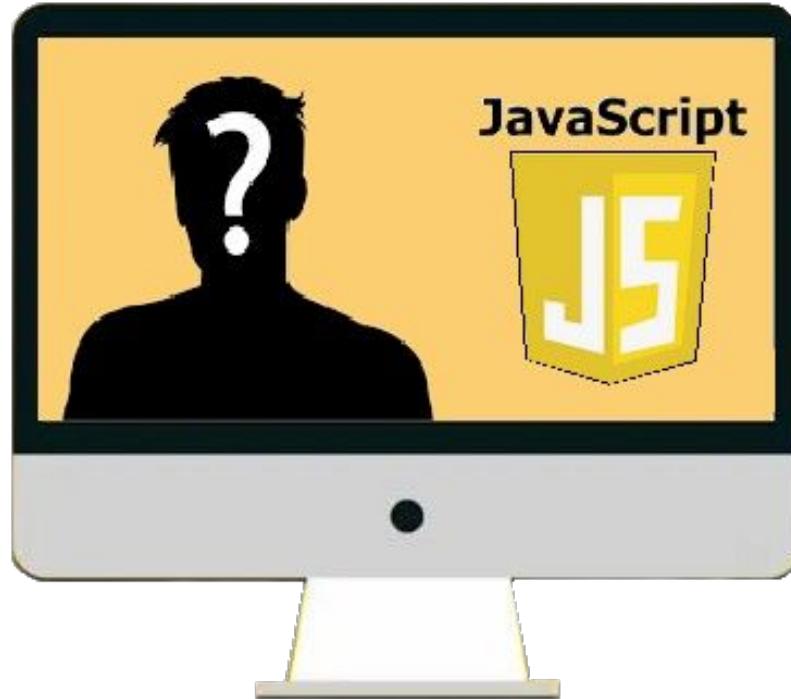


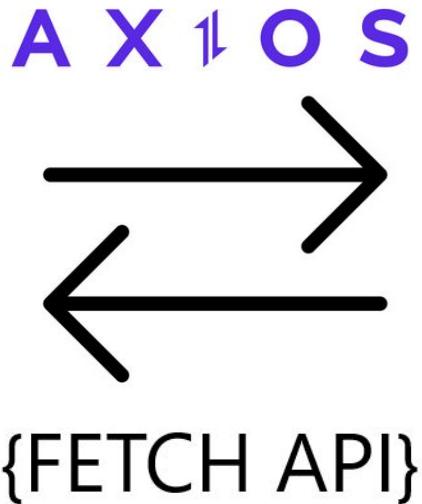
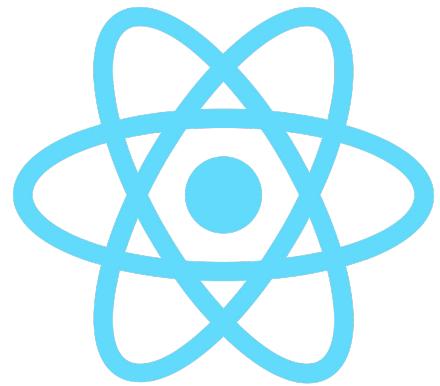
# Diseñando y consumiendo APIs eficientes en aplicaciones ReactJS



# SERGIO GARZÓN

- Desarrollador de Software
- Desarrollador de Videojuegos
- Docente de Programación





{FETCH API} A X I O S

Servicio de prueba, donde podemos consumir la API con datos ficticios

{JSON} Placeholder

Sitio web: <https://jsonplaceholder.typicode.com/>

{JSON} Placeholder

Check my new project  **MistCSS** write React components with 50% less code

JSONPlaceholder

Guide Sponsor this project Blog My JSON Server

# {JSON} Placeholder

Free fake and reliable API for testing and prototyping.

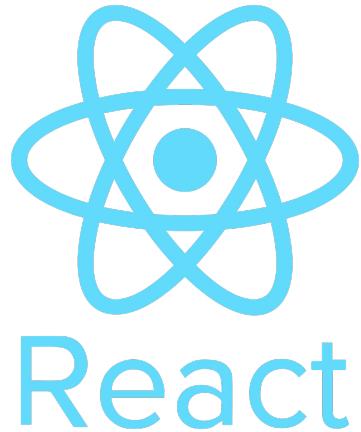
Powered by [JSON Server](#) + [LowDB](#).

Serving ~3 billion requests each month.

