trace_call

Executes the given call and returns a number of possible traces for it. Use this API to retrieve detailed information about the transaction execution, including state changes and logs generated during the process.

Parameters

- transaction call object
- [Required]
- with the following keys and their values:* from
  - : 20 bytes. The address the transaction is sent from.
  - to
  - : 20 bytes. The address the transaction is directed to.
  - gas
  - :[optional]
  - The hexadecimal value of the gas provided for the transaction execution.
  - gasPrice
  - :[optional]
  - The hexadecimal value of the gasPrice used for each paid gas.
  - 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](#)
  - .
  - value
  - :[optional]
  - The hexadecimal equivalent of the value sent with this transaction.
  - data
  - :[optional]
  - The hash of the method signature and encoded parameters. See the [Ethereum contract ABI specification](#)
  - .
- block parameter
- :[Required]
- The hexadecimal block number, or the string latest
- , earliest
- , or pending
- . See the [default block parameter](#)
- .
- options
- : A list of tracing options. Tracing options are [trace](#)
- and [stateDiff](#)
- .

Returns

- result
- : A trace object that includes the [trace](#)
- and [stateDiff](#)
- .

Example

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

Request

- cURL
- WSS

curl https://mainnet.infura.io/v3/YOUR-API-KEY \ -X POST \ -H "Content-Type: application/json" \ -d '{"jsonrpc":"2.0","method":"trace_call","params": [{"from":"0xfe3b557e8fb62b89f4916b721be55ceb828dbd73","to":"0x0010000000000000000000000000000000000000","gas":"0xfffff2","gasPrice":"0xef","value":"0x0","data":"0x0000000000000000000000000 ["trace"],"latest"],"id":1}' wscat -c wss://mainnet.infura.io/ws/v3/YOUR-API-KEY -x '{"jsonrpc":"2.0","method":"trace_call","params": [{"from":"0xfe3b557e8fb62b89f4916b721be55ceb828dbd73","to":0x0010000000000000000000000000000000000000","gas":"0xfffff2","gasPrice":"0xef","value":"0x0","data":"0x0000000000000000000000000 ["trace"],"latest"],"id":1}'

Response

- JSON

{ "jsonrpc": "2.0", "result": { "output" : "0x", "stateDiff" : null, "trace" : [{ "action" : { "callType" : "call", "from" : "0xfe3b557e8fb62b89f4916b721be55ceb828dbd73", "gas" : "0xffabba", "input" : "0x0000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000000000000000000000000000000000000001000000000000000000000000000000000000000000000 "to" : "0x0010000000000000000000000000000000000000", "value" : "0x0" }, "result" : { "gasUsed" : "0x9c58", "output" : "0x" }, "subtraces" : 0, "traceAddress" : [ ], "type" : "call" }], "vmTrace" : null }, "id" : 2 }