### 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
- getCollectionMetadata get
- invalidateContract get
- getContractMetadataBatch post
- getNFTsForContract get
- getNFTsForCollection get
  - searchContractMetadata get
- refreshNftMetadata post

- Spam Detection getSpamContracts get isSpamContract get isAirdropNFT get 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
    - reportSpam get

## **Transfers API (Tx History)**

- Transfers API Quickstart
- **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

### **Alchemy Rollups**

- Rollups Quickstart
- Supported Stacks

## **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 posttrace\_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
- Bundler RPC Errors
- Factory Addresses
- Gas Manager Coverage API Quickstart
- Gas Manager Coverage API Endpoints
- alchemy\_requestPaymasterAndData post

•

- alchemy requestGasAndPaymasterAndData post
- Gas Manager Coverage API Fee Logic & Usage Limits
- Gas Manager Deployment Addresses
- **UserOperation Simulation Endpoints**

- <u>alchemy\_simulateUserOperationAssetChanges post</u>
- AA-SDK
- **Account Abstraction FAQ**
- **EntryPoint Revert Codes** 
  - AA10 sender already constructed
  - AA13 initCode failed or OOG
- AA14 initCode must return sender
  - AA15 initCode must create sender
  - AA20 account not deployed
- AA21 Didn't pay prefund
  - AA22 expired or not due

    - AA23 reverted (or OOG)
    - AA24 signature error
    - AA25 Invalid account nonce
- AA30 paymaster not deployed
- AA31 paymaster deposit too low
  - AA32 Paymaster expired or not due
  - AA33 reverted (or OOG)
- AA34 Signature Error
  - AA40 over verificationGasLimit
- AA41 too little verificationGas
  - AA50 postOp reverted
  - AA51 prefund below actualGasCost
- AA90 invalid beneficiary
- AA91 failed send to beneficiary
- · AA92 internal call only
- AA93 invalid paymasterAndData
- AA94 gas values overflow
- AA95 out of gas
  - · AA96 invalid aggregator

### **Embedded Accounts**

- **Accounts API Endpoints**
- Create Account post

- Send Auth Email 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
- 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
  - hexDataLength
  - formatEther
  - hexDataSlice
    - hexStripZeros
  - <u>hashMessage</u>
  - isHexString
  - isValidName
    - joinSignature
  - splitSignature
  - toUtf8Bytes
  - <u>hexValue</u>
  - toUtf8String
    - <u>hexZeroPad</u>
  - 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
  - getNftMetadataBatch SDK
  - getTokensForOwner SDK
  - getStorageAt SDK
  - getTokenBalances SDK
  - getTransactionCount SDK
  - getTokenMetadata SDK
  - getTransactionReceipt SDK
    - send SDK
  - getTransactionReceipts SDK
- getTransaction SDK

- isContractAddress SDK
- getNftMetadata SDK
- getNftSales SDK
- cancelPrivateTransaction SDK
  - sendPrivateTransaction SDK
  - traceTransaction SDK
- simulateExecutionBundle SDK
- simulateExecution SDK
  - getMaxPriorityFeePerGas 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\_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\_getBlockReceipts 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
- bor\_getSignersAtHash Polygon PoS post
- net\_version Polygon PoS post
- eth\_getProof Polygon PoS post
- eth\_getUncleByBlockNumberAndIndex Polygon PoS post
- eth\_maxPriorityFeePerGas Polygon PoS post
- eth\_getBlockReceipts Polygon PoS post
- eth subscribe Polygon PoS
- eth\_unsubscribe Polygon PoS

## 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\_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\_getBlockReceipts Arbitrum post
  - eth\_feeHistory 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\_getBlockReceipts 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
- eth\_getBlockReceipts Base post

