eth_newFilter

Creates a filter object based on the given filter options, to notify when the state changes (logs). To check if the state has changed, calleth_getFilterChanges.

Valid for fifteen minutes Filter IDs will be valid for up to fifteen minutes, and can polled by any connection using the sameYOUR-API-KEY.

Parameters

Afilter object with the fillowing keys and their values:

- address
- :[optional]
- A contract address or a list of addresses from which logs should originate.
- fromBlock
- · :[optional, default islatest
- •
- · A hexadecimal block number, or one of the string tagslatest
- · ,earliest
- ,pending
- ,safe
- · , orfinalized
- See thedefault block parameter
- •
- toBlock
- · :[optional, default islatest
-]
- · A hexadecimal block number, or one of the string tagslatest
- ,earliest
- ,pending
- .safe
- · , orfinalized
- See thedefault block parameter
- .
- topics
- :[optional]
- · An array of 32 bytes DATA topics. Topics are order-dependent.

Specifying topic filters

Topics are order-dependent. A transaction with a log with topics[A, B] will be matched by the following topic filters:

- []
- : Anything.
- [A]
- :A
- in the first position, and anything after.
- [null, B]
- : Anything in first position ANDB
- in second position, and anything after.
- [A, B]
- :A
- in the first position ANDB
- in second position, and anything after.
- [[A, B], [A, B]]
- :(A OR B)
- in first position AND(A OR B)
- in second position, and anything after.

Returns

filter ID: A hexadecimal denoting the newly created filter ID.

Example

ReplaceYOUR-API-KEY with an API key from your Infura dashboard .

Request

- cURL
- WSS

 $\label{lem:curl-https://scroll-mainnet.infura.io/v3/ -X POST -H "Content-Type: application/json" \ -d '{"jsonrpc": "2.0", "method": "eth_newFilter", "params": [{"topics": ["0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef"]}], "id": 1}' wscat -c wss://scroll-mainnet.infura.io/ws/v3/ -x '{"jsonrpc": "2.0", "method": "eth_newFilter", "params": [{"topics": ["0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef"]}], "id": 1}'$

Response

JSON

{ "jsonrpc": "2.0", "id": 1, "result": "0x10ff114de54f0bfdbd7855f8a1dd7317e6500495a24f" }

Last updatedonNov 5, 2024 Previous eth newBlockFilter Next eth newPendingTransactionFilter