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eth_getProof - Ethereum

post https://{network}.g.alchemy.com/v2/{apiKey} Returns the account and storage values of the specified account including the Merkle-proof. This call can be used to verify that the data you are pulling from is not tampered with.

All CSS

/ *dont_have_api_sec_start* / .api_key_instruct_ban{ background: #F5FCFF; border: 1px solid rgba(207, 217, 240, 0.2); border-radius: 12px; -webkit-border-radius: 12px; display: flex; flex-wrap: wrap; padding: 33px; } .markdown-body h3 { color: #00000 !important; } .api_key_instruct_ban_lft h3{ font-size: 24px; line-height: 1.3; letter-spacing: -0.03em; font-weight: 700; font-family: 'Inter', sans-serif; margin-bottom: 7px; margin-top: 0px; color: #00000 !important; } .api_key_instruct_ban_lft h3:last-child{ margin-bottom: 0; } .api_key_instruct_ban_lft p{ font-size: 14px; line-height: 1.3; color: #000000; font-family: 'Inter', sans-serif; font-weight: 400; } .gt_startd_vbtn{ display: inline-block; color: #FFFFFF !important; background: linear-gradient(126.33deg, #36BEFF 5.38%, #733FF1 108.32%); border-radius: 6px; font-size: 16px; line-height: 1.3; font-weight: 600; font-family: 'Inter', sans-serif; padding: 9px 16px; } .gt_startd_vbtn:hover{ background: #000; color: #fff; } .api_key_instruct_ban_lft{ flex-basis: 60%; max-width: 60%; padding-right: 15px; } .api_key_instruct_ban_rtt{ flex-basis: 40%; max-width: 40%; padding-left: 15px; align-self: center; } / *dont_have_api_sec_end* /

```
/* ========== responsive css ========== */

@media(min-width:1025px) {}

@media(max-width:1199px) {
    .api_main {
        max-width: 100%;
    }
    .api_main_cont ul li a {
        width: 100%;
    }
    .left_icon .evm_part {
        width: 73%;
        margin: 22px auto auto auto;
    }
    .api_main_cont ul li a {
        padding: 10px 18px;
        border-radius: 12px;
    }
    .api_main_cont ul li a:hover::before {
        border-radius: 12px;
    }
    .learn_box,
    .lear_outer {
        height: 100%;
    }
    .navbar-nav>li>a {
        font-size: 15px;
        padding: 8px 10px;
    }
    .top_header_links ul li a{
        font-size: 15px;
    }
    .footer_links_box ul li a{
```

```
        font-size: 13px;
    }
    /* dont_have_api_sec_start */
    .api_key_instruct_ban{
        display: block;
        text-align: center;
        background: linear-gradient(180deg, #EBF9FF 0%, #EEF3FE 100%);
    }
    .api_key_instruct_ban_lft,.api_key_instruct_ban_rtt{
        max-width: 100%;
        padding: 0;
        flex-basis: 100%;
    }
    .api_key_instruct_ban_lft{
        margin-bottom: 30px;
    }
    /* dont_have_api_sec_end */
}

@media (max-width: 768px) {
    /* dont_have_api_sec_start */

    .api_key_instruct_ban_lft h3{
        font-size: 30px;
    }
    .api_key_instruct_ban_lft p{
        font-size: 16px;
    }
    .wrapper_body_cmn_out{
        max-width: 100%;
    }
    .api_key_instruct_ban_lft h3 {
        font-size: 40px;
        margin-bottom: 16px;
    }

    /* dont_have_api_sec_end */
}

@media (max-width: 350px){
    /* dont_have_api_sec_start  */
    .api_key_instruct_ban_lft h3{
        font-size: 36px;
    }
    .api_key_instruct_ban{
        padding: 30px;
    }
    /* dont_have_api_sec_end */
}
```

whole_Section_wrapperdont_have_api_sec_start### Don’t have an API key?

Start using this API in your app today.Get started for free dont_have_api_sec_end

Parameters

1. DATA
2. , 20 Bytes - address of the account.
3. ARRAY
4. , 32 Bytes - an array of storage-keys that should be proofed and included. Seeeth_getStorageAt
5. QUANTITY|TAG
6.
    - integer block number, or the string
7. "latest"
8. or
9. "earliest"
10. , see thedefault block parameter

Returns

Object - A account object:

- balance
- :
- QUANTITY
-
    - the balance of the account. Seeeth_getBalance
- codeHash
- :
- DATA
- , 32 Bytes - hash of the code of the account. For a simple Account without code it will return
- "0xc5d2460186f7233c927e7db2dcc703c0e500b653ca82273b7bfad8045d85a470"
- nonce
- :
- QUANTITY
- , - nonce of the account. Seeeth_getTransactionCount
- storageHash

- :
- DATA
- , 32 Bytes - SHA3 of the StorageRoot. All storage will deliver a MerkleProof starting with this
- rootHash
- .
- accountProof
- :
- ARRAY
-
    - Array of rlp-serialized MerkleTree-Nodes, starting with the stateRoot-Node, following the path of the SHA3 (address) as key.
- storageProof
- :
- ARRAY
-
    - Array of storage-entries as requested. Each entry is an object with these properties:* key
-
    - :
-
    - QUANTITY
-
    -
        - the requested storage key
-
    - value
-
    - :
-
    - QUANTITY
-
    -
        - the storage value
-
    - proof
-
    - :
-
    - ARRAY
-
    -
        - Array of rlp-serialized MerkleTree-Nodes, starting with the storageHash-Node, following the path of the SHA3 (key) as path.

