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eth estimateGas - Base

post https://{network}.g.alchemy.com/v2/{apiKey} Generates and returns an estimate of how much gas is necessary to allow the transaction to complete. The transaction will not be added to the blockchain.

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; marginbottom: 7px; margin-top: 0px; color: #00000 limportant; } .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: #FFFFF limportant; background: linear-gradient(126.33deg, #36BEFF 5.38%, #733FF1 108.32%); border-radius: 6px; font-size: 16px; lineheight: 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

Note

The estimate may be significantly more than the amount of gas actually used by the transaction, for a variety of reasons including EVM mechanics and node performance. Estimates are served directly from nodes, we're not doing anything special to the value so the rest of the network is likely seeing the same.

Parameters

```
    Object

      • The transaction call object* from
      o :
      DATA
      \circ\,\, , 20 Bytes - (optional) The address the transaction is sent from.
      • to
      o :
      DATA
      \circ\,\, , 20 Bytes - The address to which the transaction is directed to.
      • gas
```

٥	QUANTITY
٥	 (optional) Integer of the gas provided for the transaction execution.
0	eth_call
0	consumes zero gas, but this parameter may be needed by some executions.NOTE: this parameter has a cap of550 million
0	Gwei per request. Reach out to us abupport@alchemy.com
0	if you want to increase this limit.
0	gasPrice
0	:
0	QUANTITY
0	• (optional) Integer of the
0	gasPrice
0	used for each paid gas.
0	value
0	:
0	QUANTITY
0	• (optional) Integer of the value sent with this transaction
0	data
0	:
0	DATA
。 JA	 (optional) Hash of the method signature and encoded parameters. For details see Ethereum Contract ABI NTITY TAG
0	integer block number, or the string "latest", "earliest" or "pending", see the default block parameter

Note

- $\bullet \ \ eth_estimateGas$
- will check the balance of the sender (to make sure that the sender has enough gas to complete the request). This means that even though the call doesn't consume any gas, the
- from
- address must have enough gas to execute the transaction.
- If no
- gas
- is specified geth uses the block gas limit from the pending block as an upper bound. As a result, the returned estimate might not be enough to execute the call/transaction when the amount of actual gas needed is higher than the pending block gas limit.

Returns

QUANTITY - the amount of gas used.

Example

Request

alchemyweb3.js ethers.js web3.py cURL Postman SDK // Installation instructions: https://github.com/alchemyplatform/alchemy-web3 async function main () {// alchemy-token-api/alchemy-web3-script.js import {createAlchemyWeb3 }from "@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 estGas = await web3 .eth .estimateGas ({from :"0xge61df" ,to :"0x087a5c" ,data :"0xa9059c" ,gasPrice :"0xa994f8" , })// Print the output to console console .log (estGas); }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 .JsonRpcProvider ('https://eth-mainnet.g.alchemy.com/v2{apiKey}' ,);// Query the blockchain (replace example parameters) const estGas = await provider

.estimateGas ({from :"0xge61df" ,to :"0x087a5c" ,data :"0xa9059c" ,gasPrice :"0xa994f8" , })// Print the output to console console .log (estGas); }main ()

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

from web3 import Web3 ,HTTPProvider

Replace with your Alchemy API key:

const 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) estGas = web3 .eth .estimate_gas ({'to' :'0xd3CdA913deB6f67' ,'from' :web3 .eth .coinbase ,'value' :12345 })# Print the output to console print (estGas) curl https://eth-mainnet.g.alchemy.com/v2/your-api-key -X POST -H "Content-Type: application/json" -d '{"jsonrpc":"2.0","method":"eth_estimateGas","params":[{"from": "0x8D97689C9818892B700e27F316cc3E41e17fBeb9","to": "0xd3CdA913deB6f67967B99D67aCDFa1712C293601","value": "0x186a0"}],"id":1}' URL: https://eth-mainnet.g.alchemy.com/v2/your-api-key RequestType: POST Body:

{ "jsonrpc":"2.0", "method":"eth_estimateGas", "params":[{ "from": "0x8D97689C9818892B700e27F316cc3E41e17fBeb9", "to": "0xd3CdA913deB6f67967B99D67aCDFa1712C293601", "value": "0x186a0" }], "id":1 } // Setup: npm install alchemy-sdk // Github: https://github.com/alchemyplatform/alchemy-sdk-js import {Network ,Alchemy ,parseEther }from "alchemy-sdk" ;// Optional config object, but defaults to demo api-key and eth-mainnet. const settings = {apiKey :"demo" ,// Replace with your Alchemy API Key. network :Network .ETH_MAINNET ,// Replace with your network. };const alchemy = new Alchemy (settings);alchemy .core .estimateGas ({// Wrapped ETH address to :"0xC02aaA39b223FE8D0A0e5C4F27eAD9083C756Cc2" ,// function deposit() payable data :"0xd0e30db0" ,// 1 ether value :parseEther ("1.0"), }} .then (console .log);

Result

JavaScript {"id" :1 ,"jsonrpc" :"2.0" ,"result" :"0x5208" // 21000 }

The below parameter inputs do not work, please reference the section above instead.

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 params Transaction Object Block Number or Tag Transaction Object Block Number or Tag

Response

200

Returns the amount of gas used.

Response body object id integer jsonrpc string result string

Updated 4 months ago

eth call - Base eth fee History - Base Did this page help you? Yes No