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getNftsForContractIterator - SDK

Fetches all NFTs for a given contract address and yields them in an async iterable. This method returns the full NFTs in the contract and pages through all page keys until all NFTs have been fetched.

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_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 contract address and yields them in an async iterable.

This method returns the full NFTs in the contract 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
contractAddress	string	The contract address of the NFT contract.
options	object	The optional parameters to use for the request.

options

parameters

Property Type Description pageKey? string Optional page key from an existing OwnedBaseNftsResponse or OwnedNftsResponse to use for pagination. pageSize? number Sets the total number of NFTs to return in the response. It defaults to 100 . Maximum page size is 100 . omitMetadata? boolean Optional boolean flag to omit NFT metadata. Defaults to false . tokenUriTimeoutInMs 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 fetch any metadata for cache misses, then set this value to 0 .

Response

Property Type Description AsyncIterable object The NFTs for the contract

Nft

response 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:

1. cachedUrl: string : URL of the image stored in Alchemy's cache. 2. thumbnailUrl: string : URL of a thumbnail-sized image. 3. pngUrl: string : URL of the image in png format. 4. 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. 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.

BaseNft

response properties

Alchemy's representation of an NFT that doesn't contain metadata. The BaseNft object does not hold any metadata information and only contains the NFT contract and token ID. This is gotten by setting the options omitMetadata parameter to true .

Property Type Description contractAddress string The contract address of the NFT. tokenId string The NFT token ID as an integer string.

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 contract address whose NFTs you want to fetch const
contractAddress = "0xBC4CA0EdA7647A8aB7C2061c2E118A18a936f13D" ;// create an async generator function that uses
the getNftsForContractIterator method async function getNftsForContract () {try {let nfts = [];// Get the async iterable for the
contract's NFTs. const nftsIterable = alchemy .nft .getNftsForContractIterator (contractAddress );// 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 );}} // call the async generator function getNftsForContract ();

};main ();
```

Response

```
JSON [ {"contract" : {"address" : "0xe785E82358879F061BC3dcAC6f0444462D4b5330" , "name" : "World Of Women"
, "symbol" : "WOW" , "totalSupply" : "10000" , "tokenType" : "ERC721" , "contractDeployer"
: "0xc9b6321dc216D91E626E9BAA61b06B0E4d55bdb1" , "deployedBlockNumber" : 12907782 , "openSeaMetadata" :
{ "floorPrice" : 0.6021 , "collectionName" : "World of Women" , "collectionSlug" : "world-of-women-nft" , "safelistRequestStatus"
: "verified" , "imageUrl" : "https://i.seadn.io/gcs/files/8604de2d9aaec98dd389e3af1b1a14b6.gif?w=500&auto=format"
, "description" : "World of Women is a collection of 10,000 NFTs that gives you full access to our network of artists, creators,
entrepreneurs, and executives who are championing diversity and equal opportunity on the blockchain.\n\nCreated and
illustrated by Yam Karkai (@ykarkai), World of Women has made prominent appearances at Christie's, The New Yorker and
Billboard.\n\nJoin us to receive exclusive access to NFT drops, experiences, and much more.\n\nThe Time is WoW."
, "externalUrl" : "http://worldofwomen.art" , "twitterUsername" : "worldofwomennft" , "discordUrl"
: "https://discord.gg/worldofwomen" , "bannerImageUrl" : "https://i.seadn.io/gae/GHhptRLebBOWOy8kfXpYCVqsqdes-1-
6l_jbuRnGTHHW6TD63CtciH75Dotfu2u8v6EmkWt-tjhkFRVLxRUwgMfKqy5W24AolJaye0?w=500&auto=format"
, "lastIngestedAt" : "2023-09-18T12:28:27.000Z" }, "spamClassifications" : [] , "tokenId" : "44" , "tokenType" : "ERC721" , "name"
: "WoW #44" , "tokenUri"
: "https://alchemy.mypinata.cloud/ipfs/QmTNBQDbggLZdKF1fRgWnXsnRikd52zL5ciNu769g9JoUP/44" , "image" :
{ "cachedUrl" : "https://nft-cdn.alchemy.com/eth-mainnet/9316855d8f60a32cd44aa71f07cd7dc1" , "thumbnailUrl"
: "https://res.cloudinary.com/alchemyapi/image/upload/thumbnailv2/eth-mainnet/9316855d8f60a32cd44aa71f07cd7dc1"
, "pngUrl" : "https://res.cloudinary.com/alchemyapi/image/upload/convert-png/eth-
mainnet/9316855d8f60a32cd44aa71f07cd7dc1" , "contentType" : "image/png" , "size" : 105117 , "originalUrl"
: "https://ipfs.io/ipfs/QmUkdJKCsV8ixm2eDLJGosH8Bntwwx942YXxfuF9yXPBzi" }, "raw" : { "tokenUri"
: "ipfs://QmTNBQDbggLZdKF1fRgWnXsnRikd52zL5ciNu769g9JoUP/44" , "metadata" : { "name" : "WoW #44" , "image"
: "ipfs://QmUkdJKCsV8ixm2eDLJGosH8Bntwwx942YXxfuF9yXPBzi" , "attributes" : [ { "value" : "Green Orange" , "trait_type"
: "Background" }, { "value" : "Slight Smile" , "trait_type" : "Mouth" }, { "value" : "Purple" , "trait_type" : "Lips Color" } ] } } , "collection" :
{ "name" : "World of Women" , "slug" : "world-of-women-nft" , "externalUrl" : "http://worldofwomen.art" , "bannerImageUrl"
: "https://i.seadn.io/gae/GHhptRLebBOWOy8kfXpYCVqsqdes-1-6l_jbuRnGTHHW6TD63CtciH75Dotfu2u8v6EmkWt-
tjhkFRVLxRUwgMfKqy5W24AolJaye0?w=500&auto=format" , "mint" : { } , "timeLastUpdated" : "2023-09-18T13:25:41.833Z" }
]
```

Code Sandbox

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

Use Cases

Here are some potential use cases for the `getNftsForContractIterator` method:

- Marketplace platforms
- : Marketplace platforms that enable buying and selling of NFTs often require the ability to search for specific NFTs based on contract addresses. The `getNftsForContractIterator`
- method can be used to retrieve all NFTs associated with a given contract, allowing users to browse and search for NFTs from a particular collection.
- Wallet applications
- : Wallet applications that support NFTs may need to display all the NFTs owned by a user for a particular contract. The `getNftsForContractIterator`
- method can be used to retrieve all NFTs associated with a specific contract that is owned by a given address.
- NFT explorer tools
- : NFT explorer tools allow users to browse and search for NFTs on the blockchain. These tools often require the ability

- to query the blockchain for NFTs associated with a specific contract. The
- `getNftsForContractIterator`
- method can be used to retrieve all NFTs associated with a given contract, which can then be displayed and searched through an explorer tool.

Related Methods

- [getNftsForOwnerIterator](#)
- : Fetches all NFTs for a given owner and yields them in an async iterable.
- [getNftMetadata](#)
- : Get the NFT metadata associated with the provided parameters.

Updated 5 months ago

[getNftsForOwnerIterator - SDK](#) [getContractMetadata - SDK](#) Did this page help you? Yes No