starknet_simulateTransactions

Simulates the execution of the specified transactions at the specified block.

Parameters

- transactions
- : (array) [Required
-] A sequence of Stark Net transactions
- to simulate.
- If multiple transactions are provided, each transaction is simulated on the state resulting from
- applying the previous transactions.
- : [Required
-] The block parameter object containing one of the following:* block_hash
 - · : (string) Block hash.
 - block number
- · : (integer) Decimal block number
 - · One of the string tagslatest
- orpending

- simulation_flags
- : (array) [Required
-] A set of flags used for simulation.
 Available options are SKIP_VALIDATE
- andSKIP_FEE_CHARGE

Returns

A sequence of transaction results, corresponding to the sequence of requested transactions. Each transaction result object contains:

- transaction_trace : An execution trace of the transaction.
- fee estimation
- : An estimate of the fee required for the network to process the transaction.

ReplaceYOUR-API-KEY with an API key from yourInfura dashboard .

Request

 $curl \ https://starknet-mainnet.infura.io/v3/YOUR-API-KEY \ -X \ POST \ -H \ "Content-Type: application/json" \ -d \ '{ "jsonrpc": "2.0", "method": "starknet_simulateTransactions", "params": { "transactions": [{ "type": "INVOKE", "max_fee": "0xb3a2f1ab6d632", "version": "0x1", "signature": ["0x54c2201c7b9021777389e208e28eafc67e4ba1f1aa7016a1123b61c6ff79c29", "0x58c2d97614e5abfd9668b314f344c945d16ea154cb32a7b08b4445204f1f1d3"], "sender_address": "0x0569b13e8164bc8000c0bbcf4887856516643af123c5bc3b01e229e92f9cfd10", "calldata": ["0x3", "0x49d36570d4e46f48e99674bd3fcc84644ddd6b96f7c741b1562b82f9e004dc7", "0x219209e083275171774dab1df80982e9df2096516f06319c5c6d71ae0a8480c", "0x3", "0xfff107e2403123c7df78d "nonce": "0x51" }}, "block_id": { "block_number": 385940 }, "simulation_flags": ["SKIP_VALIDATE", "SKIP_FEE_CHARGE"] }, "id": 1 }'$

Response

JSON

```
{"jsonrpc": "2.0", "id": 1, "result": [{ "fee_estimation": { "gas_consumed": "0x9ad6", "gas_price": "0x5569d8d85", "overall_fee": "0x33a912ed64f2e" }, "transaction_trace": { "execute_invocation": { "call_type": "CALL", "calldata": [ "0x3", "0x49d36570d4e46f48e99674bd3fcc84644dd6b96f7c741b1562b82f9e004dc7", "0x219209e083275171774dab1df80982e9df2096516f06319c5c6d71ae0a8480c", ... ], "caller_address": "0x0", "calls": [ { "call_type": "CALL", "calldata": [ "0xff1107e2403123c7df78d91728a7ee5cfd57aec0fa2d2bdc5891c286bbfff", "0x984e103a8acd6", "0x0" ], "caller_address": "0x569b13e8164bc8000c0bbcf4887856516643af123c5bc3b01e229e92f9cfd10", "calls": [ { "call_type": "DELEGATE", "calldata": [ "0xfff1107e2403123c7df78d91728a7ee5cfd557aec0fa2d2bdc5891c286bbfff", "0x984e103a8acd6", "0x0" ], "caller_address": "0x569b13e8164bc8000c0bbcf4887856516643af123c5bc3b01e229e92f9cfd10", "calls": [], "class_hash": "0x2760f25d5a4fb2bdde5f561fd0b44a3dee78c28903577d37d669939d97036a0", "contract_oddcors": ""\u00edf46f2f26f2f46f4df46f848ep6727f4bdf7", "calls": [], "class_hash": "0x2760f25d5a4fb2bdde5f561fd0b44a3dee78c28903577d37d669939d97036a0", "contract_oddcors": "\u00edf46f2f26f3f2f26f26f4df2eff26f74bdf7", "calls": [], "calls = "call_type" contract_collection collection co
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```

Last updatedonMay 9, 2024 Previous starknet_getTransactionStatus Next starknet_specVersion