Introduction

- Alchemy API Reference Overview
 - Chain APIs Overview
- - Enhanced APIs Overview
- Alchemy Quickstart Guide

Resources

- FAQ
- •
- Feature Support By Chain
- Throughput
- Batch Requests
- Gas Limits
- Error Reference
- Compute Units
- •
- Pricing Plans
- Compute Unit Costs

NFT API

- NFT API Quickstart
- NFT API Endpoints Overview
- NFT API FAQ
- Ownership & Token Gating
 - getNFTsForOwner get
- getOwnersForNFT get
- getOwnersForContract get
- isHolderOfContract get
- getContractsForOwner get
- getCollectionsForOwner get
- NFT Metadata Access
 - getNFTMetadata get
 - getNFTMetadataBatch post
- getContractMetadata get
- gotoomraotwotadata got
- getCollectionMetadata get
- invalidateContract get
- getContractMetadataBatch post
- getNFTsForContract get
- getNFTsForCollection get
- searchContractMetadata get
- refreshNftMetadata post
- Spam Detection
- getSpamContracts get
 - isSpamContract get
- isAirdropNFT get
- · ISAIIGIOPINI I ge
- reportSpam get
- Rarity Data

• summarizeNFTAttributes get · computeRarity get Sales & Marketplace Data • getFloorPrice get • getNFTSales get • NFT API V2 to V3 Migration Guide • NFT API V2 vs. V3 Endpoint Differences NFT API V2 Methods (Older Version) • getNFTs get • getNFTMetadata get getNFTMetadataBatch post • getContractMetadata get • getContractMetadataBatch post • getNFTsForCollection get • getOwnersForToken get getOwnersForCollection get getSpamContracts get • isSpamContract get isAirdrop get • invalidateContract get • getFloorPrice get computeRarity get • searchContractMetadata get • summarizeNFTAttributes get • isHolderOfCollection get • getNFTSales get • getContractsForOwner get

Transfers API (Tx History)

Transfers API Quickstart

• reportSpam get

- Transfers API Endpoints
 - alchemy_getAssetTransfers post

Transaction Receipts API

- Transaction Receipts Endpoints
 - alchemy_getTransactionReceipts post

Token API

- Token API Quickstart
- Token API Endpoints
 - alchemy_getTokenBalances post
 - alchemy_getTokenMetadata post
 - alchemy_getTokenAllowance post

Subgraphs

- Subgraphs Quickstart
- Supported Subgraph Chains
- Developing a Subgraph
- - Graph CLI
 - Creating a Subgraph
 - Project Structure

 - Data Sources
 - Writing Mappings
- Moving your Subgraph to Production
 - Deploying a Subgraph
 - Subgraph Versioning
 - Querying a Subgraph
 - Deleting a Subgraph
 - Direct Database Access
- Community subgraphs

Webhooks

- Notify API Quickstart
 - Notify Tutorials and Applications
 - Notify API FAQ
- Custom Webhooks Quickstart
 - Custom Webhooks FAQ
 - Custom Webhooks GraphQL Examples
 - Custom Webhook Filters
 - Custom Webhook Variables
- Custom Webhook API Methods
 - Read Variable Elements get
- Create a Variable post
 - Delete a Variable delete
 - Update a Variable patch
- Notify API Methods
 - Get all webhooks get
 - Get all addresses for an Address Activity webhook get
 - Create webhook post
 - Add and remove webhook addresses patch
 - Replace webhook addresses put
 - Update webhook status put
 - Update webhook NFT filters patch
- Update NFT metadata webhook filters patch
- Get all webhook NFT filters get
- Delete webhook delete
- Webhook Types
- Custom Webhook

- Address Activity Webhook
- Mined Transaction Webhook
- Dropped Transaction Webhook
- NFT Activity Webhook
- NFT Metadata Updates Webhook

Websockets

- Subscription API Quickstart
- Best Practices for Using WebSockets in Web3
- Subscription API Endpoints
- alchemy minedTransactions
 - alchemy pendingTransactions
 - newPendingTransactions
 - •
 - newHeads
- logs

Trace API

- Trace API Quickstart
- Trace API Endpoints
 - trace_block post
 - trace_call post
 - trace_get post
 - trace_rawTransaction post
 - trace_replayBlockTransactions post
 - trace_replayTransaction post
 - trace transaction post

