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simulateAssetChangesBundle - SDK

Simulates the asset changes resulting from a list of transactions simulated in sequence. Returns a list of asset changes for each transaction during simulation.

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

Simulates the asset changes resulting from a list of transactions simulated in sequence.

Returns a list of asset changes for each transaction during simulation.

Parameters

Name Type Description transactions array Transactions list of max 3 transactions to simulate. blockIdentifier? string Optional block identifier to simulate the transaction in.

transactions

array object parameters

Property Type Description data? string The data associated with the transaction. from? string The address the transaction is sent from. gas? string The gas provided for the transaction execution, as a hex string. gasPrice? string The gas price to use

as a hex string. to string The address the transaction is directed to. value string The value associated with the transaction as a hex string.

Response

Property Type Description Promise array of object Returns the transactions response.

SimulateAssetChangesResponse

object parameters

Property Type Description changes array An array of asset changes that resulted from the transaction. error? object Optional error field that is present if an error occurred. The available parameter in this error response is:

message: string The error message. gasUsed? string The amount of gas used by the transaction represented as a hex string. The field is undefined if an error occurred.

changes

array property parameters

Property Type Description amount? string The amount as an integer string. This value is calculated by applying the decimals field to the rawAmount field. Only available on TRANSFER changes for NATIVE and ERC20 assets, or ERC721/ERC1155 disapprove changes (field set to '0'). assetType string The type of asset from the transaction. changeType string The type of change from the transaction. contractAddress? string The contract address of the asset. Only applicable to ERC20, ERC721, ERC1155, NFT and SPECIAL_NFT transactions. decimals? number The number of decimals used by the ERC20 token. Set to 0 for APPROVE changes. Field is undefined if it's not defined in the contract and not available from other sources. from string The from address. logo? string URL for the logo of the asset, if available. Only applicable to ERC20 transactions. name? string The name of the asset transferred, if available. rawAmount string The raw amount as an integer string. Only available on TRANSFER changes for NATIVE and ERC20 assets, or ERC721/ERC1155 disapprove changes (field set to '0'). symbol? string The symbol of the asset transferred if available. to string The to address. tokenId string The token id of the asset transferred. Only applicable to ERC721, ERC1155 and SPECIAL_NFT NFTs.

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 yarn add alchemy-sdk

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 transaction hash const trnxs = [{tr1 :"0x88df016429689c079f3b2f6ad39fa052532c56795b733da78a91ebe6a713944b" ,tr2 :"0xf02c1c8e6114b1dbe8937a39260b5b0a374432bbrrewn67353841eer3432cb45" }]//Call the method to display the transaction based on the transaction hash const response = await alchemy .transact .simulateAssetChangesBundle (trnxs)//Logging the response to the console console .log (response) }main ();

Response

Shell [{ changes: [], gasUsed:'0xcf08', error: undefined }]

Code Sandbox

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

Use Cases

Here are some potential use cases for the simulateAssetChangesBundle method:

- Testing
- : Developers can use
- simulateAssetChangesBundle
- to test their smart contracts before deploying them to a blockchain network. By simulating the changes that would occur, developers can identify potential errors and debug their code.
- · Optimizing asset transactions
- : Businesses that regularly perform asset transactions, such as banks or trading firms, can use
- simulateAssetChangesBundle
- to optimize their transaction strategies. By simulating different transactions scenarios, these firms can identify the most efficient ways to move assets between accounts.

Related Methods

Here are the methods related to simulateAssestChanges:

- simulateAssetChangesBundle
- : Simulates the asset changes resulting from a single transaction.

Updated 5 months ago

getMaxPriorityFeePerGas - SDK estimateGas - SDK Did this page help you?Yes No