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getCode - SDK

Returns the contract code of the provided address at the block. If there is no contract deployed, the result is 0x.

All CSS

margin-bottom: 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; 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/

```
@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 contullia [
       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 Ift 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 contract code of the provided address at the block. If there is no contract deployed, the result is 0x.

Parameters

Name Type Description addressOrName string The address or ENS name of the account to get the code for. blockTag string The optional block number or hash. Defaults to latest if unspecified.

blockTag

parameters

- pending
 - A sample next block built by the client on top of
- latest
- and containing the set of transactions usually taken from
- localmempool. 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

Response

Property Type Description Promise string Returns the code.

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 varn npm install alchemy-sdk@latest varn add alchemy-sdk@latest

Request

Here is an example of how to make a getCode request using the Alchemy SDK:

getcode.js // 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);const main = async ()=> {let address = "registrar.firefly.eth" //Call the method to retrieve code of address let response = await alchemy .core .getCode (address)//Logging the response to the console console .log (response) };main ();

Response

Code Sandbox

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

Use Cases

The everyday use case for the getCode method is to return the contract code of an address on the blockchain. However, here are some other possible use cases for the getCode method:

- Contract verification
- : Developers can use the
- getCode
- method to verify that the bytecode of a deployed contract matches the expected bytecode. This can be used to ensure that a contract has not been tampered with or to verify that a contract has been deployed correctly
- Contract debugging
- : If a contract is not behaving as expected, developers can use
- getCode
- to retrieve the bytecode and examine it for errors or unexpected behavior.
- Contract analysis
- : Researchers or security auditors might use
- getCode
- to analyze the bytecode of a contract for vulnerabilities or other issues
- Contract migration
 If a contract needs to be migrated to a new address, developers can use
- to retrieve the bytecode of the existing contract and then deploy it to the new address.

Overall, getCode is a useful tool for developers who are building on the EVM networks and need to interact with deployed contracts. It can be used for various purposes, from debugging and analysis to migration and verification

Related Methods

Here are the methods related to getCode:

- : Returns the block from the network based on the provided block number or hash
- Returns the block number of the most recently mined block.

Updated 5 months ago

getBlockWithTransactions - SDK getFeeData - SDK Did this page help you?Yes No