

ETH RPC API

In addition to the custom [RPC endpoints documented here](#) , the Blockscout ETH RPC API supports 3 methods in the exact format specified for Ethereum nodes, see the [Ethereum JSON-RPC Specification](#) for more details.

These methods are provided for your convenience. In general, custom RPC methods are recommended.

The following 3 methods are supported:

- `eth_blockNumber`
- `eth_getBalance`
- `eth_getLogs`
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In the following examples we use the Ethereum mainnet with the base instance url `https://eth.blockscout.com` . When sending a request add `/api/eth-rpc` to the end of the base url.

eth_blockNumber

Returns the latest block number in the chain in hexadecimal format. No params are needed. Type: POST

Example

...

Copy // Request `curl -H"content-type: application/json"-X POST --data '{"id":0,"jsonrpc":"2.0","method":"eth_blockNumber","params":[]}' https://eth.blockscout.com/api/eth-rpc` // Response {
"jsonrpc": "2.0", "result": "0xfa0b0e", "id": 0 }

...

eth_getBalance

Returns the balance of a given address in wei. Note the `earliest` parameter does not work as expected because genesis block balances are not currently imported. Parameters are required.

Required Parameters

Type POST Data (string) 20 Byte address to check balance Quantity or Tag (string) Integer value of a block number, or a tag "latest" for the most recent block. Example

...

Copy // Request `curl -H"content-type: application/json"-X POST --data '{"id":0,"jsonrpc":"2.0","method":"eth_getBalance","params":["0xd8dA6BF26964aF9D7eEd9e03E53415D37aA96045","latest"]}' https://eth.blockscout.com/api/eth-rpc` // Response { "jsonrpc": "2.0", "result": "0x1d863bf76508104fb", "id": 0 }

...

eth_getLogs

Returns an array of logs matching a specified filter object. Params are optional based on data you want to receive. From more information, see the [post on eth_getLogs](#) .

Note: Never returns more than 1000 log entries. You can use pagination options to request the next page. Pagination options params: { "logIndex": "3D", "blockNumber": "6423AC" } which include parameters from the last log received from the previous request. These three parameters are required for pagination.

Parameters

Type POST address (string, array) 20Byte contract address or list of addresses to collect logs from. fromBlock (Quantity/Tag) Integer block number, "latest" (default) for the last mined block or "pending", "earliest" for not yet mined transactions. toBlock (Quantity/Tag) Integer block number, "latest" (default) for the last mined block or "pending", "earliest" for not yet mined transactions. topics (string, array) Array of 32 Byte DATA topics. Topics are order-dependent. Each topic can also be an array of DATA with "or" options `pagination_options` `logIndex` and `blockNumber` explained above. Example Query

...

Copy // Request `curl -H"content-type: application/json"-X POST --data '{"id":0,"jsonrpc":"2.0","method":"eth_getLogs","params":[{"address":"0xc78Be425090Dbd437532594D12267C5934Cc6c6f","pagination_options":{"logIndex":"3D","blockNumber":"6423AC"},"fromBlock":"earliest","toBlock":"latest","topics":["0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef"]}]} https://eth.blockscout.com/api/eth-rpc`

...

...

Copy // Response (end)
{ "address": "0xc78be425090dbd437532594d12267c5934cc6c6f", "blockHash": "0x574755e06bf0cec6d59a8cc7db183d4545a90242d03d5bc3806681277356cf4b", "blockNumber": "0x79D4CF", "data": "0x0001", "logIndex": "0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef", "topics": ["0x00", "0x00"] }
{ "address": "0xc78be425090dbd437532594d12267c5934cc6c6f", "blockHash": "0xcb58a082f58bea43dfb6be8add97c915190175b9f0f0abc1e05bfd02573f010", "blockNumber": "0x7BA949", "data": "0x000000", "logIndex": "0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef", "topics": ["0x00", "0x00"] }

...

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