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# eth\_getLogs - Optimism

post https://{network}.g.alchemy.com/v2/{apiKey} Returns an array of all logs matching a given filter object.

#### Log Limits

You can make eth getLogs requests on any block range with a cap of 10K logs in the response OR a 2K block range with no cap on logs in the response and 150MB limit on the response size

If you need to pull logs frequently, we recommendusing WebSockets to push new logs to you when they are available.

#### **Understanding Logs**

Want to understand how logs and events work on the EVM? Check out this guideUnderstanding Logs: Deep Dive into eth getLogs

Path Params apiKey string required .custom-style { color: #048FF4; } For higher throughput, create your own API key Body Params id integer isonrpc string method string params array of objects params object blockHash string 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. address array of strings Contract address or a list of addresses from which logs should originate. address string ADD string fromBlock string String - Either the hex value of ablock number ORblock tags:

- 1. block number
- 2. (in hex) OR
- 3. block tag
- 4. (one of the following):
- 5. pending A sample next block built by the client on top of latest and containing the set of transactions usually taken from local mempool. Intuitively, you can think of these as blocks that have not been mined yet.
- 6. latest The most recent block in the canonical chain observed by the client, this block may be re-orged out of the canonical chain even under healthy/normal conditions.
- 7. safe The most recent crypto-economically secure block, cannot be re-orged outside of manual intervention driven by community coordination. Intuitively, this block is "unlikely" to be re-orged.
- 8. finalized The most recent crypto-economically secure block, that has been accepted by >2/3 of validators. Cannot be re-orged outside of manual intervention driven by community coordination. Intuitively, this block is very unlikely to be re-orged.
- 9. earliest The lowest numbered block the client has available. Intuitively, you can think of this as the first block created.

toBlock string String - Either the hex value of ablock number ORblock tags :

- 10. block number
- 11. (in hex) OR
- 12. block tag
- 13. (one of the following):
- 14. pending A sample next block built by the client on top of latest and containing the set of transactions usually taken from local mempool. Intuitively, you can think of these as blocks that have not been mined yet.
- 15. latest The most recent block in the canonical chain observed by the client, this block may be re-orged out of the canonical chain even under healthy/normal conditions.
- 16. safe The most recent crypto-economically secure block, cannot be re-orged outside of manual intervention driven by community coordination. Intuitively, this block is "unlikely" to be re-orged.
- 17. finalized The most recent crypto-economically secure block, that has been accepted by >2/3 of validators. Cannot be re-orged outside of manual intervention driven by community coordination. Intuitively, this block is very unlikely to be re-orged.
- 18. earliest The lowest numbered block the client has available. Intuitively, you can think of this as the first block created. topics array of strings Array of 32 Bytes DATA topics. Topics are order-dependent. Each topic can also be an array of DATA with "or" options. topics string string ADD string

Response

## 200

Returns array of log objects, or an empty array if nothing has changed since last poll.

Response body object id integer jsonrpc string result array of objects Array of log objects, or an empty array if nothing has changed since last poll. result object blockHash string 32 Bytes - hash of the block where this log was in. null when its pending. null when its pending log blockNumber string The block number where this log was in. null when its pending. null when its pending log. transactionIndex string Integer of the transactions index position log was created from. null when its pending log. address string 20 Bytes - address from which this log originated. logIndex string Integer of the log index position in the block. null when its pending log. data string Contains one or more 32 Bytes non-indexed arguments of the log. removed boolean true when the log was removed, due to a chain reorganization. false if its a valid log. topics array of strings Array of zero to four 32 Bytes DATA of indexed log arguments. In solidity: The first topic is the hash of the signature of the event (e.g. Deposit(address,bytes32,uint256)), except you declare the event with the anonymous specifier. topics transactionHash string Hash of the transactions this log was created from. null when its pending log.

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