 - trace_filter post
- Trace API Resources
 - What are EVM Traces?
- Trace API vs. Debug API
- What is trace_transaction?
- What is trace_block?
- What is trace filter?
 - trace_call vs debug_traceCall

Debug API

- Debug API Quickstart
- Debug API Endpoints
- debug_traceCall post
 - debug_traceTransaction post
 - debug_traceBlockByNumber post
 - debug traceBlockByHash post

ACCOUNT ABSTRACTION

- Bundler API Quickstart
- Bundler API Endpoints

- eth_getUserOperationReceipt post
 eth_supportedEntryPoints post
 eth_getUserOperationByHash post
 eth_sendUserOperation post
 rundler_maxPriorityFeePerGas post
 eth_estimateUserOperationGas post
 Bundler API Fee Logic
 Factory Addresses
 Gas Manager Coverage API Quickstart
 Gas Manager Coverage API Endpoints
 - alchemy_requestPaymasterAndData post
 - alchemy_requestGasAndPaymasterAndData post
- Gas Manager Coverage API Fee Logic
- Gas Manager Deployment Addresses
- UserOperation Simulation Endpoints
 - alchemy_simulateUserOperationAssetChanges post
- AA-SDK
- Account Abstraction FAQ

Embedded Accounts

- Accounts API Endpoints
- Create Account post
- Send Auth Email post
- o dena Autii Emaii post
- Authenticate User post
- Get User post
- Sign Message post
 - Register New Authenticator post

Gas Manager Admin API

- Gas Manager Admin API Quickstart
- Gas Manager Admin API Endpoints
 - Create Policy post
 - Get Policy get
 - Delete Policy delete
 - Replace Policy put
 - Get All Policies get
 - Update Policy Status put
 - Get Policy Stats get
 - Get Sponsorships get

Alchemy Transact

- Transact Quickstart
- Reinforced Transactions
- Transaction Simulation
- Asset Changes
- Moset Onlinges
 - Execution Simulation
- Bundle Simulation

 Transaction Simulation Examples Transaction Simulation FAQs • Transaction Simulation Endpoints • alchemy_simulateAssetChanges post • alchemy_simulateAssetChangesBundle post alchemy_simulateExecution post • alchemy_simulateExecutionBundle post **Gas Optimized Transactions** • alchemy_getGasOptimizedTransactionStatus post • alchemy_sendGasOptimizedTransaction post • Private Transactions eth_cancelPrivateTransaction post • eth_sendPrivateTransaction post **Alchemy SDK** Alchemy SDK Quickstart · How to use Alchemy SDK with Typescript Examples Using the Alchemy SDK How to Manage a Multichain Project Using Alchemy SDK Alchemy SDK Surface Overview Alchemy SDK vs. Raw API Methods **SDK Core Methods** • call - SDK • send - SDK • estimateGas - SDK • findContractDeployer - SDK getBalance - SDK • getBlock - SDK • getBlockNumber - SDK • getBlockWithTransactions - SDK • getCode - SDK getFeeData - SDK getGasPrice - SDK getLogs - SDK • getStorageAt - SDK • getTokenBalances - SDK getTokenMetadata - SDK getTokensForOwner - SDK getTransactionCount - SDK • getTransactionReceipt - SDK • getTransactionReceipts - SDK • isContractAddress - SDK

• getAssetTransfers - SDK

```
SDK NFT Methods
   • getNftsForOwner - SDK
   • getNftMetadata -SDK
   • getNftMetadataBatch - SDK
   • refreshNftMetadata - SDK
   getNftSales - SDK
   • searchContractMetadata - SDK
   • summarizeNftAttributes - SDK
   • getNftsForOwnerIterator - SDK
   • getNftsForContractIterator - SDK
   • getContractMetadata - SDK

    getNftsForContract -SDK

   • getTransfersForOwner - SDK
   • getTransfersForContract - SDK
   • getMintedNfts - SDK
   getOwnersForNft - SDK
   • getOwnersForContract - SDK
   • getSpamContracts -SDK
   • isSpamContract - SDK

    refreshContract - SDK

   getContractsForOwner - SDK

    getFloorPrice - SDK

   • computeRarity - SDK
   • verifyNftOwnership - SDK
SDK Transact Methods
   getTransaction - SDK
   • sendTransaction - SDK
   sendPrivateTransaction - SDK
   • cancelPrivateTransaction - SDK
   • waitForTransaction - SDK
   • estimateGas - SDK
   getMaxPriorityFeePerGas - SDK

    simulateAssetChanges - SDK

   • simulateAssetChangesBundle - SDK
   • simulateExecution - SDK
   • simulateExecutionBundle - SDK
SDK Debug Methods

    traceCall - SDK

   traceTransaction - SDK
   • traceBlock - SDK
SDK Notify Methods
```

