitrum chain type Applications: API, Indexer SUPPLY\_MODULE Used by RSK in order to tell the application how to calculate the total supply of the chain. Available value is RSK Version: All Default: (empty) Applications: API, Indexer POOL\_SIZE Defines the number of database connections allowed excluding read-only API endpoints requests. Version: All Default: 50 Applications: API, Indexer POOL\_SIZE\_API Defines the number of database connections allowed for read-only API endpoints requests. Version: v4.1.0+ Default: 50 Applications: API ECTO\_USE\_SSL Production environment variable to use SSL on Ecto

queries. Version: All Default:TRUE Applications: API, Indexer HEART\_BEAT\_TIMEOUT Production environment variable to restart the application in the event of a crash. Version: All Default:30 Applications: API, Indexer HEART\_COMMAND Production environment variable to restart the application in the event of a crash. Version: All Default: (empty) Applications: 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 Version: All Default: (empty) Applications: API, Indexer DISABLE\_WEBAPP If true endpoints to webapp are hidden (compile-time). Also, enabling it makes notifications go through db\_notify Needs Recompile: ☒ Version: v2.0.3+ Default:false Applications: API, Indexer API\_V1\_READ\_METHODS\_DISABLED If true, read-only endpoints to API v1 are hidden (compile-time). Needs Recompile: ☒ Version: v5.1.5+ Default:false Applications: API API\_V1\_WRITE\_METHODS\_DISABLED If true, write endpoints to API v1 are hidden (compile-time). Needs Recompile: ☒ Version: v5.1.5+ Default:false Applications: API DISABLE\_API If true, endpoint is not started. Set this if you want to use an indexer-only setup. Implemented in [#10032](#) Version: v6.6.0+ Default:false Applications: API, Indexer WEBAPP\_URL Link to web application instance, e.g.protocol://host/path Version: v2.0.3+ Default: (empty) Applications: API API\_URL Link to API instance, e.g.protocol://host/path Version: v2.0.3+ Default: (empty) Applications: API API\_V2\_ENABLED Enable API V2. Implemented in [#6361](#) (v5.0.0+), default true since [#8802](#) Version: v5.3.2+ Default:true Applications: API API\_SENSITIVE\_ENDPOINTS\_KEY API key to protect some sensitive endpoints. Implemented in [#7355](#) Version: v5.1.5+ Default: (empty) Applications: API CHECKSUM\_ADDRESS\_HASHES If set to true, redirects to checksummed version of address hashes. Version: v3.1.0+ Default:true Applications: API CHECKSUM\_FUNCTION Defines checksum address function. 2 available values:rsk,eth Version: v2.0.1+ Default:eth Applications: API RESTRICTED\_LIST A comma-separated list of addresses to enable restricted access to them. Version: v3.3.3+ Default: (empty) Applications: API RESTRICTED\_LIST\_KEY A key to access addresses listed in RESTRICTED\_LIST variable. Can be passed via query param to the page's URL: ?key=... Version: v3.3.3+ Default: (empty) Applications: API CHAIN\_TYPE Specifies the model of data and enables fetchers specific to the chain. Available values are:ethereum,optimism,arbitrum,polygon\_zkevm,polygon\_edge,rsk,shibarium,stability,suave,zetachain,filecoin,default. Needs Recompile: ☒ Version: v5.3.0+ Default:default Applications: API, Indexer CHAIN\_ID Chain ID of the network. For instance, 100 in the case of xDai chain. Version: v3.7.0+ Default: (empty) Applications: API, Indexer JSON\_RPC JSON RPC endpoint of the chain for the WalletConnect integration. Implemented in [#4931](#) Version: v4.1.0+ Default: (empty) Applications: API, Indexer HEALTHY\_BLOCKS\_PERIOD New blocks indexed max delay in /health API endpoint. Time format. Implemented in [#2294](#) Version: v2.0.2+ Default:5m Applications: API, Indexer NEW\_TAGS Add public tag labels. More info in [#6316](#) Version: v5.0.0+ Default: (empty) Applications: API CUSTOM\_CONTRACT\_ADDRESSES\_{tag\_name} Specify addresses for some label. More info in [#6316](#) Version: v5.0.0+ Default: (empty) Applications: API SESSION\_COOKIE\_DOMAIN Value of this env will be added to domain of session cookie. Implemented in [#6544](#) Version: v5.0.0+ Default: (empty) Applications: API DECODE\_NOT\_A\_CONTRACT\_CALLS Allows decoding of contract calls directed to addresses which are not contracts. Implemented in [#6541](#) Needs Recompile: ☒ Version: v5.1.0+ Default:false Applications: API EIP\_1559\_ELASTICITY\_MULTIPLIER EIP-1559 elasticity multiplier. Implemented in [#7253](#) Version: v5.1.3+ Default:2 Applications: API EIP\_1559\_BASE\_FEE\_MAX\_CHANGE\_DENOMINATOR EIP-1559 base fee max change denominator. Implemented in [#9202](#) Version: v6.2.0+ Default:8 Applications: API TOKEN\_INSTANCE\_OWNER\_MIGRATION\_CONCURRENCY Concurrency of new fields backfiller implemented in [#8386](#) Version: v5.3.0+ Default:5 Applications: API, Indexer TOKEN\_INSTANCE\_OWNER\_MIGRATION\_BATCH\_SIZE Batch size of new fields backfiller implemented in [#8386](#) Version: v5.3.0+ Default:50 Applications: API, Indexer TOKEN\_INSTANCE\_OWNER\_MIGRATION\_ENABLED Enable of backfiller from [#8386](#) implemented in [#8752](#) Version: v5.3.2+ Default:false Applications: API, Indexer TOKEN\_ID\_MIGRATION\_FIRST\_BLOCK Bottom block for token id migration. Implemented in [#6391](#) Version: v5.0.0+ Default:0 Applications: API, Indexer TOKEN\_ID\_MIGRATION\_CONCURRENCY Number of workers performing the token id migration. Implemented in [#6391](#) Version: v5.0.0+ Default:1 Applications: 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](#) Version: v5.0.0+ Default:500 Applications: 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](#) Version: v5.3.0+ Default:10m Applications: 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 impending\_block\_operations is less than the value in this env var, Blockscout will consider that indexing of internal transactions is finished, otherwise, it will consider that indexing is still taking place and the indexing banner will appear at the top. Implemented in [#7576](#). Version: v5.2.0+ Default:1000 Applications: 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](#). Version: master Default: (empty) Applications: API

Last updated 5 hours ago