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  - starknet_call post
  - starknet_getStorageAt post
  - starknet_chainId post
  - starknet_getTransactionByBlockIdAndIndex post
  - starknet_estimateFee post
  - starknet_getTransactionByHash post
  - starknet_getBlockTransactionCount post
  - starknet_getTransactionReceipt post
  - starknet_getBlockWithTxHashes post
  - starknet_pendingTransactions post
  - starknet_getBlockWithTxs post
  - starknet_syncing post
  - starknet_getClass post
  - starknet_estimateMessageFee post

getNftMetadataBatch - SDK

Gets the NFT metadata for multiple NFT tokens.

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 !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: #00000 !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

Gets the NFT metadata for multiple NFT tokens.

Parameters

Name Type Description tokens array An array of NFT tokens to fetch metadata for. options string Configuration options for making the request.

tokens

parameters

Parameter Type Description contractAddress string The NFT contract address. Limited to ERC721 and ERC1155 tokens. tokenId string The id of the NFT. tokenType? string Optional field to specify the type of token to speed up the query, e.g., ERC1155 , ERC721 .

options

parameters

Parameter Type Description 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 Promise object An object containing multiple nfts NFT metadata.

GetNftMetadataBatchResponse

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 NFT token ID as an integer string. 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.

Example Request and Response

Prerequisite : You will need to install the Alchemy SDK before making requests with it.

The commands for installing it usingnpm oryarn 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 ()=> {//Call the method let response = await alchemy .nft .getNftMetadataBatch ([{contractAddress :"0xBC4CA0EdA7647A8aB7C2061c2E118A18a936f13D" ,tokenId :"3" ,tokenType :"ERC721" }, {contractAddress :"0x8a90CAb2b38dba80c64b7734e58Ee1dB38B8992e" ,tokenId :"4" ,tokenType :"ERC721" }], {tokenUriTimeoutInMs :5000 ,refreshCache :true })//Logging the response to the console console .log (response) };main ();

