

# 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://bsc-mainnet.infura.io/v3/YOUR-API-KEY \-X POST \-H "Content-Type: application/json" \-d '{"jsonrpc": "2.0", "method": "eth_getFilterChanges", "params": ["0x10ff0bfbedb01f0dbd4106d14eb719ec38b6eb5b821c"], "id": 1}' wscat -c wss://bsc-mainnet.infura.io/ws/v3/YOUR-API-KEY -x '{"jsonrpc": "2.0", "method": "eth_getFilterChanges", "params": ["0x10ff0bfbedb01f0dbd4106d14eb719ec38b6eb5b821c"], "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 Nov 5, 2024 [Previous](#) [Filter methods](#) [Next](#) [eth\\_getFilterLogs](#)