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## Custom Webhook

Track any smart contract or marketplace activity, monitor any contract creation, or ingest any other on-chain interaction. Infinite data access with precise filter controls.

Chain Mainnet Testnet Ethereum Polygon Optimism Arbitrum Base

# Introduction

Alchemy's Custom Webhook allows developers to stream on-chain data and get immediately notified about the most recent blockchain data changes. While previous Alchemy Notify solutions covered only pre-defined, transfers-based events, with Custom Webhooks, developers can understand any contract-based event, from token and marketplace activity, to comprehensive data ingestion. Custom Webhooks utilize a GraphQL interface so that web3 devs can have rich filters and only receive the precise blockchain data they need.

**TIP**

If you are looking for historical blockchain activity, check out the [Transfers API Endpoints](#).

## Example Response

With Custom Webhooks utilizing a GraphQL-style interface for queries, there are an infinite number of response payload combinations. While we cannot provide an exact example for each potential query, here is one potential response that highlights the nested structure of each query originating from the block level.

```
Custom Webhooks Response {"webhookId": "wh_a55wfsvq5h8n8u3z", "id": "whevt_rsdblc6zxia8a6ntl", "createdAt": "2024-01-23T07:51:07.945953790Z", "type": "GRAPHQL", "event": {"data": {"block": {"logs": [{"transaction": {"hash": "0x8a179038d909c1906fddf0a2d38e4d3ef76eba30c1c26f758451e3b69a64f5a6", "index": 105, "from": {"address": "0xeeda051ab883d52923bc0951dd2edcbc7c0da597"}, "to": {"address": "0xdafce4acc2703a24f29d1321adaadf5768f54642"}}, "maxFeePerGas": "0x7a06d848c", "maxPriorityFeePerGas": "0x59682f00", "gasUsed": 628816, "cumulativeGasUsed": 10040718, "effectiveGasPrice": "0x57cc4f32c", "logs": [{"account": {"address": "0xbc4ca0eda7647a8ab7c2061c2e118a18a936f13d"}}, {"topics": ["0x8c5be1e5ebec7d5bd14f71427d1e84f3dd0314c0f7b2291e5b200ac8c7c3b925", "0x000000000000000000000000dbfd76af2157dc15ee4e57f3f942bb45ba84af24", "0x0000000000000000000000000000000000000000000000000000000000000000"], "0x000000000000000000000000000000000000000000000000000000000000006e5"], "index": 238 }, {"account": {"address": "0xbc4ca0eda7647a8ab7c2061c2e118a18a936f13d"}}, {"topics": ["0xdddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef", "0x000000000000000000000000dbfd76af2157dc15ee4e57f3f942bb45ba84af24"]}]}}
```

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[illegible]

[illegible]