[Clone](#)

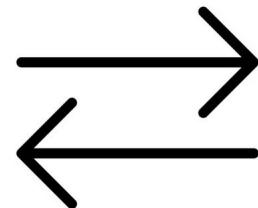
Sitio web: <https://jsonplaceholder.typicode.com/>

{JSON} Placeholder



{FETCH API}

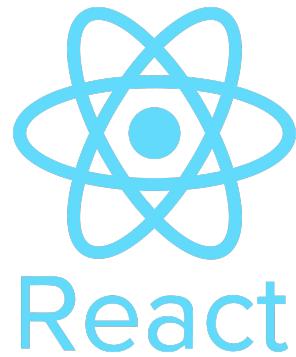
A X I O S



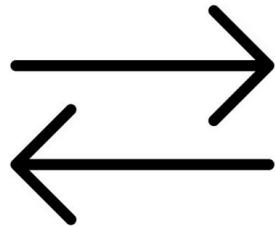
{JSON} Placeholder

{FETCH API} A X I O S

```
useEffect(() => {
  fetch('https://jsonplaceholder.typicode.com/users')
    .then(response => response.json())
    .then(data => setData(data))
    .catch(error => console.error('Error:', error));
}, []);
```



A X I O S  
{FETCH API}



JSON Server



Sitio web: <https://www.npmjs.com/package/json-server>

JSON Server

# JSON Server

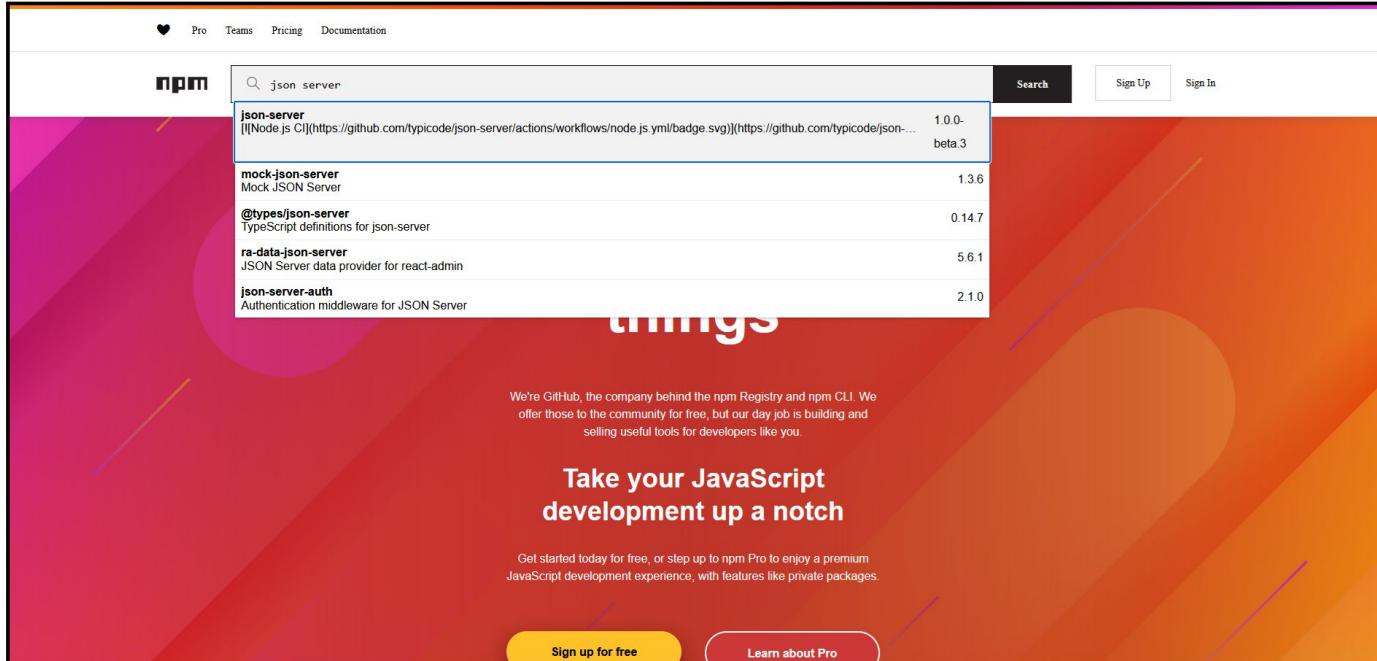
JSON  
Server



Sitio web: <https://www.npmjs.com/package/json-server>

JSON Server

# JSON Server



Sitio web: <https://www.npmjs.com/package/json-server>

JSON Server

# JSON Server

The screenshot shows the npmjs.com package page for 'json-server'. At the top, there's a navigation bar with links for 'Pro', 'Teams', 'Pricing', and 'Documentation'. Below that is the npm logo and a search bar with the placeholder 'Search packages'. To the right of the search bar are 'Search', 'Sign Up', and 'Sign In' buttons.

