

Getting started

1. Sign up to Infura

Sign up for an account on the [Infura website](#), enter your details, and select **CREATE A FREE ACCOUNT**.

To activate your account, verify your email address by clicking the link sent to your inbox.

API key restrictions Based on your plan, Infura allows for the following amount of API keys:

- Free plan - Allows one API key.
- Developer plan - Allows up to five API keys.
- Team plans and higher - No limit on the number of API keys.

For more information refer to the [Infura pricing information](#).

2. Configure your API key

Once verified, you'll be taken to the [Infura dashboard](#) where you can configure your auto-generated API key.

Infura will automatically generate the **My First Key** API key for you.

In the API key page that appears, select **My First Key** to access your API key settings. In the **All Endpoints** tab, select the networks that you wish to connect to, and select **Save Changes**.

In this example, we've selected the Ethereum mainnet and Linea mainnet networks.

3. Send requests

Use the API key when sending requests. The following examples interact with the Ethereum network by sending requests using HTTP.

info * All requests are **POST** * requests. * Replace **YOUR-API-KEY** * with your own unique API key. Use a tool such as the [Client Uniform Resource Locator \(curl\)](#) or [Postman](#) to make requests. We recommend using Postman if you're a Windows user.

3.1 Get the current block number

Retrieve the current block number.

- cURL
- Postman

`curl https://mainnet.infura.io/v3/YOUR-API-KEY \-X POST \-H "Content-Type: application/json" \--data '{"jsonrpc": "2.0", "id": 1, "method": "eth_blockNumber", "params": []}'` URL: `https://mainnet.infura.io/v3/YOUR-API-KEY` Request_Type: `POST` Body: `{ "jsonrpc": "2.0", "method": "eth_blockNumber", "params": [], "id": 1 }` You'll receive a response similar to:

`{"jsonrpc": "2.0", "id": 1, "result": "0xde5fba"}` The data returned is in hexadecimal, prefixed with `0x`. If you [convert](#) `de5fba` to decimal, the resulting number is `14573498`, representing the current block number at the time the query was made.

3.2 View the Ether balance of a specified contract

Check the balance of an Ethereum smart contract.

The example code checks the latest balance of the Ethereum Proof of Stake (PoS) contract.

- cURL
- Postman

`curl https://mainnet.infura.io/v3/API-KEY \-X POST \-H "Content-Type: application/json" \-d '{"jsonrpc": "2.0", "method": "eth_getBalance", "params": ["0x00000000219ab540356cBB839Cbe05303d7705Fa", "latest"], "id": 1}'` URL: `https://mainnet.infura.io/v3/YOUR-PROJECT-ID` Request_Type: `POST` Body: `{ "jsonrpc": "2.0", "method": "eth_getBalance", "params": ["0x00000000219ab540356cBB839Cbe05303d7705Fa", "latest"], "id": 1 }` You'll receive a result similar to:

`{"jsonrpc": "2.0", "id": 1, "result": "0x96c8e932f1e499c855045"}` This result is the hexadecimal value of the contract in Wei (the smallest denomination of Ether).

The decimal conversion of the result is 113929780000690000000000069 Wei, which equals 11392978.000069000000000069 Ether.

4. Secure your API key

Configure security settings in the `Settings` tab. This is optional.

Force API requests to include the API key secret and/or [JSON Web Tokens \(JWTs\)](#).

Use an allowlist to restrict API key access. See to the [allowlist documentation](#) for configuration instructions and best practices.

5. Use the Infura dashboard

The Infura dashboard shows performance and API usage data such as methods called, bandwidth usage, and most active usage times.

Optimize your app and better understand your users by [reviewing the dashboard](#) regularly.

6. Manage your account

Find additional settings in `Settings` to manage your account. You can:

- [Set notifications for daily limits](#)
- from the `Account`
- option.
- Manage your billing information in the `Billing`
- option.
- Manage [shared API keys](#)
- in the `Key Sharing`
- option.

Last updated on Apr 19, 2024 [Previous Infura API documentation](#) [Next Network endpoints](#)