[illegible]

```
[{"tx": "0x000000000000000000000000dafaace4acc2703a24f29d1321adaadf5768f54642"}], "index": :257 }, {"account": {"address": "0x5f6ac80cdb9e87f3cfa6a90e5140b9a16a361d5c"}}, {"topics": [{"transaction": {"hash": "0x8a179038d909c1906fddf0a2d38e4d3ef76eba30c1c26f758451e3b69a64f5a6"}, "index": :105, "from": {"address": "0xceda051ab883d52923bc0951dd2edcbc7c0da597"}, "to": {"address": "0xdafce4acc2703a24f29d1321adaadf5768f54642"}, "maxFeePerGas": "0x7a06d848c", "maxPriorityFeePerGas": "0x59682f00", "gasUsed": :628816, "cumulativeGasUsed": :10040718, "effectiveGasPrice": "0x57cc4f32c", "logs": [{"account": {"address": "0xabc4ca0eda7647a8ab7c2061c2e118a18a936f13d"}}, {"topics": [{"tx": "0x8c5be1e5ebec7d5bd14f71427d1e84f3dd0314c0f7b2291e5b200ac8c7c3b925"}], "index": :238 }, {"account": {"address": "0xabc4ca0eda7647a8ab7c2061c2e118a18a936f13d"}}, {"topics": [{"tx": "0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef"}], "index": :239 }, {"account": {"address": "0xabc4ca0eda7647a8ab7c2061c2e118a18a936f13d"}}, {"topics": [{"tx": "0x8c5be1e5ebec7d5bd14f71427d1e84f3dd0314c0f7b2291e5b200ac8c7c3b925"}], "index": :240 }, {"account": {"address": "0xabc4ca0eda7647a8ab7c2061c2e118a18a936f13d"}}, {"topics": [{"tx": "0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef"}], "index": :241 }, {"account": {"address": "0x4d224452801aced8b2f0aabe155379bb5d594381"}}, {"topics": [{"tx": "0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef"}], "index": :242 }, {"account": {"address": "0x5954ab967bc958940b7eb73ee84797dc8a2afb9"}}, {"topics": [{"tx": "0xd334b3114fc25cbd72389ff9c361d5f8b0924e35fa237c65ac209a2cdcf4ba13"}], "index": :243 }, {"account": {"address": "0x5954ab967bc958940b7eb73ee84797dc8a2afb9"}}, {"topics": [{"tx": "0x46916533b23d6665275e4143ec7eeb4b6b4ae92178ebbfe99f112564d2c7b1aa"}], "index": :244 }, {"account": {"address": "0x4d224452801aced8b2f0aabe155379bb5d594381"}}, {"topics": [{"tx": "0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef"}], "index": :245 }, {"account": {"address": "0xabc4ca0eda7647a8ab7c2061c2e118a18a936f13d"}}, {"topics": [{"tx": "0x8c5be1e5ebec7d5bd14f71427d1e84f3dd0314c0f7b2291e5b200ac8c7c3b925"}], "index": :246 }, {"account": {"address": "0xabc4ca0eda7647a8ab7c2061c2e118a18a936f13d"}}, {"topics": [{"tx": "0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef"}], "index": :247 }, {"account": {"address": "0xdafce4acc2703a24f29d1321adaadf5768f54642"}}, {"topics": [{"tx": "0x6834bcb181c65df18ce2da14523ae95d5db81f9a666b2334d1b58e8caa952cfb"}], "index": :248 }, {"account": {"address": "0x4d224452801aced8b2f0aabe155379bb5d594381"}}, {"topics": [{"tx": "0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef"}], "index": :249 }, {"account": {"address": "0xdafce4acc2703a24f29d1321adaadf5768f54642"}}, {"topics": [{"tx": "0x26c0bb14e11e9523f44f08b2a825dca537906e0f69f7f106addb627407287b2"}], "index": :250 }, {"account": {"address": "0x4d224452801aced8b2f0aabe155379bb5d594381"}}, {"topics": [{"tx": "0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef"}], "index": :251 }]
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,"0x0000000000000000000000dbfd76af2
```

[illegible]



[illegible]

[illegible]

[illegible]

## Field Definitions

Field Description Value webhookId Unique ID of the webhook destination. wh\_octjglnywaupz6th id ID of the event. whevt\_ogrc5v64myey69ux createdAt Timestamp when the webhook was created. 2022-02-28T17:48:53.306Z type Webhook event type. GRAPHQL event Nested block/transaction/log object. N/A block Nested object under each block N/A sequenceNumber An incrementing integer used for client-side re-org handling. 100000000000578619000

## How to Set Up Custom Webhooks

- If you're new to GraphQL, this editor has autocomplete enabled and will magically suggest fields as you start typing. If you get lost, you can always search for available queries in the docs tab on the right!

1. Test and validate your GraphQL query by clicking the **Test Webhook**

2. button. Confirm that your GraphQL query is valid does not contain any syntactical errors.
3. NOTE:
4. If you want to test your GraphQL query on a historical block, you can simply define your target block hash within the top-level block filter.

Historical Block Filter { block (hash:"0x23..... 2d1e" ) { hash, } } 1. ClickCREATE WEBHOOK 2. again to submit your GraphQL filter to Alchemy. Alchemy automatically replaces the top-level block hash filter withlatest 3. so each webhook is fired for the latest canonical block! 4. Check your endpoint to see responses.

## Useful Endpoints

Endpoint Description [Create Webhook](#) This endpoint allows you to create a webhook programatically.[Delete Webhook](#) Allows you to delete a webhook. [Get All Webhooks](#) Allows you to get all instantiated webhooks.

Updated 25 days ago

[Webhook Types](#) [Address Activity Webhook](#) Did this page help you?Yes No