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call - SDK

Returns the result of executing the transaction, using call . A call does not require any ether, but cannot change any state. This is useful for calling getters on Contracts.

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 limportant; } .api key instruct ban Ift 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 limportant; } .api key instruct ban Ift 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: lineargradient(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 method in your app today. Get started for free dont_have_api_sec_end

Description

Returns the result of executing the transaction, using call . A call does not require any ether, but cannot change any state. This is useful for calling getters on Contracts.

Starting from Geth 1.9.13, eth_call will check the balance of the sender (to make sure that the sender has enough gas to complete the request) before executing the call when one of the following conditions is true:

- 1. the
- 2. gas price
- 3. parameter is populated, or
- 4. the contract function being called (i.e. in data modifies blockchain state)

In these two cases, even though the eth_call requests don't consume any gas, the from address must have enough gas to execute the call as if it were a write transaction because eth call is being used to simulate the transaction.

eth_call has a timeout restriction at the node level. Batching multiple eth_call together on-chain using pre-deployed smart contracts might result in unexpected timeouts that cause none of your calls to complete. Instead, consider serializing these calls, or using smaller batches if they fail with a node error code.

Parameters

Name Type Description transaction string The transaction to execute blockTag string / number The optional block number or hash to get the call for.

transaction

object parameters

Parameter Type Description to string DATA, 20 Bytes - The address the transaction is directed to. from string DATA, 20 Bytes - (optional) The address the transaction is sent from. gasPrice? number / string QUANTITY - (optional) Integer of the gasPrice used for each paid gas. data? string DATA - (optional) Hash of the method signature and encoded parameters. For details see Ethereum Contract ABI value? number QUANTITY - (optional) Integer of the value sent with this transaction nonce? string A nonce is a value that represents the number of transactions sent by the sender's address, ensuring the transactions are processed in order and preventing replay attacks. gasLimit? string The maximum gas allowed. chainId? number optional the Id of the transaction chain. type? number Optional This is the type of transaction. accessList? array of strings The accessList is an optional transaction parameter that specifies addresses and storage keys a transaction interacts with, enabling gas cost optimization and compatibility with future Ethereum upgrades. maxPriorityFee? number This describes the maximum priority fee for this transaction. maxFeePerGas? number This is the maximum fee per gas for this transaction. ccipReadEnabled? boolean This specifies if the CCIP read is enabled.

Response

Property Type Description Promise string The method returns the output data as a hexadecimal-encoded string without modifying the blockchain state.

blocktag

parameters

- pending
 - A sample next block built by the client on top of the latest and containing the set of transactions usually taken from the 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. Only available on Ethereum Goerli
- 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. Only available on Ethereum Goerli
- earliest
 - The lowest numbered block the client has available. Intuitively, you can think of this as the first block created.

Example Request and Response

Prerequisite: You will need to install the Alchemy SDK before making requests with it.

The commands for installing it usingnpm oryarn are given below:

npm yarn npm install alchemy-sdk yarn add alchemy-sdk

Request

JavaScript // Imports the Alchemy SDK const {Alchemy ,Network }= require ("alchemy-sdk");// Configures the Alchemy SDK const config = {apiKey :"alchemy-replit" ,// Replace with your API key network :Network .ETH_MAINNET ,// Replace with your network };// Creates an Alchemy object instance with the config to use for making requests const alchemy = new Alchemy (config);// Example of using the call method const main = async ()=> {//Initialize a variable for the transaction object let $tx = \{to :"0x4976fb03C32e5B8cfe2b6cCB31c09Ba78EBaBa41" ,gas :"0x76c0" ,gasPrice :"0x9184e72a000" ,data :"0x3b3b57debf074faa138b72c65adbdcfb329847e4f2c04bde7f7dd7fcad5a52d2f395a558" ,}let response = await alchemy .core .call (tx)//Logging the response to the console console .log (response) };main ();$

Response

Shell 0x00000000000000000000005555763613a12d8f3e73be831dff8598089d3dca

Code Sandbox

You can test out the call method using the code sandbox below:

Use Cases

The call method is used for making low-level calls to the EVM blockchains. It can be used for a variety of use cases, including:

- · Reading data from smart contracts
- · : Developers can use the
- cal
- method to read data from a smart contract on the EVM blockchain.
- · Querying blockchain data
- : Developers can use the
- cal
- method to query blockchain data, such as account balances, transaction history, and block data.

Overall, the call method is a versatile SDK method that can be used for a wide range of tasks related to interacting with the EVM blockchain.

Updated 5 months ago

Alchemy SDK V2 vs. V3 Method Differences getAssetTransfers - SDK Did this page help you?Yes No