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NFT API Quickstart

Go from zero to hero with the Alchemy NFT API. Learn how to query NFT data, then dive into some fun tutorials!

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; } .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; }

.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 the NFT API in your app today.Get started for free dont_have_api_sec_end

Getting Started Instructions

Follow along with the steps below to get started with the NFT API:

1. Choose a package manager
2. Set up your repo
3. Choose a library
4.
    1. Alchemy SDK
5.
    1. (recommended)
6.
    1. Node-Fetch
7.
    1. Axios

1. Choose a package manager

For this guide, we will be using npm or yarn as our package manager to install either alchemy-sdk , fetch , or axios .

npm

To get started with npm , follow the documentation to install Node.js and npm for your operating systemhttps://docs.npmjs.com/downloading-and-installing-node-js-and-npm

yarn

To get started with yarn , follow these stepshttps://classic.yarnpkg.com/lang/en/docs/install

2. Set up your repo

npm

Open up a terminal, and from the command line, create a new repository to hold your quickstart scripts. We'll also initialize the repo as an npm project.

Shell mkdir alchemy-nft-apicd alchemy-nft-apinpm init--yes

yarn

Shell mkdir alchemy-nft-apicd alchemy-nft-api yarn init--yes

Support Import Syntax

Since we'll be using import syntax to load ES6 modules, add 'type': 'module' to your package.json file:

// package.json { ... "type": "module" } Seethis discussion for more context.

3. Choose a Library

a) Alchemy SDK (Recommended

)

You can install the alchemy-sdk-js module to easily interact with Alchemy APIs. We highly recommend using the Alchemy SDK because you also get WebSocket support, retries, and other benefits without the complexity!

For full documentation on alchemy-sdk-js , check the GitHub repo:

github.com GitHub - alchemyplatform/alchemy-sdk-js

Installation

Run the following command to install alchemy-web3 with npm and yarn

npm yarn npm install alchemy-sdk yarn add alchemy-sdk

Demo Script

github.com nft-api-javascript-scripts/alchemy-sdk-script.js at main · alchemyplatform/nft-api-javascript-scripts The demo script for the Alchemy SDK

In your alchemy-nft-api directory, you can create a new file called alchemy-sdk-script.js using your favorite file browser, code editor, or just directly in the terminal using the touch command like this:

Shell touch alchemy-sdk-script.js and then paste the following code snippet into the file:

alchemy-sdk-script.js // This script demonstrates access to the NFT API via the Alchemy SDK. import {Network ,Alchemy }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);// Print owner's wallet address: const ownerAddr = "vitalik.eth" ;console .log ("fetching NFTs for address:" ,ownerAddr);console .log ("...");// Print total NFT count returned in the response: const nftsForOwner = await alchemy .nft .getNftsForOwner ("vitalik.eth");console .log ("number of NFTs found:" ,nftsForOwner .totalCount);console .log ("...");// Print contract address and tokenId for each NFT: for (const nft of nftsForOwner .ownedNfts) {console .log ("===");console .log ("contract address:" ,nft .contract .address);console .log ("token ID:" ,nft .tokenId); }console .log ("===");// Fetch metadata for a particular NFT: console .log ("fetching metadata for a Crypto Coven NFT...");const response = await alchemy .nft .getNftMetadata ("0x5180db8F5c931aaE63c74266b211F580155ecac8" ,"1590");// Uncomment this line to see the full api response: // console.log(response); // Print some commonly used fields: console .log ("NFT name: " ,response .title);console .log ("token type: " ,response .tokenType);console .log ("tokenUri: " ,response .tokenUri .gateway);console .log ("image url: " ,response .rawMetadata .image);console .log ("time last updated: " ,response .timeLastUpdated);console .log ("==="); From your command line, you can execute the script with:

Shell node alchemy-sdk-script.js You should see output like this:

Shell node alchemy-sdk-script.js Σ ✔ ϒ 4s fetching NFTsfor address: vitalik.eth ... number of NFTs found:516 ...=== contract address: 0x000386e3f7559d9b6a2f5c46b4ad1a9587d59dc3 token ID:29 === contract address: 0x000386e3f7559d9b6a2f5c46b4ad1a9587d59dc3 token ID:238 === .....=== fetching metadatafor a Crypto Coven NFT... NFT name: balsa vault token type: ERC721 tokenUri: https://alchemy.mypinata.cloud/ipfs/QmaXzZhcYnsisuue5WRdQDH6FDvqkLQX1NckLqBYeYYEfm/1590.json image url: https://cryptocoven.s3.amazonaws.com/a7875f5758f85544dcaab79a8a1ca406.png time last updated:2022 -06-23T06 :48:33.229Z=== For full documentation on the available endpoints for alchemy-sdk , check the github repo:

github.com GitHub - alchemyplatform/alchemy-sdk-js

b) Node-Fetch

node-fetch is a lightweight, common module that brings the Fetch API to Node.js and allows us to make our HTTP requests.

