

Quickstart - Covalent Indexing and Querying API

[Covalent](#) is a hosted blockchain data solution providing access to historical and current onchain data for [200+ supported blockchains](#), including Arbitrum One, Nova and Orbit chains.

Covalent maintains a full replica of every supported blockchain, meaning you have access to:

- Current and historical account balances
- Full transaction histories
- Every contract log event
- All NFTs including assets and metadata

Use Covalent if you need:

- Wallet, Transactions, NFT, DEX, Staking or core blockchain data (log events, blocks)
- Normalized, aggregated and enhanced multichain data, well beyond what you get from RPC providers
- Enterprise-grade performance

[Sign up to start building on Arbitrum](#)

APIs

The Covalent APIs enables developers to quickly and easily access structured onchain data. This means consistent response schemas regardless of the blockchain. Available APIs and corresponding use cases include:

Wallet API

- Features:
- All token balances (ERC20, 721, 1155, native), token transfers and prices (spot & historical) for a wallet.
- Use cases:
- [Wallets, portfolio trackers](#)
- , token gating, airdrop snapshots.

NFT API

- Features:
- Media assets, metadata, sales, owners, trait & attribute filters, thumbnails & previews.
- Use cases:
- [NFT galleries & marketplaces](#)
- , real world asset (RWA) tracking, token gating.

DEX API

- Features:
- Positions, rewards, pool and token details for major DEX protocols.
- Use cases:
- [Analytics dashboards](#)
- , leaderboards, reward calculators.

Cross-Chain Activity API

- Features:
- Single API call to fetch a list of active chains and the latest transaction date on each for an address.
- Use cases:
- [App onboarding](#)
- .

Transactions API

- Features:
- All historical transactions with human-readable log events. Includes gas usage/spend summaries.
- Use cases:
- [Accounting and tax tools](#)
- , branded in-app [transaction receipts](#)
- .

Security API

- Features:
- NFT and ERC20 token allowances, including value-at-risk.
- Use cases:
- Revoke features in wallets, security applications.

Blockchain API

- Features:
- Block details, log events by contract address or topic hash, gas prices.
- Use cases:
- Custom block explorers.

Developer Tools

There are 3 primary developer tools for using the APIs:

1. [Unified API](#)
2.
 - enterprise-grade endpoints to use with any programming language. Switch blockchains with one path parameter.
3. `curl -X GET https://api.covalenthq.com/v1/arbitrum-mainnet/address/0xf977814e90da44bfa03b6295a0616a897441acec/balances_v2/ \`
4. `-H 'Content-Type: application/json' \`
5. `-u YOUR_API_KEY:`
6. [Client SDKs](#)
7.
 - official client libraries including TypeScript, Go and Python.
8. TypeScript example:
9. `npm install @covalenthq/client-sdk`
10. or:
11. `yarn add @covalenthq/client-sdk`
12. `import { CovalentClient } from "@covalenthq/client-sdk";`
13. `(async () => {`
14. `try {`
15. `const client = new CovalentClient("YOUR_API_KEY");`
16. `const transactions = client.TransactionService.getAllTransactionsForAddress("arbitrum-mainnet", "0xf977814e90da44bfa03b6295a0616a897441acec");`
17. `for await (const tx of transactions) {`
18. `console.log("tx", tx);`
19. `}`
20. `} catch (error) {`
21. `console.log(error.message);`
22. `}`
23. `})();`
24. [GoldRush Kit](#)
25.
 - beautifully designed React components for your dApp frontend

Get started

- [API Key](#)
- - sign up for free
- [Docs](#)
- - comprehensive knowledge base for all things Covalent
- [Guides](#)
- - learn how to build for various use cases and expand your onchain knowledge [Edit this page](#) Last updated on Mar 27, 2024 [Previous](#) [Contribute third-party docs](#) [Next](#) [Crossmint](#)