

eth_getFilterChanges

Polling method for a filter, which returns an array of logs which occurred since last poll. Filter must be created by calling either [eth_newFilter](#) or [eth_newBlockFilter](#) .

Parameters

- filter ID
- : A string denoting the filter ID.

Returns

- log object array
- : (array) An array of log objects, or an empty array if nothing has changed since last poll.
- For filters created with [eth_newBlockFilter](#)
- the return values are block hashes (32 bytes), e.g.["0x3454645634534..."]
- .
- For filters created with [eth_newFilter](#)
- the logs are objects with the following params: * 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

Replace YOUR-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_getFilterChanges","params":["0x10ff0bfbbedb01f0dbd4106d14eb719ec38b6eb5b821c"],"id":1}'
wscat -c wss://mainnet.infura.io/ws/v3/YOUR-API-KEY -x '{"jsonrpc":"2.0","method":"eth_getFilterChanges","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 Filter methods](#) [Next eth_getFilterLogs](#)