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getTokenBalances - SDK

Returns the ERC-20 token balances for a specific owner address.

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_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 limportant; } .api key instruct ban lft h3:last-child{ margin-bottom: 0; } .api key instruct ban Ift 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 ERC-20 token balances for a specific owner address.

Parameters

Name Type Description addressOrName string The owner address or ENS name to get the token balances for. contractAddresses (optional) array List of contract addresses to filter by.

Response

Parameter Type Description Promise object The ERC-20 token balances.

TokenBalancesResponse

response object parameters

Property Type Description address string Returns the value at this storage position. tokenBalances array returns an array of token balance objects. Each object contains: contractAddress, tokenBalance:hex-encoded, error: One of tokenBalance or error will be null.

TokenBalancesResponseErc20

response object parameters

Property Type Description address string Returns the value at this storage position. tokenBalances array returns an array of token balance objects. Each object contains: contractAddress, tokenBalance:hex-encoded, error: One of tokenBalance or error will be null. pageKey? string This applies only to the erc20 request type. An address to be passed into the pageKey of the next request to paginate through an owner's tokens.

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

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

gettokenbalances.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 ()=> {//Initialize variables for the parameters let vitalikAddress = "0xd8dA6BF26964aF9D7eEd9e03E53415D37aA96045" ;let usdcContract =

"0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48" ;//Call the method to return the token balances for this address let response = await alchemy .core .getTokenBalances (vitalikAddress , [usdcContract])//Logging the response to the console console .log (response) };main ();

Response

Code Sandbox

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

Use Cases

For guidance on how to leverage this method, check out the following tutorials:

- How to Get Token Balance for an Address
- · How to Get All Tokens Owned by an Address

Related Methods

Here are the methods related to getTokenBalances :

- getBlock
- : Returns the block from the network based on the provided block number or hash.
- getBalance
- : Returns the balance of a given address as of the provided block.

Updated 5 months ago

getStorageAt - SDK getTokenMetadata - SDK Did this page help you?Yes No