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getTransfersForOwner - SDK

The getTransfersForOwner method gets all NFT transfers for a given owner address.

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

getTransfersForOwner gets all NFT transfers for a given owner's address.

Parameters

Name Type Description Example owner string The owner address to get transfers for. "0xe5cB067E90D5Cd1F8052B83562Ae670bA4A211a8" category? string Whether to get transfers TO or FROM the owner address. TO , FROM options Object An optional object with the following properties:

1. contractAddresses : An array of NFT contract addresses to filter mints by. If omitted, defaults to all contract addresses.
2. tokenType : Filter mints by ERC721 vs ERC1155 contracts. If omitted, defaults to all NFTs.
3. pageKey : Optional page key from an existing response to use for pagination. { contractAddresses: ["0x1F02bF9dDe7C79137a08B2Dd4FC964BfD2499734"], tokenType: "ERC721" }

Response

The `getTransfersForOwner` method returns a Promise object that contains the NFT transfers for the given owner address.

The returned object has the following fields:

Property Type Description
`nfts` array of objects An array of the transfer objects. Each transfer object contains information about the transferred NFT.
`pageKey?` string Optional page key to use to fetch the next group of NFTs. undefined if all the transfers are already included in the response.

nfts

properties

Each `nfts` transfer object has the following fields:

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.
`from` string The address the NFT was sent from. For minted NFTs, this field is set to `0x00`.
`to` string The address the NFT was sent or minted to.
`transactionHash` string The transaction hash where the transfer or mint occurred.
`blockNumber` string The block number as a hex string of when the transfer or mint occurred.

Example Request and Response

Prerequisite : You must 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

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

```
getTransfersForOwner.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 );// Example of using the new getTransfersForOwner method const main = async ()=> {// The owner
address to get transfers for let address = "0xe5cB067E90D5Cd1F8052B83562Ae670bA4A211a8" ;// Whether to get
transfers TO or FROM the owner address. (Optional) let category = "FROM" ;// Additional options for the request. (Optional)
let options = { * List of NFT contract addresses to filter mints by. If omitted, defaults to * all contract addresses. */
contractAddresses : ["0x1F02bF9dDe7C79137a08B2Dd4FC964BfD2499734" ],/ * Filter mints by ERC721 vs ERC1155
contracts. If omitted, defaults to all * NFTs. */ tokenType : "ERC721" , };// Calling the getTransfersForOwner method let
transfers = await alchemy .nft .getTransfersForOwner (address ,category ,options );// Logging the response to the console
console .log (transfers ); };main ();

