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getTokensForOwner - SDK

Returns the tokens that the specified address owns, along with the amount of each token and the relevant metadata.

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_cm_n_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 tokens that the specified address owns, along with the amount of each token and the relevant metadata.

Parameters

Name	Type	Description
addressOrName	string	The owner address to get the tokens with balances for.
options	options?	Additional options to pass to the request.

GetTokensForOwnerOptions

parameters

Parameters	Type	Description
contractAddresses	string optional	List of contract addresses to filter by. If omitted, it defaults to TokenBalanceType.ERC20 .
pageKey	string	Optional page key to use for pagination.

Response

Parameters Type Description Promise object Returns the tokens that the specified address owns and relevant metadata.

GetTokensForOwnerResponse

response parameters

Property Type Description pageKey string optional Page key for the next page of results, if one exists. tokens OwnedToken Owned tokens for the provided addresses along with relevant metadata. The following parameters are associated with the OwnedToken object:

1.balance

string The formatted value of the balance field as a hex string. This value is undefined if the error field is present or if the decimals field = undefined . 2.contractAddress - string The contract address of the token. 3.decimals - number The number of decimals of the token. It is undefined if not defined in the contract and unavailable from other sources. 4.error - string Error from fetching the token balances. None of the other fields will be defined if this field is defined. 5.logo - string URL link to the token's logo. It is undefined if the logo is not available. 6.name - string The token's name. It is undefined if the name is not defined in the contract and is unavailable from other sources. 7.rawBalance - string The raw value of the balance field as a hex string. 8.symbol - string The token's symbol. It is undefined if the symbol is not defined in the contract and unavailable from other sources.

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 yarn add alchemy-sdk
```

Request

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

```
getTokensForOwner.js // Imports the Alchemy SDK const {Alchemy ,Network }= require ("alchemy-sdk" );// Configures the Alchemy SDK const config = {apiKey : "demo" ,// 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 ()=> {//Define the owner address or name const ownerAddress = "0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48" //The response returns the tokens the address owns and relevant metadata. let response = await alchemy .core .getTokensForOwner (ownerAddress )//Logging the response to the console console .log (response ) };main ();
```

Response

```
Shell decimals:0 , logo: undefined, name:"" , symbol:"" , balance:'5906142000000000000000000000' }, { contractAddress:'0x01e849040c418c3b7f130351a6e4630c08a7d98e' , rawBalance:'3848' , decimals:2 , logo: undefined, name:'UNI' , symbol:'www.uniswap.cab' , balance:'38.48' }, { contractAddress:'0x6fb3e0a217407eff7ca062d46c26e5d60a14d69' , rawBalance:'20016200000000000000000000' , decimals:18 , logo:'https://static.alchemyapi.io/images/assets/2777.png' , name:'IoTeX' , symbol:'IOTX' , balance:'200162.0' }, { contractAddress:'0x73dabaff2d1a1fd00cd11998d3cb8d3ae2d2fe8a' , rawBalance:'27000000' , decimals:6 , logo: undefined, name:'USDC' , symbol:'USDC' , balance:'27.0' }, { contractAddress:'0x761d38e5ddf6ccf6cf7c55759d5210750b5d60f3' , rawBalance:'1147579083426018352959478600' , decimals:18 , logo:'https://static.alchemyapi.io/images/assets/9436.png' , name:'Dogelon Mars' , symbol:'ELON' , balance:'1147579083.4260183529594786' }, { contractAddress:'0x7a6b87d7a874fce4c2d923b09c0e09e4936bcf57' , rawBalance:'7000' , decimals:0 , logo: undefined, name:' USTBonus.com' , symbol:' Visit USTBonus.com to claim' , balance:'7000' }, { contractAddress:'0x7c5cb1220bd293ff9cf903915732e51a71292038' , rawBalance:'35000000000000000000000000' , decimals:18 , logo: undefined, name:'YottaLing' , symbol:'YTL' , balance:'3500.0' }, { contractAddress:'0x7cd167b101d2808cfd2c45d17b2e7ea9f46b74b6' , rawBalance:'2607941405900000000000' , decimals:18 , logo: undefined, name:'USD Coin (Wormhole)' , symbol:'USDC' , balance:'260.79414059' }, { contractAddress:'0x7d1afa7b718fb893db30a3abc0cfc608aacf6bb0' , rawBalance:'10000000000000000000000' , decimals:18 , logo:'https://static.alchemyapi.io/images/assets/3890.png' , name:'Polygon' , symbol:'MATIC' , balance:'1.0' }, { contractAddress:'0x7e7c005c8fcd5e18c03db8014af44ce5837c5f08' , rawBalance:'58865000000000000000000000000000' , decimals:0 , logo: undefined, name:"" , symbol:"" , balance:'58865000000000000000000000000000' }, { contractAddress:'0x82cbd1a309a5de0ba4042f245df075cb55093e53' , rawBalance:'66600000000000000000000000' , decimals:18 , logo: undefined, name:'QUANT' , symbol:'QNT' , balance:'666.0' }, { contractAddress:'0x85332b222787eacab0fff68cf3b884798823528c' , rawBalance:'666' , decimals:0 , logo: undefined,
```

