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# **Transaction Simulation Examples**

Explore practical examples to help you get started with Alchemy's Simulation APIs.

You'll find some examples to get you started below!

You can also try out the APIs yourself using our API playgrounds directly:

- alchemy simulateAssetChanges
- alchemy\_simulateAssetChangesBundle
- alchemy\_simulateExecution
- alchemy\_simulateExecutionBundle

# Chain support

The examples below are for Eth Mainnet and Polygon Mainnet. Simulation also works on Arbitrum and testnets - more examples coming soon!

## Ethereum

# ETH - Transfer

0xbe0eb53f46cd790cd13851d5eff43d12404d33e8 sending 1 ETH to 0xc02aaa39b223fe8d050e5c4f27ead9083c756cc2 .

To send a normal transfer, remove the data field from the transaction object in the request. We will add support for data: " " and data: "0x" soon.

#### **ERC20 - Transfer**

vitalik.eth ( 0xf976d0d0464725157933d94E14Abe548aB5709B6 ) sending 1 USDC to demo.eth ( 0xA0b86991c6218b36c1d19D4a2e9Eb0cE3606eB48 ).

Transaction cURL Response {"from" :"0xf976d0d0464725157933d94E14Abe548aB5709B6" ,"to" :"0xA0b86991c6218b36c1d19D4a2e9Eb0cE3606eB48" ,"value" :"0x0" ."data"

#### WETH - Wrap

0xBE0eB53F46cd790Cd13851d5EFf43D12404d33E8 depositing 1 ETH and getting 1 WETH back.

Transaction cURL Response {"from" :"0xBE0eB53F46cd790Cd13851d5EFf43D12404d33E8" ,"to" :"0xc02aaa39b223fe8d0a0e5c4f27ead9083c756cc2" ,"data" :"0xd0e30db0" ,"value" :"0xDE0B6B3A7640000" } curl --location --request POST'https://eth-mainnet.g.alchemy.com/v2/YOUR\_KEY' --header 'Content-Type: application/json' --data-raw '{ "jsonrpc": "2.0", "method": "alchemy\_simulateAssetChanges", "id": 1, "params": [ { "from":

#### **WETH - Unwrap**

0x2e95E1cD077f29733C65D885Ce7AFE278d0726A6 withdrawing 1 ETH (1 WETH sent, 1 ETH returned).

# **Polygon**

#### **MATIC** - Transfer

0xe7804c37c13166ff0b37f5ae0bb07a3aebb6e245 sending 5 MATIC to 0x0d500b1d8e8ef31e21c99e1db9a6444d3adf1270 .

To send a normal transfer, remove the data field from the transaction object in the request. We will add support for data: " " and data: "0x" soon.

#### **ERC20 - Transfer**

 $0xf977814e90da44bfa03b6295a0616a897441acec\ sending\ 1\ USDC\ to\ 0x2791Bca1f2de4661ED88A30C99A7a9449Aa84174\ .$ 

Transaction cURL Response {"from" :"0xF977814e90dA44bFA03b6295A0616a897441aceC" ,"to" :"0x2791Bca1f2de4661ED88A30C99A7a9449Aa84174" ,"value" :"0x0" "data"

#### **WMATIC** - Wrap

0xe7804c37c13166fF0b37F5aE0BB07A3aEbb6e245 depositing 5 MATIC and getting 5 WMATIC back.

## **WMATIC - Unwrap**

0xccc52f64ee0fff73ad7312825ee767ce94d4877a withdrawing 1 MATIC (1 WMATIC sent, 1 MATIC returned).

Updated 5 months ago

Bundle Simulation Transaction Simulation FAQs Did this page help you?Yes No