```

Response

And here is an example of what a successful response to this request might look like:

```

getTransfersForOwner response {"nfts" : [ {"contract" : {"address" : "0x1F02bF9dDe7C79137a08B2Dd4FC964BfD2499734"
,"name" : "Elephants" ,"symbol" : "ELENFT" ,"totalSupply" : "7778" ,"tokenType" : "ERC721" ,"contractDeployer"
:"0xe5cB067E90D5Cd1F8052B83562Ae670bA4A211a8" ,"deployedBlockNumber" : 15140845 ,"openSeaMetadata" :
{"floorPrice" : 0.0032 ,"collectionName" : "3L3Phants Official" ,"collectionSlug" : "3l3phants-official" ,"safelistRequestStatus"
:"verified" ,"imageUrl" : "https://i.seadn.io/gcs/files/71dfb6cacb894a713d91f493917fa1b5.png?w=500&auto=format"
,"description" : "3L3Phants NFT is a collection of 7,777 Elephants stampeding on the Ethereum blockchain. From the mind of
lc3cream and designed by World Renowned Artist Tornado Toad. Join the Herd today!\n\nEarn NUT token in our discord
now!\n\nhttps://discord.gg/3l3phantsnft" ,"externalUrl" : "http://3l3phants.io" ,"twitterUsername" : "3L3NFT" ,"discordUrl"
:"https://discord.gg/3l3phantsnft" ,"bannerImageUrl"
:"https://i.seadn.io/gcs/files/1667bbb67e548917820271ee2430bb35.png?w=500&auto=format" ,"lastIngestedAt" : "2023-09-
19T22:06:03.000Z" }, {"spamClassifications" : [] }, {"tokenId" : "890" ,"tokenType" : "ERC721" ,"name" : "3L3PHANTS #890"
,"description" : "3L3Phants NFT is a collection of 7,777 Elephants stampeding on the Ethereum blockchain. Saving
3L3Phants & Wildlife one NFT at a time" ,"tokenUri"
:"https://ipfs.io/ipfs/QmcpMnvcMuvn3EsQ6QmV1J7QwouBKimrhbHpEV5Db9gFgy/890" ,"image" : {"cachedUrl" : "https://nft-
cdn.alchemy.com/eth-mainnet/121fdb0563b1917179c9ad7d97ae081f" ,"thumbnailUrl"
:"https://res.cloudinary.com/alchemyapi/image/upload/thumbnailv2/eth-mainnet/121fdb0563b1917179c9ad7d97ae081f"
,"pngUrl" : "https://res.cloudinary.com/alchemyapi/image/upload/convert-png/eth-
mainnet/121fdb0563b1917179c9ad7d97ae081f" ,"contentType" : "image/png" ,"size" : 199542 ,"originalUrl"
:"https://ipfs.io/ipfs/QmTvmGSL6cFxFyRyoam2vBRgVL8vjclRzdum14K9qMQ7MP2b" }, {"raw" : {"tokenUri"
:"ipfs://QmcpMnvcMuvn3EsQ6QmV1J7QwouBKimrhbHpEV5Db9gFgy/890" ,"metadata" : {"name" : "3L3PHANTS #890"
,"description" : "3L3Phants NFT is a collection of 7,777 Elephants stampeding on the Ethereum blockchain. Saving
3L3Phants & Wildlife one NFT at a time" ,"image" : "ipfs://QmTvmGSL6cFxFyRyoam2vBRgVL8vjclRzdum14K9qMQ7MP2b"
,"attributes" : [ {"value" : "Red" ,"trait_type" : "Background" }, {"value" : "Double" ,"trait_type" : "Tusks" } ] } } } ,"collection" :
{"name" : "3L3Phants Official" ,"slug" : "3l3phants-official" ,"externalUrl" : "http://3l3phants.io" ,"bannerImageUrl"
:"https://i.seadn.io/gcs/files/1667bbb67e548917820271ee2430bb35.png?w=500&auto=format" }, {"mint" : {"mintAddress"
:"0xe5cb067e90d5cd1f8052b83562ae670ba4a211a8" ,"blockNumber" : 15143441 ,"timestamp" : "2022-07-14T22:17:44Z"
,"transactionHash" : "0x317dfdacec0ae4cbe0a1f7ee394f9cc7c6d4ae9985a5202fcfe28b3a19ce899" }, {"timeLastUpdated"
:"2023-08-13T03:40:39.232Z" ,"from" : "0xe5cb067e90d5cd1f8052b83562ae670ba4a211a8" ,"to"
:"0x84561625814e1c7e882c1ae20a9d722a8c301f04" ,"transactionHash"
:"0x43ff4418ca88d94857f3b687e8ac7450e107c2a36517e8d59a5308dba4acec94" ,"blockNumber" : "0xec8125" } } } {"contract"
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,"deployedBlockNumber" : 15140845 ,"openSeaMetadata" : {"floorPrice" : 0.0032 ,"collectionName" : "3L3Phants Official"
,"collectionSlug" : "3l3phants-official" ,"safelistRequestStatus" : "verified" ,"imageUrl"
:"https://i.seadn.io/gcs/files/71dfb6cacb894a713d91f493917fa1b5.png?w=500&auto=format" ,"description" : "3L3Phants NFT
is a collection of 7,777 Elephants stampeding on the Ethereum blockchain. From the mind of lc3cream and designed by
World Renowned Artist Tornado Toad. Join the Herd today!\n\nEarn NUT token in our discord
now!\n\nhttps://discord.gg/3l3phantsnft" ,"externalUrl" : "http://3l3phants.io" ,"twitterUsername" : "3L3NFT" ,"discordUrl"
:"https://discord.gg/3l3phantsnft" ,"bannerImageUrl"
:"https://i.seadn.io/gcs/files/1667bbb67e548917820271ee2430bb35.png?w=500&auto=format" ,"lastIngestedAt" : "2023-09-
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,"description" : "3L3Phants NFT is a collection of 7,777 Elephants stampeding on the Ethereum blockchain. Saving
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,"pngUrl" : "https://res.cloudinary.com/alchemyapi/image/upload/convert-png/eth-
mainnet/8e8706cbd7f6f2b46576dd386410b805" ,"contentType" : "image/png" ,"size" : 198447 ,"originalUrl"
:"https://ipfs.io/ipfs/QmaL3UbrR8T1tz7j8SuYmQxkQJoPXYZeU49YC5DCHphKDg" }, {"raw" : {"tokenUri"
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,"description" : "3L3Phants NFT is a collection of 7,777 Elephants stampeding on the Ethereum blockchain. Saving
3L3Phants & Wildlife one NFT at a time" ,"image" : "ipfs://QmaL3UbrR8T1tz7j8SuYmQxkQJoPXYZeU49YC5DCHphKDg"
,"attributes" : [ {"value" : "Pink Checkerboard" ,"trait_type" : "Background" }, {"value" : "Nubs" ,"trait_type" : "Tusks" } ] } } }