```

name:'WinETHFree', symbol:'winethfree.com (Win ETH Free)', balance:'666' }, {
contractAddress:'0x89d24a6b4ccb1b6faa2625fe562bdd9a23260359', rawBalance:'22097520248770066535', decimals:18 ,
logo:'https://static.alchemyapi.io/images/assets/2308.png', name:'Single Collateral DAI', symbol:'SAI',
balance:'22.097520248770066535' }, { contractAddress:'0x8b3192f5eebd8579568a2ed41e6feb402f93f73f',
rawBalance:'6253870435272180982', decimals:9 , logo:'https://static.alchemyapi.io/images/assets/10498.png',
name:'Saitama', symbol:'SAITAMA', balance:'6253870435.272180982' }, {
contractAddress:'0x8b3870df408ff4d7c3a26df852d41034eda11d81', rawBalance:'637762212', decimals:6 ,
logo:'https://static.alchemyapi.io/images/assets/10295.png', name:'LOI Token', symbol:'LOI', balance:'637.762212' }, {
contractAddress:'0x8d1c555ec2f99a3d6a82bd3a725b5b65b65d0d69', rawBalance:'100000', decimals:0 , logo: undefined,
name:' HEXBonus.com', symbol:' HEXBonus.com <- Visit to claim!', balance:'100000' }, {
contractAddress:'0x91bc206f0a1ffbc399b4a20a41324ed1dad2b718', rawBalance:'1000', decimals:0 , logo: undefined,
name:'Bullshit', symbol:'BSH', balance:'1000' }, { contractAddress:'0x938af1975d026d2a657f11dc99c4fb1a4e7116ae',
rawBalance:'588650000000000000000000000000', decimals:0 , logo: undefined, name:'', symbol:'',
balance:'588650000000000000000000000000' }, { contractAddress:'0x9412796c9c9def387626825a76b7cceb28ab42c',
rawBalance:'0', decimals:18 , logo: undefined, name:'PulseX', symbol:'PULSE', balance:'0.0' }, {
contractAddress:'0x95ad61b0a150d79219dcf64e1e6cc01f0b64c4ce', rawBalance:'163283668535754919854895611',
decimals:18 , logo:'https://static.alchemyapi.io/images/assets/5994.png', name:'Shiba Inu', symbol:'SHIB',
balance:'163283668.535754919854895611' }, { contractAddress:'0x981dc247745800bd2ca28a4bf147f0385eaa0bc0',
rawBalance:'88800000000000000000', decimals:18 , logo:'https://static.alchemyapi.io/images/assets/22651.png',
name:'NutsDAO', symbol:'NUTS', balance:'8.88' }, { contractAddress:'0x98976a6dfaaf97b16a4bb06035cc84be12e79110',
rawBalance:'50000000000000000000', decimals:18 , logo: undefined, name:'MYOUToken', symbol:'MYOU', balance:'0.5' }, {
contractAddress:'0x98a83960c52dc6ccc1765a25361b08b43aa38128', rawBalance:'10000000', decimals:8 , logo:
undefined, name:'Asia Eternal Coin', symbol:'AE', balance:'0.1' }, {
contractAddress:'0x993864e43caa7f7f12953ad6feb1d1ca635b875f', rawBalance:'76000000000000000000', decimals:18 ,
logo:'https://static.alchemyapi.io/images/assets/9638.png', name:'SingularityDAO', symbol:'SDAO', balance:'76.0' }, {
contractAddress:'0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48', rawBalance:'0', decimals:6 ,
logo:'https://static.alchemyapi.io/images/assets/3408.png', name:'USD Coin', symbol:'USDC', balance:'0.0' }, {
contractAddress:'0xa101e27f06a97985b925e24411b61560ecd97db', rawBalance:'20000000000000000000', decimals:18 ,
logo:'https://static.alchemyapi.io/images/assets/4534.png', name:'BITTO', symbol:'BITTO', balance:'2.0' }, {
contractAddress:'0xa24a4955ee7aa09a6a9e660f991a49af09460a0d', rawBalance:'1940000000000000', decimals:9 , logo:
undefined, name:'Proof Of UP', symbol:'PoUP', balance:'1940000.0' }, {
contractAddress:'0xa47c8bf37f92abed4a126bda807a7b7498661acd', rawBalance:'80000000000000000000', decimals:18
, logo:'https://static.alchemyapi.io/images/assets/7129.png', name:'TerraUSD', symbol:'UST', balance:'800.0' }, {
contractAddress:'0xa5269a8e31b93ff27b887b56720a25f844db0529', rawBalance:'14967756400731753690911',
decimals:18 , logo: undefined, name:'Morpho-Aave USD Coin Supply Vault', symbol:'maUSDC',
balance:'14967.756400731753690911' } ], pageKey: undefined }

```

Code Sandbox

You can test out the `getTokensForOwner` method using the code sandbox below:

Use Cases

Here are some possible use cases for the `getTokensForOwner` method:

- Portfolio Management
 - : The `getTokensForOwner` method allows developers to build applications that help users manage their crypto portfolios. By querying the tokens owned by a specific address, developers can provide users with an overview of their token holdings, including the token balances and associated metadata.
- Token Listings
 - : Platforms that list tokens or marketplaces can utilize the `getTokensForOwner` method to gather information about the tokens owned by an address. This data can display the tokens available for trade or sale, including their attributes, prices, and other relevant details.
- Automated Tasks
 - : Blockchain developers often need to automate certain tasks based on token ownership. By using the `getTokensForOwner` method, developers can programmatically check if an address owns specific tokens and perform actions accordingly. For example, triggering events or executing smart contract functions based on token ownership

Related Methods

Here are some methods related to the `getTokensForOwner` method:

- [getTokenBalances](#)
- : Returns the ERC-20 token balances for a specific owner address.

Updated 5 months ago

[getNftMetadataBatch - SDK](#) [getStorageAt - SDK](#) Did this page help you? Yes No