

# eth\_getTransactionByBlockNumberAndIndex

Returns information about a transaction given block number and transaction index position.

For Growth and Custom service plans This JSON-RPC method allows a request to be forwarded to a partner service provider if Infura should experience a service issue or outage. See [Failover protection](#) and [Enable API request forwarding](#) for complete details.

If you would like failover protection but don't qualify under your current plan, then either self-upgrade to the Growth plan or contact a sales representative to upgrade to a Custom plan.

## Parameters

- block parameter
  - : [Required
  - ] A hexadecimal block number, or one of the string tagslatest
  - ,earliest
  - ,pending
  - ,safe
  - , orfinalized
  - . See the [default block parameter](#)
  - .
- transaction index position
  - : [Required
  - ] A hexadecimal of the integer representing the position in the block.

## Returns

A transaction object, or null when no transaction was found. The transaction object will consist of the following keys and their values:

- accessList
  - : [optional
  - ] A list of addresses and storage keys accessed by the transaction. See [access list transactions](#)
  - .
- blockHash
  - : 32 bytes. A hash of the block including this transaction.null
  - when it's pending.
- blockNumber
  - : The number of the block including this transaction.null
  - when it's pending.
- chainID
  - : [optional
  - ] chain ID specifying the network. Returned only for [EIP-1559 transactions](#)
  - .
- from
  - : 20 bytes. The address of the sender.
- gas
  - : Gas provided by the sender.
- gasPrice
  - : Gas price provided by the sender in Wei.
- hash
  - : 32 bytes. The hash of the transaction.
- input
  - : The data sent along with the transaction.
- maxPriorityFeePerGas
  - : [optional
  - ] Maximum fee, in Wei, the sender is willing to pay per gas above the base fee. See [EIP-1559 transactions](#)
  - .
- maxFeePerGas
  - : [optional
  - ] Maximum total fee (base fee + priority fee), in Wei, the sender is willing to pay per gas. See [EIP-1559 transactions](#)
  - .
- nonce
  - : The number of transactions made by the sender prior to this one.
- r
  - : 32 bytes. The ECDSA signaturer
  - .
- s
  - : 32 bytes. The ECDSA signatures
  - .
- to
  - : 20 bytes. The address of the receiver.null
  - when it's a contract creation transaction.
- transactionIndex
  - : The transaction's index position in the block, in hexadecimal.null
  - when it's pending.
- type
  - : The [transaction type](#)
  - .
- v
  - : The ECDSA recovery ID.
- value
  - : The value transferred in Wei.

## Example

Replace YOUR-API-KEY with an API key from your [Infura dashboard](#) .

## Request

- cURL
- WSS

```
curl https://polygon-mainnet.infura.io/v3/YOUR-API-KEY \-X POST \-H "Content-Type: application/json" \-d
```

```
{ "jsonrpc": "2.0", "method": "eth_getTransactionByBlockNumberAndIndex", "params": [ "0x5BAD55", "0x0", "id:1" ] } wscat -c wss://polygon-mainnet.infura.io/ws/v3/YOUR-API-KEY -x '{ "jsonrpc": "2.0", "method": "eth_getTransactionByBlockNumberAndIndex", "params": [ "0x5BAD55", "0x0", "id:1" ] }
```

## Response

- JSON

[illegible]

Last updated on Apr 19, 2024 [Previous eth\\_getTransactionByBlockHashAndIndex](#) [Next eth\\_getTransactionByHash](#)