

ETH RPC API

In addition to the custom [RPC endpoints documented here](#), the Blockscout ETH RPC API supports most used 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 and are most suitable as a fallback option in your JSON RPC API providers. For other use cases, REST or custom RPC methods are recommended.

The following methods are supported:

- eth_blockNumber
- eth_getBalance
- eth_getLogs
- eth_gasPrice
- eth_getTransactionByHash
- eth_getTransactionReceipt
- eth_chainId
- eth_maxPriorityFeePerGas
- eth_getTransactionCount
- eth_getCode
- eth_getStorageAt
- eth_estimateGas
- eth_getBlockByNumber
- eth_getBlockByHash
- eth_sendRawTransaction
- eth_call

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 hexidecimal 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 theearliest 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":["0xd86BF26964aF9D7eEd9e03E53415D37aA96045"],"latest"}' https://eth.blockscout.com/api/eth-rpc // Response { "jsonrpc":"2.0","result":"0x1d863bf76508104fb"} /34039260923474019579 "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 this [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 paqing 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":"0xc78Be42509D0dbd3473532594d12267C5934C6c6c6","paging_options":{"logIndex":"3D","blockNumber":"6423AC3","fromBlock":"earliest","toBlock":"latest","topics":["0xddfd152c7b6e2c89b69c2b068cf37cdaa952ba7f163c4a11628f55a4df523b3ef"]}}}' https://eth.blockscout.com/api/eth-rpc
```

...

[illegible]

...

More examples

Refer to the [Ethereum JSON-RPC Specification](#) for more examples and info on the remaining methods.

Last updated 3 months ago