eth_getBlockRange

Returns the block information for blocks within a specified range.

Parameters

- start block hash
- : (string)[required]
- hexadecimal block number, or one of the string tagslatest
- ,earliest
- ,pending
- ,safe
- , orfinalized
- .
- See thedefault block parameter
- .
- end block hash
- : (string)[required]
- hexadecimal block number, or one of the string tagslatest
- ,earliest
- ,pending
- ,safe
- , orfinalized
- .
- See thedefault block parameter
- .
- transaction details flag
- : (boolean)[required]
- true
- returns full transaction objects,false
- returns only the hashes of the transactions.

Returns

Array of block objects:

- difficulty
- : A hexadecimal of the difficulty for this block.
- extraData
- : The "extra data" field of this block.
- gasLimit
- : Maximum gas allowed in this block.
- gasUsed
- : Total used gas by all transactions in this block.
- hash
- : 32 bytes. The hash of the block. Null when the returned block is the pending block.
- logsBloom
- : 256 bytes. The bloom filter for the logs of the block. Null when the returned block is the pending block.
- miner
- : 20 bytes. The address of the beneficiary to whom the mining rewards were given.
- nonce
- : 8 bytes. The hash of the generated proof-of-work. Null when the returned block is the pending block.
- number
- : The block number. Null when the returned block is the pending block.
- parentHash
- : 32 bytes. The hash of the parent block.
- receiptsRoot
- : 32 bytes. The root of the receipts trie of the block.
- sha3Uncles
- : 32 bytes. The SHA3 of the uncles data in the block.
- size
- : A hexadecimal of the size of this block in bytes.
- stateRoot
- : 32 bytes. The root of the final state trie of the block.
- timestamp
- : Unix timestamp for when the block was collated.
- totalDifficulty
- : A hexadecimal of the total difficulty of the chain until this block.
- transactions
- : [Array] An array of transaction objects, or 32 bytes transaction hashes depending on the last given parameter.
- transactionsRoot
- : 32 bytes. The root of the transaction trie of the block.
- uncles
- : [Array] An Array of uncle hashes.

Example

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

Request

- cURL
- WSS

curl https://mantle-mainnet.infura.io/v3/ \ -X POST \ -H "Content-Type: application/json" \ -d '{"jsonrpc":"2.0","method":"eth_getBlockRange","params":["0x1", "0x2", false],"id":1}' wscat -c wss://mantle-mainnet.infura.io/ws/v3/YOUR-API-KEY -x '{"jsonrpc":"2.0","method":"eth_getBlockRange","params":["0x1", "0x2", false],"id":1}'

Result

{ "jsonrpc":"2.0", "id":1, "result":[{ "difficulty":"0x2",
"extraData":"0xd97735082a846765746889676f312e31352e3133856c696e75780000000000009c3827892825f0825a7e329b6913b84c9e4f89168350aff0939e0e6609629f2e7f07f2aeb62acbf4b16a739cal
"gasLimit":"0xe4e1c0", "gasUsed":"0x3183d", "hash":"0xbee7192e575af30420cae0c7776304ac196077ee72b048970549e4f08e875453",
"logsBloom":"0x00000000000000000000000000000000000000000000000080000000000000000000000000000000000000000000000000000000000400000000000010000000000000000020000
"miner":"0x0000000000000000000000000000000000000000", "mixHash":"0x0000000000000000000000000000000000000000000000000000000000000000", "nonce":"0x0000000000000000",
"number":"0x1", "parentHash":"0x7ca38a1916c42007829c55e69d3e9a73265554b586a499015373241b8a3fa48b",
"receiptsRoot":"0xf4c97b1186b690ad3318f907c0cdaf46f4598f27f711a5609064b2690a767287", "sha3Uncles":"0x1dcc4de8dec75d7aab85b567b6ccd41ad312451b948a7413f0a142fd40d49347",
"size":"0x30c", "stateRoot":"0xd3ac40854cd2ac17d8effeae6065cea990b04be714f7061544973feeb2f1c95f", "timestamp":"0x618d4769", "totalDifficulty":"0x3", "transactions":
["0x5e77a04531c7c107af1882d76cbff9486d0a9aa53701c30888509d4f5f2b003a"], "transactionsRoot":"0x19f5efd0d94386e72fcb3f296f1cb2936d017c37487982f76f09c591129f561f", "uncles":[] }, {
"difficulty":"0x2",
"extraData":"0xd98301090a848932606889676f312e61742e3133856c696e75780000000000000064a82cb66c7810b9619e7f14ab65c769a828b1616974987c530684eb3870b65e5b2400c1b61c6d340beef8c
"gasLimit":"0xe4e1c0", "gasUsed":"0x1c60d", "hash":"0x45fd6ce41bb8ebb2bccdaa92dd1619e367404cb07722039901a7eba63dea1d13",
"logsBloom":"0x00080000000020000000000000000000000000000800000000000100008000000000000000000000000000000000000000000400000000000010000000000000000000
"miner":"0x0000000000000000000000000000000000000000", "mixHash":"0x0000000000000000000000000000000000000000000000000000000000000000", "nonce":"0x0000000000000000",
"number":"0x2", "parentHash":"0xbee7192e575af30420cae0c7776304ac196077ee72b048970549e4f08e875453",
"receiptsRoot":"0x2057c8fb79c0f294062c1436aa56741134dc46d228a4f874929f8b791a7007a4", "sha3Uncles":"0x1dcc4de8dec75d7aab85b567b6ccd41ad312451b948a7413f0a142fd40d49347",
"size":"0x30c", "stateRoot":"0x87026f3a614318ae24bcef6bc8f7564479afbbbe2b1fb189bc133a5de5a2b0f8", "timestamp":"0x618d8837", "totalDifficulty":"0x5", "transactions":
["0xaf6ed8a6864d44989adc47c84f6fe0aeb1819817505c42cde6cbbcd5e14dd317"], "transactionsRoot":"0xa39c4d0d2397f8fcb1683ba833d4ab935cd2f4c5ca6f56a7d9a45b9904ea1c69", "uncles":[] }] }