• getAllWebhooks - SDK • getAddresses - SDK • getNftFilters - SDK • createWebhook - SDK • updateWebhook - SDK deleteWebhook - SDK SDK WebSockets Endpoints **SDK Ethers Utils** arrayify • formatUnits • concat hexConcat • dnsEncode • <u>hexDataLength</u> • formatEther • hexDataSlice hexStripZeros • <u>hashMessage</u> • isHexString • isValidName • joinSignature splitSignature • toUtf8Bytes • <u>hexValue</u> • toUtf8String • hexZeroPad • zeroPad hexlify • <u>id</u> • isBytes • isBytesLike • Interface • namehash parseEther • parseUnits • stripZeros Alchemy SDK V2 to V3 Migration Guide Alchemy SDK V2 vs. V3 Method Differences SDK V2 Methods • call - SDK • getAssetTransfers - SDK getMintedNfts - SDK

• verifyNftOwnership - SDK • getOwnersForNft - SDK • computeRarity - SDK • getTransfersForContract - SDK • getNftsForOwner - SDK refreshContract - SDK • getOwnersForContract - SDK • getFloorPrice - SDK • isSpamContract - SDK findContractDeployer -SDK • getSpamContracts - SDK • getGasPrice - SDK • getBalance - SDK • getBlock -SDK getBlockWithTransactions - SDK • estimateGas - SDK • getBlockNumber - SDK • getCode - SDK • getFeeData - SDK

• getLogs - SDK

• getStorageAt - SDK

• send - SDK

• getTokenBalances - SDK

getTransactionCount - SDKgetTokenMetadata - SDK

• getTransactionReceipt - SDK

• getTransactionReceipts - SDK

• cancelPrivateTransaction - SDK

• sendPrivateTransaction - SDK

• simulateExecutionBundle - SDK

• getMaxPriorityFeePerGas - SDK

• traceTransaction - SDK

• simulateExecution - SDK

• getTransaction - SDK

getNftMetadata - SDK

• getNftSales - SDK

• isContractAddress - SDK

getNftMetadataBatch - SDKgetTokensForOwner - SDK

 simulateAssetChangesBundle - SDK • estimateGas - SDK • simulateAssetChanges - SDK • traceBlock - SDK • waitForTransaction - SDK traceCall - SDK • sendTransaction - SDK • updateWebhook - SDK • refreshNftMetadata -SDK • createWebhook - SDK • getNftFilters - SDK • getAddresses - SDK • summarizeNftAttributes - SDK • deleteWebhook - SDK • searchContractMetadata - SDK • getAllWebhooks - SDK • getNftsForOwnerIterator - SDK • getNftsForContractIterator -SDK • getContractMetadata - SDK • getTransfersForOwner - SDK • getNftsForContract - SDK **Ethereum Ethereum API Quickstart** Ethereum API FAQ • Ethereum Developer Guide to the Merge • How to decode an eth_call response • How do I distinguish between a contract address and a wallet address? **Ethereum API Endpoints** • eth_blockNumber - Ethereum post • eth getBalance - Ethereum post • eth_getLogs - Ethereum post • eth chainId - Ethereum post • eth_getBlockByNumber - Ethereum post • eth_accounts - Ethereum post • eth_feeHistory - Ethereum post • eth_estimateGas - Ethereum post • eth_gasPrice - Ethereum post • eth_getBlockTransactionCountByHash - Ethereum post • eth_getBlockReceipts - Ethereum post • eth_getBlockTransactionCountByNumber - Ethereum post