Response

JSON {"nfts" : [{"contract" : {"address" :"0xBC4CA0EdA7647A8aB7C2061c2E118A18a936f13D" ,"name" :"BoredApeYachtClub" ,"symbol" :"BAYC" ,"totalSupply" :"10000" ,"tokenType" :"ERC721" ,"contractDeployer" :"0xaBA7161A7fb69c88e16ED9f455CE62B791EE4D03" ,"deployedBlockNumber" :12287507 ,"openSeaMetadata" : {"floorPrice" :24.76 ,"collectionName" :"Bored Ape Yacht Club" ,"collectionSlug" :"boredapeyachtclub" ,"safelistRequestStatus" :"verified" ,"imageUrl" :"https://i.seadn.io/gae/Ju9CkWtV-1Okvf45wo8UctR-M9He2PjILP0oOvxE89AyiPPGtrR3gysu1Zgy0hjd2xKIgjJJtWIc0ybj4Vd7wv8t3pxDGHoJBzDB?w=500&auto=format" ,"description" :"The Bored Ape Yacht Club is a collection of 10,000 unique Bored Ape NFTs— unique digital collectibles living on the Ethereum blockchain. Your Bored Ape doubles as your Yacht Club membership card, and grants access to members-only benefits, the first of which is access to THE BATHROOM, a collaborative graffiti board. Future areas and perks can be unlocked by the community through roadmap activation. Visit www.BoredApeYachtClub.com for more details." ,"externalUrl" :"http://www.boredapeyachtclub.com/" ,"twitterUsername" :"BoredApeYC" ,"discordUrl" :"https://discord.gg/3P5K3dzgdB" ,"bannerImageUrl" :"https://i.seadn.io/gae/i5dYZRkVCUK97bfprQ3WXyrT9BnLSZtVKGJlKQ919uaUB0sxbngVCioaiyu9r6snqfi2aaTyIvv6DHm4m2R3y7hMajbsv14pSZK8mhs?w=500&auto=format" ,"lastIngestedAt" :"2023-09-18T09:58:23.000Z" },"spamClassifications" : [] },"tokenId" :"3" ,"tokenType" :"ERC721" ,"tokenUri" :"https://ipfs.io/ipfs/QmeSjSinHpPnmXmspMjwiXyN6zS4E9zccariGR3jxcaWtq/3" ,"image" : {"cachedUrl" :"https://nft-cdn.alchemy.com/eth-mainnet/e93ceab748985031d68b8ac5a3e38ed1" ,"thumbnailUrl" :"https://res.cloudinary.com/alchemyapi/image/upload/thumbnailv2/eth-mainnet/e93ceab748985031d68b8ac5a3e38ed1" ,"pngUrl" :"https://res.cloudinary.com/alchemyapi/image/upload/convert-png/eth-mainnet/e93ceab748985031d68b8ac5a3e38ed1" ,"contentType" :"image/png" ,"size" :208822 ,"originalUrl" :"https://ipfs.io/ipfs/QmYxT4LnK8sqLupjbS6eRvu1si7Ly2wFQAqFebxhWntcf6" },"raw" : {"tokenUri" :"ipfs://QmeSjSinHpPnmXmspMjwiXyN6zS4E9zccariGR3jxcaWtq/3" ,"metadata" : {"image" :"ipfs://QmYxT4LnK8sqLupjbS6eRvu1si7Ly2wFQAqFebxhWntcf6" ,"attributes" : [{"trait_type" :"Background" ,"value" :"Purple" }, {"trait_type" :"Fur" ,"value" :"Cheetah" }] } },"collection" : {"name" :"Bored Ape Yacht Club" ,"slug" :"boredapeyachtclub" ,"externalUrl" :"http://www.boredapeyachtclub.com/" ,"bannerImageUrl" :"https://i.seadn.io/gae/i5dYZRkVCUK97bfprQ3WXyrT9BnLSZtVKGJlKQ919uaUB0sxbngVCioaiyu9r6snqfi2aaTyIvv6DHm4m2R3y7hMajbsv14pSZK8mhs?w=500&auto=format" },"mint" : {},"timeLastUpdated" :"2023-09-18T18:14:22.829Z" }, {"contract" : {"address" :"0x8a90CAb2b38dba80c64b7734e58Ee1dB38B8992e" ,"name" :"Doodles" ,"symbol" :"DOODLE" ,"totalSupply" :"10000" ,"tokenType" :"ERC721" ,"contractDeployer" :"0x2B3Ab8e7BB14988616359B78709538b10900AB7D" ,"deployedBlockNumber" :13430097 ,"openSeaMetadata" : {"floorPrice" :1.55 ,"collectionName" :"Doodles" ,"collectionSlug" :"doodles-official" ,"safelistRequestStatus" :"verified" ,"imageUrl" :"https://i.seadn.io/gae/7B0qai02OdHA8P_EOVK672qUliyjQdQDGNrACxs7WnTgZAkJa_wWURnIFKeOh5VTf8cfTqW3wQpozGedaC9mteKphEOtztls02RlWQ?w=500&auto=format" ,"description" :"A community-driven collectibles project featuring art by Burnt Toast. Doodles come in a joyful range of colors, traits and sizes with a collection size of 10,000. Each Doodle allows its owner to vote for experiences and activations paid for by the Doodles Community Treasury." ,"externalUrl" :"https://doodles.app" ,"twitterUsername" :"doodles" ,"discordUrl" :"https://discord.gg/doodles" ,"bannerImageUrl" :"https://i.seadn.io/gae/svc_rQkHVGf3aMI14v3pN-ZTI7uDRwN-QayvixX-nHSMZBgb1L1LReSg1-rXj4gNLJgAB0-yD8ERoT-Q2Gu4cy5AuSg-RdHF9bOxFDw?w=500&auto=format" ,"lastIngestedAt" :"2023-09-10T05:19:20.000Z" },"spamClassifications" : [] },"tokenId" :"4" ,"tokenType" :"ERC721" ,"name" :"Doodle #4" ,"description" :"A community-driven collectibles project featuring art by Burnt Toast. Doodles come in a joyful range of colors, traits and sizes with a collection size of 10,000. Each Doodle allows its owner to vote for experiences and activations paid for by the Doodles Community Treasury. Burnt Toast is the working alias for Scott Martin, a Canadian–based illustrator, designer, animator and muralist." ,"tokenUri"

