

# eth\_getStorageAt

Returns the value from a storage position at a given address.

## Parameters

- address
  - : [Required]
  - ] A string representing the address (20 bytes) of the storage.
- storage position
  - : [Required]
  - ] A hexadecimal code of the position in the storage.
- block parameter
  - : [Required]
  - ] A hexadecimal block number, or one of the string tagslatest, earliest, pending, safe, or finalized
  - . See the [default block parameter](#)
  - .

## Returns

storage value : A hexadecimal equivalent of the integer indicating the value of the storage position at the provided address.

## Example

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

## Request

- cURL
- WSS

```
curl https://optimism-mainnet.infura.io/v3/YOUR-API-KEY \-X POST \-H "Content-Type: application/json" \-d '{"jsonrpc": "2.0", "method": "eth_getStorageAt", "params": ["0x295a70b2de5e3953354a6a8344e616ed314d7251", "0x6661e9d6d8b923d5bbaab1b96e1dd51ff6ea2a93520fdc9eb75d059238b8c5e9", "0x65a8db"], "id": 1}' wscat -c wss://optimism-mainnet.infura.io/ws/v3/YOUR-API-KEY -x '{"jsonrpc": "2.0", "method": "eth_getStorageAt", "params": ["0x295a70b2de5e3953354a6a8344e616ed314d7251", "0x6661e9d6d8b923d5bbaab1b96e1dd51ff6ea2a93520fdc9eb75d059238b8c5e9", "0x65a8db"], "id": 1}'
```

## Response

- JSON

```
{ "jsonrpc": "2.0", "id": 1, "result": "0x0000000000000000000000000000000000000000000000000000000000000000" }
```

## Additional notes

Calculating the correct position depends on the storage to retrieve. Consider the following contract deployed at 0x295a70b2de5e3953354a6a8344e616ed314d7251 by address 0x391694e7e0b0cce554cb130d723a9d27458f9298 ,

contract

Storage

```
{ uint pos0 ; mapping ( address
```

```
=>
```

```
uint ) pos1 ;
```

```
function
```

```
Storage ( )
```

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