- eth_getCode Ethereum post
- eth_getProof Ethereum post
 - eth_getStorageAt Ethereum post
 - eth_getTransactionByBlockHashAndIndex Ethereum post
 - eth_getTransactionByHash Ethereum post
- eth_getTransactionCount Ethereum post
- eth_getTransactionReceipt Ethereum post
- eth_getUncleByBlockHashAndIndex Ethereum post
- eth_getUncleByBlockNumberAndIndex Ethereum post
 - eth_getUncleCountByBlockHash Ethereum post
- eth_getUncleCountByBlockNumber Ethereum post
- eth maxPriorityFeePerGas Ethereum post
- eth_protocolVersion Ethereum post
- eth_sendRawTransaction Ethereum post
 - net_listening Ethereum post
- net_version Ethereum post
 - web3_clientVersion Ethereum post
 - web3_sha3 Ethereum post
- eth_getTransactionByBlockNumberAndIndex Ethereum post
- eth_call Ethereum post
- eth_getBlockByHash Ethereum post
- eth_createAccessList Ethereum post
 - eth_newFilter Ethereum post
- eth_getFilterChanges Ethereum post
- eth_getFilterLogs Ethereum post
 - eth newBlockFilter Ethereum post
- eth_newPendingTransactionFilter Ethereum post
- eth uninstallFilter Ethereum post
- eth subscribe
- eth_unsubscribe

Polygon PoS

- Polygon PoS API Quickstart
 - Polygon SDK Examples
- Polygon PoS API FAQ
- Polygon PoS API Endpoints
- bor_getAuthor Polygon PoS post
 - bor_getCurrentProposer Polygon PoS post
 - bor_getCurrentValidators Polygon PoS post
 - bor_getRootHash Polygon PoS post
- eth_accounts Polygon PoS post

 eth_call - Polygon PoS post · eth_chainId - Polygon PoS post eth_estimateGas - Polygon PoS post • eth_gasPrice - Polygon PoS post eth_getBalance - Polygon PoS post eth_getBlockByHash - Polygon PoS post • eth getBlockByNumber - Polygon PoS post • eth_getBlockTransactionCountByHash - Polygon PoS post • eth_getBlockTransactionCountByNumber - Polygon PoS post • eth_getCode - Polygon PoS post eth_getFilterChanges - Polygon PoS post • eth_getFilterLogs - Polygon PoS post • eth_getLogs - Polygon PoS post • eth_getRootHash - Polygon PoS post eth_getSignersAtHash - Polygon PoS post eth_getStorageAt - Polygon PoS post • eth_getTransactionByBlockHashAndIndex - Polygon PoS post • eth_getTransactionByBlockNumberAndIndex - Polygon PoS post • eth_getTransactionByHash - Polygon PoS post • eth_getTransactionCount - Polygon PoS post eth_getTransactionReceipt - Polygon PoS post • eth_getTransactionReceiptsByBlock - Polygon PoS post eth_sendRawTransaction - Polygon PoS post • eth uninstallFilter - Polygon PoS post • net_listening - Polygon PoS post • eth_getUncleCountByBlockHash - Polygon PoS post • eth_getUncleCountByBlockNumber - Polygon PoS post • eth_newBlockFilter - Polygon PoS post • eth newFilter - Polygon PoS post • eth_newPendingTransactionFilter - Polygon PoS post • web3_clientVersion - Polygon PoS post • eth_createAccessList - Polygon PoS post

