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getNftsForOwnerIterator - SDK

Fetches all NFTs for a given owner and yields them in an async iterable. This method returns the full NFT for the owner and pages through all page keys until all NFTs have been fetched. To get all NFTs without their associated metadata, use the options parameter in the request's body.

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 Ift 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 Ift 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: 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

Fetches all NFTs for a given owner and yields them in an async iterable.

This method returns the full NFT for the owner and pages through all page keys until all NFTs have been fetched. To get all NFTs without their associated metadata, use the options parameter by setting omitMetadata to true in the body of the request.

Parameters

Name Type Description owner string The address of the owner. options string The optional parameters to use for the request.

options

parameters

Available options include: SPAM, AIRDROPS includeFilters? string Optional list of filters applied to the query. NFTs that match one or more of these filters are included in the response.

Available options include: SPAM, AIRDROPS. pageSize? number Sets the total number of NFTs to return in the response. Defaults to 100. Maximum page size is 100. token Uri Timeout In Ms? number No set timeout by default - When metadata is requested, this parameter is the timeout (in milliseconds) for the website hosting the metadata to respond.

If you want only to access the cache and not live to fetch any metadata for cache misses, then set this value to 0 . orderBy? string Order in which to return results. By default, results are ordered by contract address and token ID in lexicographic order.

The available option is TRANSFERTIME . pageKey? string Optional page key to use for pagination.

Response

Property Type Description AsyncIterable object An object containing nfts owned by an owner.

OwnedNft

response object properties

Property Type Description contract object The NFT's underlying contract and relevant contract metadata.

Parameters in the contract include:

- 1. address: string The address of the NFT contract. 2. tokenType: object The type of the token in the contract 3. name: string The name of the contract. 4. symbol: string The symbol of the contract. 5. totalSupply?: string The number of NFTs in the contract as an integer string. This field is only available on ERC-721 contracts. 6. openSeaMetadata: object OpenSea's metadata for the contract. 7. contractDeployer?: string The address that deployed the NFT contract. 8. deployedBlockNumber?: number The block number the NFT contract deployed in. 9. isSpam: boolean Whether the NFT contract is marked as spam. 10. spamClassifications: array Potential reasons why an NFT Contract was classified as spam. tokenId string The unique identifier of the token. This could be in hexadecimal or decimal format. tokenType string The type of NFT, e.g., ERC721, ERC1155, UNKNOWN name string The NFT name. description string The NFT description. timeLastUpdated string When the NFT was last updated in the blockchain. Represented in ISO-8601 format. raw object The raw metadata for the NFT based on the metadata URI on the NFT contract.
- 1. tokenUri?: string: The raw token URI on the NFT contract. 2. metadata: string: The raw metadata parsed from the raw token URI. 3. error?: string: Error message if the raw metadata could not be fetched. tokenUri string URIs for accessing the NFT's metadata blob. image object Media URLs and information for the NFT. Parameters in this object include:
- cachedUrl: string: URL of the image stored in Alchemy's cache.
 thumbnailUrl: string: URL of a thumbnail-sized image.
 pngUrl: string: URL of the image in png format.
 contentType: string: The type of the media image. acquiredAt object Time at which the user most recently acquired the NFT. Only available when specifying orderBy:
 NftOrdering.TRANSFERTIME in the request.
- 1. blockTimestamp?: string: Timestamp of the block at which an NFT was last acquired. 2. blockNumber?: number: Block number of the block at which an NFT was last acquired. collection object Collection metadata for the NFT, if available. Parameters include:
- 1. name: string: The name of the collection. 2. slug?: string: The OpenSea human-readable slug of the collection. 3. externalUrl?: string: The external URL for the collection. 4. bannerImageUrl?: string: The banner image URL for the collection. balance string The token balance indicating how many units of this NFT the owner holds. mint object Mint information for the NFT. Parameters include:
- 1. mintAddress?: string: The address that the NFT was minted to. 2. blockNumber?: number: The block number that the NFT was minted on. 3. timestamp?: string: The timestamp the NFT was minted on. 4. transactionHash?: string: The transaction hash of the transaction that minted the NFT.

OwnedBaseNft

response object properties

The ownedBaseNft response object is returned when the options parameter omitMetadata is set to true.

Property Type Description contractAddress string The contract address of the NFT. tokenId string The unique identifier of the token. This could be in hexadecimal or decimal format. balance string The token balance indicating how many units of this NFT the owner holds.

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

index.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 ()=> {// define the owner address whose NFTs you want to fetch const owner = "0xe5cb067e90d5cd1f8052b83562ae670ba4a211a8" ;// create an async generator function that uses the getNftsForOwnerIterator method async function getNftsForOwner () {try {let nfts = [];// Get the async iterable for the owner's NFTs. const nftsIterable = alchemy .nft .getNftsForOwnerIterator (owner);// Iterate over the NFTs and add them to the nfts array. for await (const nft of nftsIterable) {nfts .push (nft); }// Log the NFTs. console .log (nfts); }catch (error) {console .log (error); } }getNftsForOwner (); };main ();

Response

```
JSON [ {"contract" : {"address" :"0x06012c8cf97BEaD5deAe237070F9587f8E7A266d" ,"name" :"CryptoKitties" ,"symbol"
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breedable, collectible, and oh-so-adorable creatures we call CryptoKitties! Each cat is one-of-a-kind and 100% owned by
you; it cannot be replicated, taken away, or destroyed." ,"externalUrl" :"https://www.cryptokitties.co/" ,"twitterUsername"
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Taro Adun! I'm Nala. I am currently trying to start my own company making berets for tripod kitties. I combine the best
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```
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},"timeLastUpdated":"2023-08-01T07:40:39.116Z","balance":"1","acquiredAt": {} } ]
```

Code Sandbox

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

Use Cases

Here are some potential use cases for the getNftsForOwnerIterator method:

- · NFT marketplace platforms
- : NFT marketplace platforms can use this method to retrieve a list of all NFTs owned by a user and display them on the
 user's profile page. This can help users keep track of their NFTs and make it easier to sell or trade their NFTs on the
 platform.
- · Asset management
- : Companies or individuals who own many NFTs can use this function to keep track of their assets on the blockchain. They can use this function to retrieve a list of all the NFTs they own and their corresponding metadata.
- · Gaming platforms
- : Gaming platforms that use NFTs as in-game assets can use this function to retrieve a list of all NFTs owned by a player's account. This can be useful for players to keep track of their in-game assets and also for game developers to design games around NFT ownership.

Related Methods

- getNftsForContractIterator
- : Fetches all NFTs for a given contract address and yields them in an async iterable.

Updated 5 months ago

summarizeNftAttributes - SDK getNftsForContractIterator - SDK Did this page help you?Yes No