### \* Solana

- Solana API Quickstart
- Solana API FAQ
- Solana API Endpoints
- a a t A
  - getAccountInfo post
- •
- simulateTransaction post
- •
- getBalance post
- - getBlock post
- getBlockCommitment post
  - getBlockProduction post
- getBlocks post
- getBlocksWithLimit post
- getBlockTime post
- - getClusterNodes post
  - 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 postgetSlot post
  - getSlotLeader post
  - getSlotLeaders post
  - getSupply post
- getTokenAccountBalance post
- getTokenAccountsByOwner post
- getTokenSupply post
  - getTransaction post
- getVersion post
  - getVoteAccounts post
- isBlockhashValid post
- minimumLedgerSlot post
- sendTransaction post
  - requestAirdrop post
- getBlockHeight post
- getRecentBlockhash post
  - getRecentPrioritizationFees post

### **Astar**

- Astar API Quickstart
- Astar API FAQ
- Astar API Endpoints
  - eth\_accounts Astar post
  - eth\_getTransactionReceipt Astar post
- eth\_maxPriorityFeePerGas Astar post
  - eth\_blockNumber Astar post
  - eth\_call Astar post
- eth\_chainId Astar post
  - eth\_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\_getBlockReceipts 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 chainId 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

### zksync

- zkSync Era API Quickstart
- zkSync Era API FAQ
- zkSync Era API Endpoints
  - eth\_accounts zkSync post
  - eth\_blockNumber zkSync post
  - eth\_call zkSync post
- eth\_chainId zkSync post
- eth\_createAccessList zkSync post
- eth\_estimateGas zkSync post
- eth\_feeHistory zkSync post
  - eth\_gasPrice zkSync post
  - eth\_getBalance zkSync post
- eth\_getBlockByHash zkSync post
- eth\_getBlockByNumber zkSync post
  - eth\_getBlockTransactionCountByHash zkSync post
- eth\_getBlockTransactionCountByNumber zkSync post
- eth\_getCode zkSync post
- eth\_getFilterChanges zkSync post
- eth\_getFilterLogs zkSync post
- eth\_getLogs zkSync post

- eth\_getProof zkSync post
- eth\_getStorageAt zkSync post
  - eth\_getTransactionByBlockHashAndIndex zkSync post
- eth\_getTransactionByBlockNumberAndIndex zkSync post
  - eth\_getTransactionByHash zkSync post
  - eth\_getTransactionCount zkSync post
  - eth\_getTransactionReceipt zkSync post
- eth\_getUncleByBlockHashAndIndex zkSync post
- eth\_getUncleByBlockNumberAndIndex zkSync post
- eth\_getUncleCountByBlockHash zkSync post
- eth\_getUncleCountByBlockNumber zkSync post
- eth\_maxPriorityFeePerGas zkSync post
- eth\_newBlockFilter zkSync post
  - eth\_newFilter zkSync post
  - eth\_newPendingTransactionFilter zkSync post
- eth\_protocolVersion zkSync post
- eth\_sendRawTransaction zkSync post
  - eth\_uninstallFilter zkSync post
  - net\_listening zkSync post
  - net\_version zkSync post
- web3\_clientVersion zkSync post
- web3 sha3 zkSync post
  - zks\_estimateFee zkSync post
  - zks\_estimateGasL1ToL2 zkSync post
- zks\_getAllAccountBalances zkSync post
- zks\_getBlockDetails zkSync post
  - zks\_getBridgeContracts zkSync post
  - zks\_getBytecodeByHash zkSync post
- zks\_getL1BatchBlockRange zkSync post
- zks\_getL1BatchDetails zkSync post
- zks\_getL2ToL1LogProof zkSync post
  - zks\_getL2ToL1MsgProof zkSync post
- zks\_getMainContract zkSync post
- zks getProof zkSync post

- zks\_getRawBlockTransactions zkSync post
- zks\_getTestnetPaymaster zkSync post
- - zks\_getTransactionDetails zkSync post
  - zks\_L1BatchNumber zkSync post
  - zks\_L1ChainId zkSync post
    - eth\_getBlockReceipts zkSync post

# AA94 gas values overflow

A gas value of the userOp did not fit into a uint160.

#### **Possible Solutions**

- 1. Check that all the gas limit and gas price fields of the userOp fit into
- 2. uint160
- 3. .
- 4. If the gas limits or gas prices for your userOp are suggested by a bundler provider like Alchemy, reach out.

Updated 2 days ago

AA93 invalid paymasterAndData AA95 out of gas Did this page help you?Yes No