```

```
}, "collection" : { "name" : "3L3Phants Official", "slug" : "3l3phants-official", "externalUrl" : "http://3l3phants.io", "bannerImageUrl" : "https://i.seadn.io/gcs/files/1667bbb67e548917820271ee2430bb35.png?w=500&auto=format" }, "mint" : { "mintAddress" : "0xe5cb067e90d5cd1f8052b83562ae670ba4a211a8", "blockNumber" : 15214264, "timestamp" : "2022-07-25T22:02:43Z", "transactionHash" : "0x343e4697e0e834acb61c23268a63dddb29e29ce6bc6af652b08430f7c0fdc934" }, "timeLastUpdated" : "2023-02-28T17:51:29.181Z", "from" : "0xe5cb067e90d5cd1f8052b83562ae670ba4a211a8", "to" : "0x6a3623db71c1b3442a94e3fd4655334b48114693", "transactionHash" : "0x13f33287ac95893e06cda2cd30c08003808ac46867382d8c92e1c864e4895ec6", "blockNumber" : "0xec8131" } ] }
```

Code Sandbox

You can test the `getTransfersForOwner` method using the code sandbox below:

Use Cases

Some of the use cases for `getTransfersForOwner` are:

- NFT Marketplace
 - : An NFT marketplace could use the API to retrieve all the NFT transfers for a particular owner and display them on their website for the owner to see their NFT collection and transaction history.
- NFT Portfolio Tracking
 - : An individual or a company could use the API to track all the NFT transfers to and from their address and keep a record of their NFT portfolio.
- NFT Analytics
 - : An NFT analytics platform could use the API to gather data on NFT transfers and analyze the NFT market trends and patterns.

Related Methods

Here are the methods related to `getTransfersForOwner` :

- [getMintedNfts](#)
 - : Returns all the NFTs minted by a specified owner address.
- [getTransfersForContract](#)
 - : Returns all NFT transfers for a given NFT contract address.

Updated 5 months ago

[getNftsForContract - SDK](#) [getTransfersForContract - SDK](#) Did this page help you? [Yes](#) [No](#)