See the documentation for more infohttps://www.npmjs.com/package/node-fetch

Installation

Run the following command to install node-fetch with npm and yarn

npm yarn npm install node-fetch yarn add node-fetch

Demo Script

github.com nft-api-javascript-scripts/fetch-script.js at main · alchemyplatform/nft-api-javascript-scripts In your alchemy-nft-api directory, you can create a new file called fetch-script.js using your favorite file browser, code editor, or just directly in the terminal using the touch command like this:

fetch-script.js touch fetch-script.js and then paste the following code snippet in to explore thegetNFTs orgetNFTMetadata methods:

fetch-script.js (getNFTsForOwner) fetch-script.js (getNFTMetadata) // alchemy-nft-api/fetch-script.js import fetch from 'node-fetch' ;// Setup request options: var requestOptions = {method :'GET' ,redirect :'follow' };// Replace with your Alchemy API key: const apiKey = "demo" ;const baseURL = https://eth-mainnet.g.alchemy.com/nft/v3{ apiKey }/getNFTsForOwner/ ;// Replace with the wallet address you want to query: const ownerAddr = "0xd8dA6BF26964aF9D7eEd9e03E53415D37aA96045" ;const pageSize = 2 ;const fetchURL = { baseURL }?owner={ ownerAddr }&pageSize={ pageSize } ;// Make the request and print the formatted response: fetch (fetchURL ,requestOptions) .then (response => response .json ()) .then (response => JSON .stringify (response ,null ,2)) .then (result => console .log (result)) .catch (error => console .log ('error' ,error)); import fetch from 'node-fetch' ;var requestOptions = {method :'GET' ,redirect :'follow' };const apiKey = "demo" const baseURL = https://eth-mainnet.g.alchemy.com/nft/v3{ demo }/getNFTMetadata ;const contractAddr = "0xbc4ca0eda7647a8ab7c2061c2e118a18a936f13d" ;const tokenId = "2" ;const tokenType = "erc721" ;const fetchURL ={ baseURL }?contractAddress={ contractAddr }&tokenId={ tokenId }&tokenType={ tokenType } ;fetch (fetchURL ,requestOptions) .then (response => response .json ()) .then (response => JSON .stringify (response ,null ,2)) .then (result => console .log (result)) .catch (error => console .log ('error' ,error)); From your command line, you can execute the script with:

Shell node fetch-script.js Your output should look like the following:

getNFTsForOwner getNFTMetadata {"ownedNfts" : [{"contract" : {"address" :"0x000386E3F7559d9B6a2F5c46B4aD1A9587D59Dc3" ,"name" :"Bored Ape Nike Club" ,"symbol" :"BANC" ,"totalSupply" :null ,"tokenType" :"ERC721" ,"contractDeployer" :"0x51D7D428041E23ef51422e110dfEfF906e821CFe" ,"deployedBlockNumber" :14276343 ,"openSeaMetadata" : {"floorPrice" :null ,"collectionName" :"BoredApeNikeClub" ,"collectionSlug" :"bored-ape-nike-club-v2" ,"safelistRequestStatus" :"not_requested" ,"imageUrl" :"https://i.seadn.io/gae/yJ9DgXqjRwgdCkrQmHj7krCbixM8fPVAyYJWJ5NHXap1L0c3QL5MPvrNT0QDINISt GOK857lOvab8MpNQS9X4pkHPktmhVmN82qoVw?w=500&auto=format" ,"description" :"COUNTDOWN OVER. MINTING LIVE.\n\nMint on the website.\n" ,"externalUrl" :"https://nikemetaverse.xyz" ,"twitterUsername" :null ,"discordUrl" :null ,"bannerImageUrl" :"https://i.seadn.io/gae/i84LsC2dtbF5I3YiuaXzzfvSijlBl-ZJ8UEta04UkI4V57Uoj0ZGw8tNyuPdwrF7N5pclyzdqSJjxHZ65z4G5jQrVRK_DHUMVrzTYQ?w=500&auto=format" ,"lastIngestedAt" :"2023-10-30T07:13:52.000Z" },"isSpam" :true ,"spamClassifications" : ["OwnedByMostHoneyPots" ,"Erc721TooManyOwners" ,"Erc721TooManyTokens" ,"NoSalesActivity" ,"HighAirdropPercent" ,"HighHoneyPotPercent" ,"HoneyPotsOwnMultipleTokens"] },"tokenId" :"1" ,"tokenType" :"ERC721" ,"name" :null ,"description" :null ,"tokenUri" :"http://api.nikeapenft.xyz/ipfs/1" ,"image" : {"cachedUrl" :null ,"thumbnailUrl" :null ,"pngUrl" :null ,"contentType" :null ,"size" :null ,"originalUrl" :null },"raw" : {"tokenUri" :"http://api.nikeapenft.xyz/ipfs/1" ,"metadata" : {},"error" :null },"collection" : {"name" :"BoredApeNikeClub" ,"slug" :"bored-ape-nike-club-v2" ,"externalUrl" :"https://nikemetaverse.xyz" ,"bannerImageUrl" :"https://i.seadn.io/gae/i84LsC2dtbF5I3YiuaXzzfvSijlBl-ZJ8UEta04UkI4V57Uoj0ZGw8tNyuPdwrF7N5pclyzdqSJjxHZ65z4G5jQrVRK_DHUMVrzTYQ?w=500&auto=format" },"mint" : {"mintAddress" :null ,"blockNumber" :null ,"timestamp" :null ,"transactionHash" :null },"owners" :null ,"timeLastUpdated" :"2023-11-06T04:34:38.880Z" ,"balance" :"26" ,"acquiredAt" : {"blockTimestamp" :null ,"blockNumber" :null } }, {"contract" : {"address" :"0x000386E3F7559d9B6a2F5c46B4aD1A9587D59Dc3" ,"name" :"Bored Ape Nike Club" ,"symbol" :"BANC" ,"totalSupply" :null ,"tokenType" :"ERC721" ,"contractDeployer"

