
title: Backend API libraries description: An introduction to the Ethereum client APIs that let you interact with the blockchain from your application. lang: en

In order for a software application to interact with the Ethereum blockchain (i.e. read blockchain data and/or send transactions to the network), it must connect to an Ethereum node.

For this purpose, every Ethereum client implements the [JSON-RPC](#) specification, so there are a uniform set of [methods](#) that applications can rely on.

If you want to use a specific programming language to connect with an Ethereum node, there are many convenience libraries within the ecosystem that make this much easier. With these libraries, developers can write intuitive, one-line methods to initialize JSON-RPC requests (under the hood) that interact with Ethereum.

Prerequisites {#prerequisites}

It might be helpful to understand the [Ethereum stack](#) and [Ethereum clients](#).

Why use a library? {#why-use-a-library}

These libraries abstract away much of the complexity of interacting directly with an Ethereum node. They also provide utility functions (e.g. converting ETH to Gwei) so as a developer you can spend less time dealing with the intricacies of Ethereum clients and more time focused on the unique functionality of your application.

Available libraries {#available-libraries}

Alchemy - *Ethereum Development Platform.*

- alchemy.com
- [Documentation](#)
- [GitHub](#)
- [Discord](#)

BlockCypher - *Ethereum Web APIs.*

- blockcypher.com
- [Documentation](#)

Blast by Bware Labs - *Decentralized APIs for Ethereum Mainnet and Testnets.*

- blastapi.io
- [Documentation](#)
- [Discord](#)

Infura - *The Ethereum API as a service.*

- infura.io
- [Documentation](#)
- [GitHub](#)

Cloudflare Ethereum Gateway.

- cloudflare-eth.com

Coinbase Cloud Node - *Blockchain Infrastructure API.*

- [Coinbase Cloud Node](#)
- [Documentation](#)

DataHub by Figment - *Web3 API services with Ethereum Mainnet and testnets.*

- [DataHub](#)
- [Documentation](#)

NFTPort - *Ethereum Data and Mint APIs.*

- [nftport.xyz](#)
- [Documentation](#)
- [GitHub](#)
- [Discord](#)

Nodesmith - *JSON-RPC API access to Ethereum Mainnet and testnets.*

- [nodesmith.io](#)
- [Documentation](#)

Ethercluster - *Run your own Ethereum API service supporting both ETH and ETC.*

- [ethercluster.com](#)

Chainstack - *Elastic and dedicated Ethereum nodes as a service.*

- [chainstack.com](#)
- [Documentation](#)
- [Ethereum API reference](#)

QuickNode - *Blockchain Infrastructure as a Service.*

- [quicknode.com](#)
- [Documentation](#)
- [Discord](#)

Python Tooling - *Variety of libraries for Ethereum interaction via Python.*

- [py.ethereum.org](#)
- [web3.py](#) [GitHub](#)
- [web3.py](#) [Chat](#)

web3j - *A Java/Android/Kotlin/Scala integration library for Ethereum.*

- [GitHub](#)
- [Docs](#)
- [Gitter](#)

Rivet - *Ethereum and Ethereum Classic APIs as a service powered by open source software.*

- [rivet.cloud](#)
- [Documentation](#)
- [GitHub](#)

Nethereum - *An open source .NET integration library for blockchain.*

- [GitHub](#)
- [Documentation](#)
- [Discord](#)

Tatum - *The ultimate blockchain development platform.*

- [Tatum](#)
- [GitHub](#)

- [Documentation](#)
- [Discord](#)

Watchdata - *Provide simple and reliable API access to Ethereum blockchain.*

- [Watchdata](#)
- [Documentation](#)
- [Discord](#)

Zmok - *Speed-oriented Ethereum nodes as JSON-RPC/WebSockets API.*

- [zmok.io](#)
- [GitHub](#)
- [Documentation](#)
- [Discord](#)

NOWNodes - *Full Nodes and Block Explorers.*

- [NOWNodes.io](#)
- [Documentation](#)

Moralis - *Enterprise-Grade EVM API Provider.*

- [moralis.io](#)
- [Documentation](#)
- [GitHub](#)
- [Discord](#)
- [Forum](#)

Chainbase - *All-in-one web3 data infrastructure for Ethereum.*

- [chainbase.com](#)
- [Documentation](#)
- [Discord](#)

GetBlock - *Blockchain-as-a-service for Web3 development*

- [GetBlock.io](#)
- [Documentation](#)

BlockPi - *Provide more efficient and fast RPC services*

- [blockpi.io](#)
- [Documentation](#)
- [GitHub](#)
- [Discord](#)

Tokenview - *The General Multi-Crypto Blockchain APIs Platform.*

- [services.tokenview.io](#)
- [Documentation](#)
- [GitHub](#)

Further reading {#further-reading}

Know of a community resource that helped you? Edit this page and add it!

Related topics {#related-topics}

- [Nodes and clients](#)
- [Development frameworks](#)

Related tutorials {#related-tutorials}

- [Set up Web3js to use the Ethereum blockchain in JavaScript](#)– *Instructions for getting web3.js set up in your project.*
- [Calling a smart contract from JavaScript](#)– *Using the DAI token, see how to call contracts function using JavaScript.*