The main content area starts with the package name 'json-server' in bold, followed by a 'TS' badge indicating TypeScript support. Below this, it shows the version '1.0.0-beta.3', the status 'Public', and the publication date 'Published 5 months ago'. There are tabs for 'Readme' (selected), 'Code' (Beta), '13 Dependencies', '403 Dependents', and '154 Versions'.

The 'Readme' tab contains the project title 'json-server' in bold, a green 'Node.js CI passing' badge, and a note: '[!IMPORTANT] Viewing beta v1 documentation – usable but expect breaking changes. For stable version, see [here](#)'. It also features a message from the maintainer: 'Hey! Using React, Vue or Astro? Check my new project [MistCSS](#) to write 50% less code.'

The 'Install' section shows the command 'npm i json-server' and a purple progress bar indicating the package is installed.

The 'Usage' section instructs users to 'Create a db.json OR db.json5 file'.

On the right side, there's a sidebar with sections for 'Install' (with a command input field), 'Repository' (link to [github.com/typicode/json-server](#)), 'Homepage' (link to [github.com/typicode/json-server#r...](#)), 'Weekly Downloads' (284.193), 'Version' (1.0.0-beta.3), 'License' (SEE LICENSE I...), 'Unpacked Size' (34.4 kB), 'Total Files' (12), 'Issues', and 'Pull Requests'.

Sitio web: <https://www.npmjs.com/package/json-server>

JSON Server



APICURIO



# ¿Que es APICURIO?





APICURIO

APICURIO **STUDIO**

APICURIO **REGISTRY**

APICURIO **DATA MODELS**

APICURIO **APICURITO**



All things API, because APIs are the cure

 APICURIO STUDIO

Apicurio Studio

Design beautiful, functional APIs with zero coding, using OpenAPI or AsyncAPI

 APICURIO REGISTRY

Apicurio Registry

High performance, runtime registry for schemas and API designs

 APICURIO DATA MODELS

Apicurio Data Models

Data modeling library for OpenAPI and AsyncAPI specifications

 APICURIO APICURITO

Apicurito

Mini embedded version of Apicurio Studio - all editing, all the time

---

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Code is open source and released under [Apache License, v2.0](#).

Sponsored by  Red Hat

Sitio web: <https://www.apicur.io/>



# Apicurio es:

-  open source (De código abierto)
- Sponsoreado por  **Red Hat**
- Fue creado por Eric Wittmann,  
desarrollador de software  
en  **Red Hat**
- Licencia Apache License 2.0





Apicurio

Overview Repositories 75 Projects 1 Packages People 7

Follow

You can now follow organizations  
Organization activity like new discussions, sponsorships, and repositories will appear in your [dashboard feed](#).

OK, got it!

README.md

## Apicurio Community

The Apicurio community strives to provide high quality open source software in the API and Schema domains. Apicurio is an umbrella community (think Hibernate) containing multiple related projects. Some of our top level projects include:

- [Apicurio Studio](#) (API/Schema Designer)
- [Apicurio Registry](#) (API/Schema Runtime Registry)
- [Apicurio Data Models](#) (multi-language library to read/write/validate OpenAPI/AsyncAPI)

Pinned

[apicurio-studio](#) Public

Open Source API Design

TypeScript ⭐ 1k ⚡ 503

[apicurio-registry](#) Public

An API/Schema registry - stores APIs and Schemas.

Java ⭐ 618 ⚡ 271

[apicurio-data-models](#) Public

A library (Java and JavaScript compatible) to implement data models for OpenAPI and AsyncAPI.

Java ⭐ 57 ⚡ 38

Top languages

Java TypeScript Go JavaScript  
HTML

Report abuse

A small version of the Apicurio logo, which consists of a stylized lowercase 'a' with a red and black gradient.

