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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:
#000000 !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: #000000 !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 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.

Note

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, 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.
- 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.

Example Request and Response

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

The commands for installing it using npm or yarn are given below:

```
npm yarn npm install alchemy-sdk@latest yarn add alchemy-sdk@latest
```

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

[illegible]

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
- `eth_call`: Developers can use the `eth_call` method to read data from a smart contract on the EVM blockchain.
- Querying blockchain data
- `eth_getBlockByHash`: Developers can use the `eth_getBlockByHash` 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

[SDK Core Methods send - SDK](#) Did this page help you? Yes No