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alchemy_getTransactionReceipts

post https://{network}.g.alchemy.com/v2/{apiKey} An enhanced API that gets all transaction receipts for a given block by number or block hash. Supported on all networks for Ethereum, Polygon, and Arbitrum.

Chains Supported

method Ethereum Polygon Arbitrum Optimism Base Astar Solana alchemy getTransactionReceipts All Networks All Networks All Networks All Networks Unsupported Unsupported

Alternative Query

The alternative to using alchemy_getTransactionReceipts would be to use the Ethereum JSON-RPC API to retrieve the list of transaction hashes for the block usingeth getBlockByNumber oreth getBlockByHash methods and then useeth getTransactionReceipt to retrieve the receipt for each transaction. This approach requires making multiple API calls, one for each transaction receipt. This is way slower than alchemy getTransactionReceipts due to the large number of API

Overall, alchemy_getTransactionReceipts is performant and simple-to-use at the same time.

Use Cases

alchemy getTransactionReceipts can be used in a variety of use cases where developers need to retrieve transaction receipts for a specific block. Some examples include:

- Extracting data for analysis
- : Developers may need to extract data from transaction receipts for analysis purposes, such as measuring transaction volumes, gas usage, or average block times.
- · Building a blockchain explorer
- : Developers building blockchain explorers may need to retrieve all transaction receipts for a given block in order to display details about the transactions in a user-friendly way.
- Building decentralized applications
- : Decentralized applications (dApps) may need to retrieve transaction receipts to confirm the success or failure of a transaction in order to execute subsequent transactions or operations.

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 The api only takes in one parameter - an object with at least a blockNumber or blockHash. If both are provided, an error is returned asking you to choose either blockNumber or blockHash. params object blockNumber string The block number you want to get transaction receipts for, in hex blockHash string The block hash you want to get transaction receipts for

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A list of transaction receipts for each transaction in this block.

Response body object A transaction receipt object, or null when no receipt was found blockHash string 32 Bytes - The hash of the block where the given transaction was included. blockNumber string The number of the block where the given transaction was included. transactionIndex string The index of the transaction within the block. transactionHash string 32 Bytes - hash of the transaction from string 20 Bytes - address of the sender to string 20 Bytes - address of the receiver. null when its a contract creation transaction cumulativeGasUsed string The total amount of gas used when this transaction was executed in the block, gasUsed string The amount of gas used by this specific transaction alone contractAddress string 20 Bytes - The contract address created, if the transaction was a contract creation, otherwise null logs array of objects Array of log objects, which this transaction generated logs 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. logsBloom string 256 Bytes - Bloom filter for light clients to quickly retrieve related logs root string 32 bytes of post-transaction stateroot. (pre Byzantium hard fork at block 4,370,000) status integer Either 1 (success) or 0 (failure). (post Byzantium hard fork at block 4,370,000)

1 effectiveGasPrice string type string

Updated 4 months ago

alchemy_getAssetTransfers Token API Quickstart Did this page help you?Yes No