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eth_subscribe

Subscribe to different Arbitrum event types like newHeads, logs, pendingTransactions, and syncing using WebSockets.

Creates a new subscription for desired events. Sends data as soon as it occurs.

Parameters

- · Event types
 - specifies the type of event to listen to (ex: new pending transactions, logs, etc.)
- · Optional params
 - optional parameters to include to describe the type of event to listen to (ex:
- address

Returns

While the subscription is active, you will receive events formatted as an object described below:

- Event Object:* jsonrpc
- · : Always "2.0"
- method
- · : Always "eth_subscription"
- params
 - · : An object with the following fields:* subscription
 - . The subscription ID returned by the
- eth_subscribe
 - call which created this subscription. This ID will be attached to all received events and can also be used to

cancel the subscription usingeth unsubscribe

- ∘ ■ result
 - : An object whose contents vary depending on the event type.

Event types

The following event types are accepted in all eth_subscribe WebSocket requests through your Alchemy endpoint. You can view the individual docs for example requests and responses.

Subscription Type Description <u>alchemy_minedTransactions</u> Emits full transaction objects or hashes that are mined on the network based on provided filters and block tags. <u>newHeads</u> Emits new blocks that are added to the blockchain. [logs] [ref:logs] Emits logs attached to a new block that match certain topic filters.

Request

wscat alchemy-sdk // initiate websocket stream first wscat - c wss ://arb-mainnet.g.alchemy.com/v2/demo // no param specification - return all mined txs {"jsonrpc" :"2.0" ,"id" :2 ,"method" :"eth_subscribe" ,"params" : ["alchemy_minedTransactions"]} // Installation: npm install alchemy-sdk import {Alchemy ,Network }from "alchemy-sdk" ;const settings = {apiKey :"demo" ,// Replace with your Alchemy API Key. network :Network .ARB_MAINNET ,// Replace with your network. };const alchemy = new Alchemy (settings);// Subscription for Alchemy's minedTransactions API alchemy .ws .on ({method :"alchemy_pendingTransactions" ,toAddress :"vitalik.eth" ,fromAddress :"0xshah.eth" , }, (tx)=> console .log (tx));

Result

```
results {"id" :1 ,"result" :"0xf13f7073ddef66a8c1b0c9c9f0e543c3" ,"jsonrpc" :"2.0" }// hashesOnly = true {"jsonrpc" :"2.0" ,"method" :"eth_subscription" ,"params" : {"result" : {"removed" :false "transaction" : {"hash" :"0xa8f2cf69e302da6c8100b80298ed77c37b6e75eed1177ca22acd5772c9fb9876" , } },"subscription" :"0xf13f7073ddef66a8c1b0c9c9f0e543c3" } }// hashesOnly = false {"jsonrpc" :"2.0" ,"method" :"eth_subscription" ,"params" : {"result" : {"removed" :false "transaction" : {"blockHash" :"0xbe847be2bceb74e660daf96b3f0669d58f59dc9101715689a00ef864a5408f43" ,"blockNumber" :"0x5b8d80" ,"hash" :"0x2a9847093ad514639e8cdec960b5e51686960291" ,"gas" :"0x4f588" ,"gasPrice" :"0xc22a75840" ,"input" :"0x000101d521928b4146" ,"nonce" :"0x9a2" ,"r" :"0xb5889c55a0ebbf86627524affc9c4fdedc4608bee7a0f9880b5ec965d58e4264" ,"s" :"0x2da32e817e2483ec2199ec0121b93384ac820049a75e11b40d152fc7558a5d72" ,"to" :"0xc7ed8919c70dd8ccf1a57c0ed75b25ceb2dd22d1" ,"transactionIndex" :"0x14" ,"type" :"0x0" ,"v" :"0x1c" ,"value" :"0x0" } },"subscription" :"0xf13f7073ddef66a8c1b0c9c9f0e543c3" } }
```

WebSocket Limits

- There is a limit of 20,000 WebSocket connections per API Key as well as 1,000 parallel WebSocket subscriptions per WebSocket connection, creating a maximum of 20 million subscriptions per application.* The maximum size of a JSON-RPC
 - batch
 - request that can be sent over a WebSocket connection is 20
 - Free tier users will be limited to 10 concurrent requests per WebSocket connection.

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