• eth_blockNumber - Polygon PoS post

net_version - Polygon PoS post

• eth_getProof - Polygon PoS post

eth_subscribe - Polygon PoSeth_unsubscribe - Polygon PoS

• bor_getSignersAtHash - Polygon PoS post

• eth_getUncleByBlockNumberAndIndex - Polygon PoS post

Polygon zkEVM

- Polygon zkEVM API Quickstart
- Polygon zkEVM API FAQ
- What is the difference between Polygon zkEVM and Ethereum?
- What is the difference between Polygon zkEVM and Polygon PoS?
- Polygon zkEVM Endpoints
 - eth_getTransactionCount Polygon zkEVM post
 - eth_call Polygon zkEVM post
 - eth_chainId Polygon zkEVM post
 - eth_newBlockFilter Polygon zkEVM post
 - eth estimateGas Polygon zkEVM post
 - eth_newFilter Polygon zkEVM post
 - eth_gasPrice Polygon zkEVM post
 - eth_sendRawTransaction Polygon zkEVM post
- eth_getBalance Polygon zkEVM post
- eth_uninstallFilter Polygon zkEVM post
- eth_getBlockByHash Polygon zkEVM post
- net_version Polygon zkEVM post
- eth_getBlockByNumber Polygon zkEVM post
- web3_clientVersion Polygon zkEVM post
 - eth_getBlockTransactionCountByHash Polygon zkEVM post
 - eth_getBlockTransactionCountByNumber Polygon zkEVM post
 - zkevm_batchNumber Polygon zkEVM post
 - eth_getCode Polygon zkEVM post
 - eth_getFilterChanges Polygon zkEVM post
 - eth_getFilterLogs Polygon zkEVM post
 - zkevm_getBatchByNumber Polygon zkEVM post
 - eth_getLogs Polygon zkEVM post
 - zkevm_getBroadcastURI Polygon zkEVM post
 - eth_getStorageAt Polygon zkEVM post
 - zkevm_isBlockConsolidated Polygon zkEVM post
 - eth_getTransactionByBlockHashAndIndex Polygon zkEVM post
 - zkevm_isBlockVirtualized Polygon zkEVM post
 - eth_getTransactionByBlockNumberAndIndex Polygon zkEVM post
 - zkevm verifiedBatchNumber Polygon zkEVM post
 - eth_getTransactionByHash Polygon zkEVM post
 - zkevm_virtualBatchNumber Polygon zkEVM post
 - eth_getCompilers Polygon zkEVM post
 - eth_getUncleByBlockHashAndIndex Polygon zkEVM post
 - eth_getUncleByBlockNumberAndIndex Polygon zkEVM post

- eth_getUncleCountByBlockHash Polygon zkEVM post
- eth_getUncleCountByBlockNumber Polygon zkEVM post
- eth_protocolVersion Polygon zkEVM post
- eth_blockNumber Polygon zkEVM post
- eth_getTransactionReceipt Polygon zkEVM post
- zkevm_batchNumberByBlockNumber Polygon zkEVM post
- zkevm consolidatedBlockNumber Polygon zkEVM post
- zkevm_estimateFee API Polygon zkEVM post
- zkevm estimateGasPrice API Polygon zkEVM post

Arbitrum

- Arbitrum API Quickstart
 - Arbitrum SDK Examples
- Arbitrum API FAQ
 - Arbitrum vs. Ethereum API Differences
- Arbitrum API Endpoints
- eth call Arbitrum post
- eth_estimateGas Arbitrum post
- eth_accounts Arbitrum post
- eth_blockNumber Arbitrum post
- eth_chainId Arbitrum post
- eth_gasPrice Arbitrum post
 - eth_getBalance Arbitrum post
- eth_getBlockTransactionCountByHash Arbitrum post
 - eth_getBlockTransactionCountByNumber Arbitrum post
 - eth_getCode Arbitrum post
 - eth_getFilterChanges Arbitrum post
 - eth_getFilterLogs Arbitrum post
- eth_getLogs Arbitrum post
- eth_getStorageAt Arbitrum post
- eth_getTransactionByBlockHashAndIndex Arbitrum post
- eth_getTransactionCount Arbitrum post
- eth_getUncleByBlockNumberAndIndex Arbitrum post
- eth_getUncleCountByBlockHash Arbitrum post
- eth_getUncleCountByBlockNumber Arbitrum post
- eth_newBlockFilter Arbitrum post
- eth_newFilter Arbitrum post
- eth_newPendingTransactionFilter Arbitrum post
- eth_uninstallFilter Arbitrum post
 - net_listening Arbitrum post
- net_version Arbitrum post

- web3_clientVersion Arbitrum post
- web3 sha3 Arbitrum post
- eth_sendRawTransaction Arbitrum post
- eth_createAccessList Arbitrum post
- eth_maxPriorityFeePerGas Arbitrum post
- eth_feeHistory Arbitrum post
- eth_getBlockByHash Arbitrum post
- eth_getBlockByNumber Arbitrum post
- eth_getTransactionByBlockNumberAndIndex Arbitrum post
- eth_getTransactionByHash Arbitrum post
- eth_getProof Arbitrum post
 - eth_getTransactionReceipt Arbitrum post
- eth_getUncleByBlockHashAndIndex Arbitrum post
- eth_subscribe
 - eth_unsubscribe