Example

Request

alchemyweb3.js ethers.js web3.py cURL Postman // Installation instructions: https://github.com/alchemyplatform/alchemy-web3 async function main () {// Import the AlchemyWeb3 library. Filepath to functions: // /@alch/alchemy-web3/dist/alchemyWeb3.js const {createAlchemyWeb3 }= require ("@alch/alchemy-web3");// Replace with your Alchemy API key: const apiKey = "demo" ;// Initialize an alchemy-web3 instance: const web3 = createAlchemyWeb3 (https://eth-mainnet.g.alchemy.com/v2{ apiKey });// Query the blockchain (replace example parameters) const account = await web3 .eth .getProof ({address :'0x7e5814a' ,keys : ["0x56e81f,0x283s34"],tag :'latest' , });// Print the output to console console .log (account); }main (); // Installation instructions: https://docs.ethers.io/v5/getting-started/#installing async function main () {const {ethers }= require ("ethers");// Replace with your Alchemy API key: const apiKey = "demo" ;// Initialize an ethers instance const provider = new ethers .providers .AlchemyProvider ("homestead" ,apiKey);// Query the blockchain (replace example parameters) const account = await provider .getProof ({address :'0x7e5814a' ,keys : ["0x56e81f,0x283s34"],tag :'latest' , });// Print the output to console console .log (account); }main ()

Installation Instructions: https://web3py.readthedocs.io/en/latest/quickstart.html#installation

from web3 import Web3 ,HTTPProvider

Replace with your Alchemy API key:

apiKey

"demo"

Initialize a Web3.py instance

web3

Web3 (Web3 .HTTPProvider ('https://eth-mainnet.g.alchemy.com/v2/' + apiKey))# Query the blockchain (replace example parameters) account = web3 .eth .get_proof ({account :"0x7e581" ,#can be a checksum address or ENS positions : ['0']block_identifier :'3391' })# Print the output to

console print (account) curl https://eth-mainnet.g.alchemy.com/v2/your-api-key -X POST -H "Content-Type: application/json" -d '{"jsonrpc":"2.0","method":"eth_getProof","params":["0x7F0d15C7FAae65896648C8273B6d7E43f58Fa842", ["0x56e81f171bcc55a6ff8345e692c0f86e5b48e01b996cadc001622fb5e363b421"],"latest"],"id":1}' URL: https://eth-mainnet.g.alchemy.com/v2/your-api-key RequestType: POST Body:

{ "jsonrpc":"2.0", "method":"eth_getProof", "params":["0x7F0d15C7FAae65896648C8273B6d7E43f58Fa842", ["0x56e81f171bcc55a6ff8345e692c0f86e5b48e01b996cadc001622fb5e363b421"],"latest"], "id":1 }

Result

JavaScript {"id" :1 ,"jsonrpc" :"2.0" ,"result" : {"accountProof" : ["0xf90211a...0701bc80" ,"0xf90211a...0d832380" ,"0xf90211a...5fb20c80" ,"0xf90211a...0675b80" ,"0xf90151a0...ca08080"],"balance" :"0x0" ,"codeHash" :"0xc5d2460186f7233c927e7db2dcc703c0e500b653ca82273b7bfad8045d85a470" ,"nonce" :"0x0" ,"storageHash" :"0x56e81f171bcc55a6ff8345e692c0f86e5b48e01b996cadc001622fb5e363b421" ,"storageProof" : [{"key" :"0x56e81f171bcc55a6ff8345e692c0f86e5b48e01b996cadc001622fb5e363b421" ,"proof" : ["0xf90211a...0701bc80" ,"0xf90211a...0d832380"],"value" :"0x1" }] } }

NOTE

You can test out this method live from your browser using oucomposer tool .

Path Params apiKey string required .custom-style { color: #048FF4; } For higher throughput,create your own API key Body Params id integer jsonrpc string method string params array 1. String - 20 Bytes - Address of the account 2. Array - 32 Bytes - array of storage-keys which should be proofed and included 3. String - Either the hex value of ablock number 4. OR One of the followingblock tags 5. :

- pending
- A sample next block built by the client on top of latest and containing the set of transactions usually taken from local mempool. Intuitively, you can think of these as blocks that have not been mined yet.
- latest
- The most recent block in the canonical chain observed by the client, this block may be re-orged out of the canonical chain even under healthy/normal conditions.
- safe
- The most recent crypto-economically secure block, cannot be re-orged outside of manual intervention driven by community coordination. Intuitively, this block is “unlikely” to be re-orged.
- finalized
- The most recent crypto-economically secure block, that has been accepted by >2/3 of validators. Cannot be re-orged outside of manual intervention driven by community coordination. Intuitively, this block is very unlikely to be re-orged.
- earliest
- The lowest numbered block the client has available. Intuitively, you can think of this as the first block created. params Address Array of Storage Keys Block Number, Tag, or Hash

Response

200

Returns the account and storage values of the specified account.

Response body object id integer jsonrpc string result string An account object

Updated 5 months ago

eth_getCode - Ethereum eth_getStorageAt - Ethereum Did this page help you?Yes No