Client Setting Requirements

Supported JSON RPC Clients

BlockScout currently supports[Geth](#) ,[Erigon](#) ,[Nethermind](#) ,[Reth](#) ,[Besu](#) ,[RSKj](#) ,[Lotus](#) , and[Ganache](#) JSON RPC clients. To define the JSON RPC node variant, it's advised to define theETHEREUM_JSONRPC_VARIANT environment variable*. Correct values include:

JSON RPC Client Value Note Geth geth Default. This value is applicable for both Geth and Reth JSON RPC clients Erigonerigon It is suggested to useerigon variant for Reth JSON RPC client. Nethermind nethermind This value is applicable for Reth and deprecated OpenEthereum (aka Parity) JSON RPC clients Besu besu RSKj rsk Lotus filecoin Ganache ganache *If the variable is not set, JSON RPC variant will be chosen based onCHAIN_TYPE variable according to the mapping https://github.com/blockscout/blockscout/blob/a2625803c831fb86e38ffe0e28d94bfd697914ce/apps/ethereum_jsonrpc/lib/ethereum_jsonrpc/variant.ex#L114-L120

```

Copy defp get_default_variant do case Application.get_env(:explorer, :chain_type) do :rsk -> "rsk" :filecoin -> "filecoin" _ -> "geth" end end

```

BlockScout currently requires a full archive node in order to import every state change for every address on the target network.

Configs

Application Environment Config path Explorer Dev ? Prod ? Indexer Dev ? Prod ?

Variables to connect to JSON RPC client

Name Environment Variable Default Value Description HTTP Endpoint ETHEREUM_JSONRPC_HTTP_URL http://localhost:8545 The HTTP Endpoint is used to fetchblocks ,transactions ,receipts ,coin/token balances . Fallback HTTP Endpoint ETHEREUM_JSONRPC_FALLBACK_HTTP_URL (empty) Fallback JSON RPC HTTP url. Tracing Endpoint ETHEREUM_JSONRPC_TRACE_URL http://localhost:8545 The Tracing endpoint is used to fetchinternal transactions andblock traces . In most cases this endpoint is identical to the HTTP Endpoint. Fallback Tracing Endpoint ETHEREUM_JSONRPC_FALLBACK_TRACE_URL (empty) Fallback JSON RPC tracing url. Eth_call Requests Endpoint ETHEREUM_JSONRPC_ETH_CALL_URL (empty) JSON RPC url foreth_call method requests. Fallback Eth_call Requests Endpoint ETHEREUM_JSONRPC_FALLBACK_ETH_CALL_URL (empty) Fallback JSON RPCeth_call url. WebSockets Endpoint ETHEREUM_JSONRPC_WS_URL ws://localhost:8546 The WebSockets endpoint subscribes tonewHeads which alerts the indexer to fetch the new block from the subscription.

Geth

More information on Geth JSON-RPC[is available here](#) .

```

Copy sudo /usr/bin/geth --http --http.addr 0.0.0.0 --port 30303 --http.port 8545 --http.api debug,net,eth,shh,web3,txpool --ws.api "eth,net,web3,network,debug,txpool" --ws --ws.addr 0.0.0.0 --ws.port 8546 --ws.origins "*" *--sepolia --datadir=/rinkeby --syncmode "full" --gcmode "archive" --http.vhosts '*'*

```

Tracing and pruning: By default, state for the last 128 blocks kept in memory. Most states are garbage collected. If you are running a block explorer or other service relying on transaction tracing without an archive node (--gcmode=archive), you need to trace within this window! Alternatively, specify the "reexec" tracer option to allow regenerating historical state; and ideally switch to chain tracing which amortizes overhead across all traced blocks.

Erigon

More information on Erigon configuration[is available here](#) .

Nethermind

More information on Nethermind configuration[is available here](#) .

Reth

More information on Reth configuration[is available here](#) .

RSKj

More information on RSKj configuration[is available here](#) .

Besu

More information on Besu configuration[is available here](#) .

Lotus

More information on Lotus configuration[is available here](#) .

OpenEthereum

```

Copy --jsonrpc-interface all --jsonrpc-apis web3,eth,net,parity,pubsub,traces --ws-interface all --fat-db=on --pruning=archive --ws-apis all --ws-origins all --ws-hosts all

```

Last updated3 months ago