

# eth\_getFilterLogs

Returns an array of all logs matching filter with given filter ID.

## Parameters

A filter object with the following keys and their values:

- fromBlock
  - : [optional, default: latest]
  - ]
  - A hexadecimal block number, or latest
  - for the last mined block. The pending
  - option is not currently supported. See the [default block parameter](#)
- .
- toBlock
  - : [optional, default: latest]
  - ]
  - A hexadecimal block number, or latest
  - for the last mined block. See the [default block parameter](#)
- .
- address
  - : [optional]
  - (20 bytes). Contract address or a list of addresses from which logs should originate.
- topics
  - : [optional]
  - An array of 32 bytes DATA topics. Topics are order-dependent. Each topic can also be an array of DATA with or without options.
- blockHash: [optional]
- With the addition of EIP-234, blockHash
- restricts the logs returned to the single block with the 32-byte hash blockHash
- . Using blockHash
- is equivalent to fromBlock
- = toBlock
- = the block number with hash blockHash
- . If blockHash
- is present in the filter criteria, then neither fromBlock
- nor toBlock
- are allowed.

## Returns

- log object array
- : (array) An array of log objects that match filter. For an array of logs that occurred since the last poll, use [eth\\_getFilterChanges](#)
- . Log objects contain the following keys and their values: \* address
  - - : 20 bytes. Address from which this log originated.
  - - blockHash
  - - : 32 bytes. The hash of the block where this log was in. Null
  - - when it is a pending log.
  - - blockNumber
  - - : The block number where this log was in. Null
  - - when it is a pending log.
  - - data
  - - : DATA. Contains the non-indexed arguments of the log.
  - - logIndex

- : A hexadecimal of the log index position in the block.Null
- when it is a pending log.
- removed
- :true
- when the log was removed, due to a chain reorganization.false
- if it is a valid log.
- topics
- : Array of DATA. An array of 0 to 4 32-bytes DATA of indexed log arguments. In Solidity the firsttopic
- is the hash of the signature of the event (e.g. Deposit(address,bytes32,uint256)), except when you declared the event with the anonymous specifier.
- transactionHash
- : 32 bytes. A hash of the transactions from which this log was created.Null
- when it is a pending log.
- transactionIndex
- : A hexadecimal of the transactions index position from which this log was created.Null
- when it is a pending log.

## Example

ReplaceYOUR-API-KEY with an API key from your[Infura dashboard](#) .

## Request

- cURL
- WSS

```
curl https://mainnet.infura.io/v3/YOUR-API-KEY \-X POST \-H "Content-Type: application/json" \-d
'{"jsonrpc":"2.0","method":"eth_getFilterLogs","params":["0x10ff0bfbbedb01f0dbd4106d14eb719ec38b6eb5b821c"],"id":1}'
wscat -c wss://mainnet.infura.io/ws/v3/YOUR-API-KEY -x '{"jsonrpc":"2.0","method":"eth_getFilterLogs","params":
["0x10ff0bfbbedb01f0dbd4106d14eb719ec38b6eb5b821c"],"id":1}'
```

## Response

- JSON

```
{ "jsonrpc": "2.0", "id": 73, "result": [{ "address": "0xb5a5f22694352c15b00323844ad545abb2b11028", "blockHash":
"0x99e8663c7b6d8bba3c7627a17d774238eae3e793dee30008debb2699666657de", "blockNumber": "0x5d12ab", "data":
"0x0000000000000000000000000000000000000000000000000000000000000000a247d7a2955b61d000", "logIndex": "0x0", "removed": false,
"topics": ["0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef",
"0x0000000000000000000000000000000000000000000000000000000000000000bdc0afe57b8e9468aa95396da2ab2063e595f37e",
"0x00000000000000000000000000000000000000000000000000000000000000007503e090dc2b64a88f034fb45e247cbd82b8741e"], "transactionHash":
"0xa74c2432c9cf7dbb875a385a2411fd8f13ca9ec12216864b1a1ead3c99de99cd", "transactionIndex": "0x3" } ] }
```

Last updated on Apr 19, 2024 [Previous eth\\_getFilterChanges](#) [Next eth\\_newBlockFilter](#)