Optimism

- Optimism API Quickstart
- Optimism SDK Examples
- Optimism API FAQ
 - Optimism Error Codes
- Optimism API Endpoints
- eth_call Optimism post
 - eth_estimateGas Optimism post
 - eth_accounts Optimism post
 - eth_blockNumber Optimism post
 - eth_chainId Optimism post
 - eth_gasPrice Optimism post
 - eth_getBalance Optimism post
- eth_getBlockTransactionCountByHash Optimism post
- eth_getBlockTransactionCountByNumber Optimism post
- eth_getCode Optimism post
- eth_getFilterChanges Optimism post
- eth_getFilterLogs Optimism post
- eth_getLogs Optimism post
 - eth_getStorageAt Optimism post
- eth_getTransactionByBlockHashAndIndex Optimism post
- eth_getTransactionByBlockNumberAndIndex Optimism post
- eth_getTransactionByHash Optimism post
 - eth_getTransactionCount Optimism post
- eth_getTransactionReceipt Optimism post

- eth_getUncleByBlockHashAndIndex Optimism post
- eth_getUncleByBlockNumberAndIndex Optimism post
- eth_getUncleCountByBlockHash Optimism post
- eth_getUncleCountByBlockNumber Optimism post
- eth_newBlockFilter Optimism post
- eth_newFilter Optimism post
- - eth newPendingTransactionFilter Optimism post
- eth_protocolVersion Optimism post
- eth_sendRawTransaction Optimism post
- eth_syncing Optimism post
- eth_uninstallFilter Optimism post
- net listening Optimism post
- net_version Optimism post
- web3_clientVersion Optimism post
- web3_sha3 Optimism post
- eth_getBlockByHash Optimism post
- eth_getBlockByNumber Optimism post
 - eth_getProof Optimism post
- eth_subscribe
- eth_unsubscribe

Base

- Base API Quickstart
- Base API FAQ
- Base API Endpoints
 - eth_accounts Base post
 - eth_blockNumber Base post
 - eth_call Base post
 - eth_chainId Base post
- eth_estimateGas Base post
- eth_feeHistory Base post
 - eth_gasPrice Base post
- eth_getBalance Base post
- eth_getBlockByHash Base post
- eth_getBlockByNumber Base post
- eth_getBlockTransactionCountByHash Base post
- eth_getBlockTransactionCountByNumber Base post
- eth_getCode Base post
 - eth_getFilterChanges Base post
 - eth_getFilterLogs Base post
- eth_getLogs Base post

- eth_getProof Base post
- eth_getStorageAt Base post
 - eth_getTransactionByBlockHashAndIndex Base post
 - eth_getTransactionByBlockNumberAndIndex Base post
 - eth_getTransactionByHash Base post
- eth_getTransactionCount Base post
- eth_getTransactionReceipt Base post
- eth_getUncleByBlockHashAndIndex Base post
- eth_getUncleByBlockNumberAndIndex Base post
- eth_getUncleCountByBlockHash Base post
- eth_getUncleCountByBlockNumber Base post
- eth_maxPriorityFeePerGas Base post
- eth_newBlockFilter Base post
- eth_newFilter Base post
- eth_newPendingTransactionFilter Base post
 - eth_protocolVersion Base post
 - eth_sendRawTransaction Base post
 - eth_syncing Base post
 - eth_uninstallFilter Base post
 - net_listening Base post
- web3_sha3 Base post

* Solana

- Solana API Quickstart
- Solana API FAQ
- Solana API Endpoints
 - getAccountInfo post
 - simulateTransaction post
 - getBalance post
 - getBlock post
- getBlockCommitment post
- getBlockProduction post
- getBlocks post
- getBlocksWithLimit post
- getBlockTime post
 - getClusterNodes post
- getolasten todes per
- getEpochInfo post
 - getEpochSchedule post
 - getFeeForMessage post
 - getFirstAvailableBlock post
- getGenesisHash post

 getHealth post • getHighestSnapshotSlot post getIdentity post • getInflationGovernor post • getInflationRate post getInflationReward post getLargestAccounts post • getMaxRetransmitSlot post • getMaxShredInsertSlot post • getMinimumBalanceForRentExemption post • getMultipleAccounts post getProgramAccounts post • getRecentPerformanceSamples post • getSignaturesForAddress post • getSignatureStatuses post getSlot post • getSlotLeader post • getSlotLeaders post getSupply post • getTokenAccountBalance post getTokenAccountsByOwner post