:"0x51D7D428041E23ef51422e110dfEfF906e821CFe" ,"deployedBlockNumber" :14276343 ,"openSeaMetadata" : {"floorPrice" :null ,"collectionName" :"BoredApeNikeClub" ,"collectionSlug" :"bored-ape-nike-club-v2" ,"safelistRequestStatus" :"not_requested" ,"imageUrl" :"https://i.seadn.io/gae/yJ9DgXqjRwgdCkrQmHj7krCbixM8fPVAyYJWJ5NHXap1L0c3QL5MPvrNT0QDINISt GOK857lOvab8MpNQS9X4pkHPktmhVmN82qoVw?w=500&auto=format" ,"description" :"COUNTDOWN OVER. MINTING LIVE.\n\nMint on the website.\n" ,"externalUrl" :"https://nikemetaverse.xyz" ,"twitterUsername" :null ,"discordUrl" :null ,"bannerImageUrl" :"https://i.seadn.io/gae/i84LsC2dtbF5l3YiuaXzzfvSijlBI-ZJ8UEta04Ukl4V57Uoj0ZGw8tNyuPdwrF7N5pclyzdqSJjxHZ65z4G5jQrVRK_DHUMVrzTYQ?w=500&auto=format" ,"lastIngestedAt" :"2023-10-30T07:13:52.000Z" },"isSpam" :true ,"spamClassifications" : ["OwnedByMostHoneyPots" ,"Erc721TooManyOwners" ,"Erc721TooManyTokens" ,"NoSalesActivity" ,"HighAirdropPercent" ,"HighHoneyPotPercent" ,"HoneyPotsOwnMultipleTokens"] },"tokenId" :"2" ,"tokenType" :"ERC721" ,"name" :null ,"description" :null ,"tokenUri" :"http://api.nikeapenft.xyz/ipfs/2" ,"image" : {"cachedUrl" :null ,"thumbnailUrl" :null ,"pngUrl" :null ,"contentType" :null ,"size" :null ,"originalUrl" :null },"raw" : {"tokenUri" :"http://api.nikeapenft.xyz/ipfs/2" ,"metadata" : {},"error" :null },"collection" : {"name" :"BoredApeNikeClub" ,"slug" :"bored-ape-nike-club-v2" ,"externalUrl" :"https://nikemetaverse.xyz" ,"bannerImageUrl" :"https://i.seadn.io/gae/i84LsC2dtbF5l3YiuaXzzfvSijlBI-ZJ8UEta04Ukl4V57Uoj0ZGw8tNyuPdwrF7N5pclyzdqSJjxHZ65z4G5jQrVRK_DHUMVrzTYQ?w=500&auto=format" },"mint" : {"mintAddress" :null ,"blockNumber" :null ,"timestamp" :null ,"transactionHash" :null },"owners" :null ,"timeLastUpdated" :"2023-11-06T11:46:38.867Z" ,"balance" :"31" ,"acquiredAt" : {"blockTimestamp" :null ,"blockNumber" :null } }],"totalCount" :26620 ,"validAt" : {"blockNumber" :18513471 ,"blockHash" :"0x49376e3ea0d07b4b557521832ac2f52213b12bf912087ac1fe9f04c9899d221b" ,"blockTimestamp" :"2023-11-06T14:15:23Z" },"pageKey" :"MHgwMDAzODZlM2Y3NTU5ZDliNmEyZjVjNDZiNGFkMWE5NTg3ZDU5ZGMzOjB4MDAwMDAwMDAwM

- How to Get a List of NFT Holders for a Given Collection
- : Learn how to get a list of all wallets that own a specific NFT collection.
- How to Resolve ENS Domains Given a Wallet Address
- : This tutorial uses Alchemy's NFT API to fetch all ENS Domain Names owned by a user.

Each tutorial includes step-by-step instructions and code examples to help you follow along and build your own app.

Thank you for using the NFT API, and happy coding!

Updated 5 months ago

Compute Unit Costs NFT API Endpoints Overview Did this page help you?Yes No