:"https://ipfs.io/ipfs/QmPMc4tcBsMqLRuCQtPmPe84bpSjrC3Ky7t3JWuHXYB4aS/4" ,"image" : {"cachedUrl" :"https://nft-cdn.alchemy.com/eth-mainnet/f1fa2cc9dd6ddfc0449c5c30fb30fca4" ,"thumbnailUrl" :"https://res.cloudinary.com/alchemyapi/image/upload/thumbnailv2/eth-mainnet/f1fa2cc9dd6ddfc0449c5c30fb30fca4" ,"pngUrl" :"https://res.cloudinary.com/alchemyapi/image/upload/convert-png/eth-mainnet/f1fa2cc9dd6ddfc0449c5c30fb30fca4" ,"contentType" :"image/png" ,"size" :129566 ,"originalUrl" :"https://ipfs.io/ipfs/QmcyuFVLbfBmSeQ9ynu4dk67r97nB1abEekotuVuRGWedm" },"raw" : {"tokenUri" :"ipfs://QmPMc4tcBsMqLRuCQtPmPe84bpSjrC3Ky7t3JWuHXYB4aS/4" ,"metadata" : {"name" :"Doodle #4" ,"image" :"ipfs://QmcyuFVLbfBmSeQ9ynu4dk67r97nB1abEekotuVuRGWedm" ,"description" :"A community-driven collectibles project featuring art by Burnt Toast. Doodles come in a joyful range of colors, traits and sizes with a collection size of 10,000. Each Doodle allows its owner to vote for experiences and activations paid for by the Doodles Community Treasury. Burnt Toast is the working alias for Scott Martin, a Canadian–based illustrator, designer, animator and muralist." ,"attributes" : [{"value" :"happy" ,"trait_type" :"face" }, {"value" :"purple long" ,"trait_type" :"hair" }, {"value" :"spotted hoodie" ,"trait_type" :"body" }, {"value" :"gradient 2" ,"trait_type" :"background" }, {"value" :"purple" ,"trait_type" :"head" }] } },"collection" : {"name" :"Doodles" ,"slug" :"doodles-official" ,"externalUrl" :"https://doodles.app" ,"bannerImageUrl" :"https://i.seadn.io/gae/svc_rQkHVGf3aMI14v3pN-ZTI7uDRwN-QayvixX-nHSMZBgb1L1LReSg1-rXj4gNLJgAB0-yD8ERoT-Q2Gu4cy5AuSg-RdHF9bOxFDw?w=500&auto=format" },"mint" : {},"timeLastUpdated" :"2023-09-18T08:18:52.566Z" }] }

Code Sandbox

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

Use Cases

Here are some use cases for the getNftMetadataBatch function:

- NFT Marketplaces
- : An NFT marketplace is a platform where users can buy and sell NFTs. In such platforms, the
- getNftMetadataBatch
- function can be used to retrieve metadata for multiple NFTs in a single API call. This can improve the platform's performance and user experience, as users can quickly view information about multiple NFTs simultaneously.
- NFT Galleries
- : NFT galleries are websites or apps that showcase a collection of NFTs. With
- getNftMetadataBatch
- , gallery owners can easily retrieve and display metadata for multiple NFTs, making it easier for visitors to browse and explore the collection.
- NFT Wallets
- : NFT wallets are digital wallets that allow users to store, manage, and trade their NFTs. When users want to view their NFTs, the
- getNftMetadataBatch
- function can be used to retrieve metadata for all NFTs in the wallet, providing a quick overview of the user's collection.

Related Methods

Here are the methods related to getNftMetadataBatch :

- getNftMetadata
- : Get the NFT metadata associated with the provided parameters.

Updated 5 months ago

getNftMetadata -SDK refreshNftMetadata - SDK Did this page help you?Yes No