• getTokenSupply post

getTransaction post

getVoteAccounts postisBlockhashValid post

• minimumLedgerSlot post

• getRecentBlockhash post

eth_accounts - Astar post

eth_blockNumber - Astar post

eth_call - Astar post

eth_getTransactionReceipt - Astar posteth_maxPriorityFeePerGas - Astar post

Astar

• sendTransaction post

requestAirdrop postgetBlockHeight post

Astar API QuickstartAstar API FAQAstar API Endpoints

• getVersion post

- eth_chainId Astar posteth_gasPrice Astar post
 - eth_getBalance Astar post
 - eth_getBlockByHash Astar post
 - eth_getBlockByNumber Astar post
 - eth_getBlockTransactionCountByHash Astar post
- eth_getBlockTransactionCountByNumber Astar post
- eth_getCode Astar post
- eth_getStorageAt Astar post
- eth_getTransactionByBlockHashAndIndex Astar post
- eth_getTransactionByBlockNumberAndIndex Astar post
- eth_getTransactionByHash Astar post
 - eth_getTransactionCount Astar post
- eth_getUncleByBlockNumberAndIndex Astar post
 - eth_sendRawTransaction Astar post
 - net_version Astar post
 - web3_clientVersion Astar post
 - web3_sha3 Astar post
 - eth_getLogs Astar post
- eth_getFilterChanges Astar post
- eth_getFilterLogs Astar post
- eth_newFilter Astar post
- eth_newPendingTransactionFilter Astar post
- eth uninstallFilter Astar post
- eth_newBlockFilter Astar post
- eth estimateGas Astar post
- eth subscribe
 - eth unsubscribe

STARKNET

- Starknet API Quickstart
- Starknet API FAQ
- Starknet API Endpoints
 - starknet_addDeclareTransaction post
- starknet_getClassAt post
 - starknet_addDeployAccountTransaction post
- starknet_getClassHashAt post
- starknet_addInvokeTransaction post
- starknet_getEvents post
- starknet_blockHashAndNumber post
- starknet_getNonce post

- starknet_blockNumber post
- starknet getStateUpdate post
- starknet_call post
 - starknet_getStorageAt post
- starknet chainld 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

eth estimateGas - Ethereum

post https://{network}.g.alchemy.com/v2/{apiKey} Generates and returns an estimate of how much gas is necessary to allow the transaction to complete. The transaction will not be added to the blockchain.

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; marginbottom: 7px; margin-top: 0px; color: #00000 limportant; } .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: #FFFFF limportant; background: linear-gradient(126.33deg, #36BEFF 5.38%, #733FF1 108.32%); border-radius: 6px; font-size: 16px; lineheight: 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 API in your app today. Get started for free dont_have_api_sec_end

Note

The estimate may be significantly more than the amount of gas actually used by the transaction, for a variety of reasons including EVM mechanics and node performance. Estimates are served directly from nodes, we're not doing anything special to the value so the rest of the network is likely seeing the same.

Parameters

```
    Object

      • The transaction call object* from
      o :
      DATA
      \circ\,\, , 20 Bytes - (optional) The address the transaction is sent from.
      • to
      o :
      DATA
      \circ\,\, , 20 Bytes - The address to which the transaction is directed to.
      • gas
```

٥	QUANTITY
٥	 (optional) Integer of the gas provided for the transaction execution.
0	eth_call
0	consumes zero gas, but this parameter may be needed by some executions.NOTE: this parameter has a cap of550 million
0	Gwei per request. Reach out to us abupport@alchemy.com
0	if you want to increase this limit.
0	gasPrice
0	:
0	QUANTITY
0	• (optional) Integer of the
0	gasPrice
0	used for each paid gas.
0	value
0	:
0	QUANTITY
0	• (optional) Integer of the value sent with this transaction
0	data
0	:
0	DATA
。 JA	 (optional) Hash of the method signature and encoded parameters. For details see Ethereum Contract ABI NTITY TAG
0	integer block number, or the string "latest", "earliest" or "pending", see the default block parameter

Note

- $\bullet \ \ eth_estimateGas$
- will check the balance of the sender (to make sure that the sender has enough gas to complete the request). This means that even though the call doesn't consume any gas, the
- from
- address must have enough gas to execute the transaction.
- If no
- gas
- is specified geth uses the block gas limit from the pending block as an upper bound. As a result, the returned estimate might not be enough to execute the call/transaction when the amount of actual gas needed is higher than the pending block gas limit.

