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Transaction Simulation FAQs

Find answers to frequently asked questions related to Alchemy's Transaction Simulation APIs

What chains do you support?

Chain Network Ethereum Mainnet & Ethereum Goerli & Ethereum Sepolia & Polygon Mainnet & Polygon Mumbai & Arbitrum Mainnet & Arbitrum Goerli & Optimism Mainnet & Optimism Goerli &

Wrapped tokens

Network Name Contract Address Eth Mainnet WETH 0xc02aaa39b223fe8d0a0e5c4f27ead9083c756cc2 Eth Goerli WETH 0xb4fbf271143f4fbf7b91a5ded31805e42b2208d6 Polygon Mainnet WMATIC 0x0d500b1d8e8ef31e21c99d1db9a6444d3adf1270 Polygon Mumbai WMATIC 0x9c3c9283d3e44854697cd22d3faa240cfb032889 Arbitrum Mainnet WETH 0x82af49447d8a07e3bd95bd0d56f35241523fbab1 Arbitrum Goerli WETH 0x1dfc378641f06f4095e9434017bf335018550c55

Do you support NFTs that predate ERC721?

Yes.

We recently added support for the following NFTs that predate the ERC721 standard:

- CryptoKitties
- Cryptopunks

assetType will be set to SPECIAL NFT for these collections.

This is consistent with our Transfers API.

Network Name Contract Address Eth Mainnet CryptoKitties 0x06012c8cf97bead5deae237070f9587f8e7a266d Eth Mainnet CryptoPunks 0xb47e3cd837ddf8e4c57f05d70ab865de6e193bbb

How can I get metadata for NFTs (ERC721, ERC155)?

You can use the collection address (contractAddress) and token id (tokenId) returned in the response to call our getNFTMetadata endpoint - seehere.

How can I determine if a simulation was successful?

You can check if the top level error field is null.

How can I get gas used?

alchemy_simulateAssetChanges

You can access the top level gasUsed field.

alchemy_simulateExecution

The API can return a flat or a nested response depending on the 3rd parameter passed in the request (defaults to flat response).

Flat response - gasUsed in first call.

Nested response - gasUsed in root call of nested response.

Simulation Limits and Pricing

- Free tier users have access to up to 1000 simulations per day.
- Growth tier users have access to up to 50,000 simulations per day.
- Enterprise tier users can perform unlimited simulations.

Please note that bundle simulation is only available on the Growth and Enterprise tiers.

Updated 5 months ago

Transaction Simulation Examples Transaction Simulation Endpoints Did this page help you?Yes No