Returns

QUANTITY - the amount of gas used.

Example

Request

alchemyweb3.js ethers.js web3.py cURL Postman SDK // Installation instructions: https://github.com/alchemyplatform/alchemy-web3 async function main () {// alchemy-token-api/alchemy-web3-script.js import {createAlchemyWeb3 }from "@alch/alchemy-web3" ;// Replace with your Alchemy API key: const apiKey = "demo" ;// Initialize an alchemy-web3 instance: const web3 = createAlchemyWeb3 (https://eth-mainnet.g.alchemy.com/v2{ apiKey } ,);// Query the blockchain (replace example parameters) const estGas = await web3 .eth .estimateGas ({from :"0xge61df" ,to :"0x087a5c" ,data :"0xa9059c" ,gasPrice :"0xa994f8" , })// Print the output to console console .log (estGas); }main (); // Installation instructions: https://docs.ethers.io/v5/getting-started/#installing async function main () {const {ethers }= require ("ethers");// Replace with your Alchemy API key: const apiKey = "demo" ;// Initialize an ethers instance const provider = new ethers .providers .JsonRpcProvider ('https://eth-mainnet.g.alchemy.com/v2{apiKey}' ,);// Query the blockchain (replace example parameters) const estGas = await provider

.estimateGas ({from :"0xge61df" ,to :"0x087a5c" ,data :"0xa9059c" ,gasPrice :"0xa994f8" , })// Print the output to console console .log (estGas); }main ()

Installation Instructions: https://web3py.readthedocs.io/en/latest/quickstart.html#installation

from web3 import Web3 ,HTTPProvider

Replace with your Alchemy API key:

const apiKey = "demo" ;# Initialize a Web3.py instance web3 = Web3 (Web3 .HTTPProvider ('https://eth-mainnet.g.alchemy.com/v2{apiKey}'))# Query the blockchain (replace example parameters) estGas = web3 .eth .estimate_gas ({'to' :'0xd3CdA913deB6f67' ,'from' :web3 .eth .coinbase ,'value' :12345 })# Print the output to console print (estGas) curl https://eth-mainnet.g.alchemy.com/v2/your-api-key -X POST -H "Content-Type: application/json" -d '{"jsonrpc":"2.0","method":"eth_estimateGas","params":[{"from": "0x8D97689C9818892B700e27F316cc3E41e17fBeb9","to": "0xd3CdA913deB6f67967B99D67aCDFa1712C293601","value": "0x186a0"}],"id":1}' URL: https://eth-mainnet.g.alchemy.com/v2/your-api-key RequestType: POST Body:

{ "jsonrpc":"2.0", "method":"eth_estimateGas", "params":[{ "from": "0x8D97689C9818892B700e27F316cc3E41e17fBeb9", "to": "0xd3CdA913deB6f67967B99D67aCDFa1712C293601", "value": "0x186a0" }], "id":1 } // Setup: npm install alchemy-sdk // Github: https://github.com/alchemyplatform/alchemy-sdk-js import {Network ,Alchemy ,parseEther }from "alchemy-sdk" ;// Optional config object, but defaults to demo api-key and eth-mainnet. const settings = {apiKey :"demo" ,// Replace with your Alchemy API Key. network :Network .ETH_MAINNET ,// Replace with your network. };const alchemy = new Alchemy (settings);alchemy .core .estimateGas ({// Wrapped ETH address to :"0xC02aaA39b223FE8D0A0e5C4F27eAD9083C756Cc2" ,// function deposit() payable data :"0xd0e30db0" ,// 1 ether value :parseEther ("1.0"), }} .then (console .log);

Result

JavaScript {"id" :1 ,"jsonrpc" :"2.0" ,"result" :"0x5208" // 21000 }

The below parameter inputs do not work, please reference the section above instead.

Path Params apiKey string required .custom-style { color: #048FF4; } For higher throughput, create your own API key Body Params id integer jsonrpc string method string params array params Transaction Object Block Number or Tag Transaction Object Block Number or Tag

Response

200

Returns the amount of gas used.

Response body object id integer jsonrpc string result string

Updated 5 months ago

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