Repo: <https://github.com/Apicurio>



Apicurio / apicurio-studio

Type  to search

<> Code Issues 354 Pull requests 2 Discussions Actions Security Insights

apicurio-studio Public Watch 41 Fork 503 Star 1k

main 12 Branches 85 Tags Go to file Add file <> Code About

EricWittmann Remove redundant repo from notification message ✓ 592875e · 4 days ago 421 Commits

.assets Added a README. 11 months ago

.github Remove redundant repo from notification message 4 days ago

docs-playbook Bump antora-site-generator-lunr 3 weeks ago

docs minimal api-controller-docs 3 months ago

ui Update dependency react-router-dom to v6.29.0 4 days ago

.gitignore docs: initial Apicurio Studio documentation and install exempl... 10 months ago

CONTRIBUTING.md Initial import and rebranding of apicurio-api-designer as apic... 11 months ago

LICENSE Initial import and rebranding of apicurio-api-designer as apic... 11 months ago

Open Source API Design  
www.apicur.io/studio/  
typescript angular2 swagger openapi  
developer-tools api-design  
Readme Apache-2.0 license  
Code of conduct  
Activity Custom properties  
1k stars 41 watching 503 forks

Repo: <https://github.com/apicurio/apicurio-studio>





# APICURIO STUDIO

Para crear y editar APIs, utilizando las especificaciones:



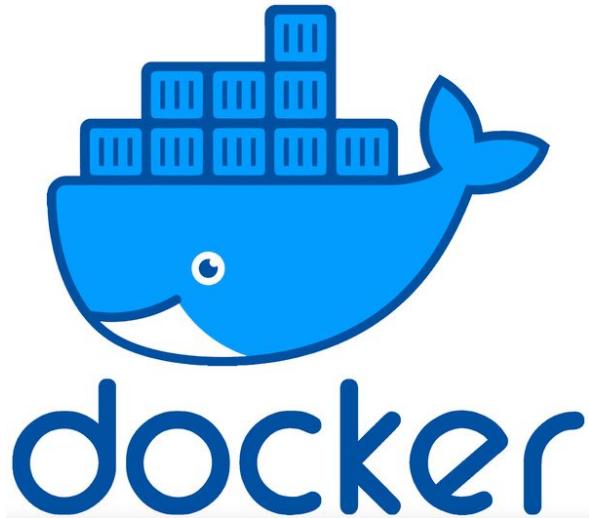
OpenAPI



AsyncAPI



# INSTALACIÓN



podman



# INSTALACIÓN



**APICURIO**

STUDIO REGISTRY DATA MODELS APICURITO BLOG CONTACT FORK

All things API, because APIs are the cure

**APICURIO STUDIO**  
Apicurio Studio  
Design beautiful, functional APIs with zero coding, using OpenAPI or AsyncAPI

**APICURIO REGISTRY**  
Apicurio Registry  
High performance, runtime registry for schemas and API designs

**APICURIO DATA MODELS**  
Apicurio Data Models  
Data modeling library for OpenAPI and AsyncAPI specifications

**APICURIO APICURITO**  
Apicurito  
Mini embedded version of Apicurio Studio - all editing, all the time

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Code is open source and released under [Apache License, v2.0](#).

Sponsored by Red Hat

Sitio web: <https://www.apicur.io/>



# INSTALACIÓN



The screenshot shows the Apicurio Studio website homepage. At the top, there's a navigation bar with links for STUDIO, REGISTRY, DATA MODELS, APICURITO, BLOG, CONTACT, and FORK. The main title "APICURIO STUDIO" is prominently displayed with a red and white icon. Below the title, a subtitle reads "Design beautiful, functional APIs with zero coding, using OpenAPI or AsyncAPI". A "Download" button and a GitHub link are visible. A note indicates that version 0.2 is deprecated and points to version 0.2. A sidebar on the left contains links for About, Getting Started, Documentation, Source Code, Issue Tracker, and Container Images. The main content area features sections for "What is Apicurio Studio?", "Apicurio Studio Key Features" (Web-Based, Code-Optional Design, Open Source), and a note about the deprecated version 0.2.

APICURIO STUDIO

Design beautiful, functional APIs  
with zero coding, using OpenAPI or AsyncAPI

Download Version: 1.0.0.Beta1 Clone or fork on GitHub

Looking for Apicurio Studio 0.2? It's been [deprecated](#), but you can still [go to Studio 0.2](#)

About

Getting Started

Documentation

Source Code

Issue Tracker

Container Images

What is Apicurio Studio?

Apicurio Studio is a web-based API design suite for contract-first REST API development. Apicurio Studio enables you to visually design and collaborate on APIs separately from their implementation.

Apicurio Studio Key Features

Web-Based

Code-Optional Design

Open Source

Design your OpenAPI and AsyncAPI APIs in a browser-based application -

Don't know the OpenAPI or AsyncAPI specification inside and out? Now you

Apicurio Studio is fully open source, hosted on GitHub and actively

Sitio web: <https://www.apicur.io/studio/>



# INSTALACIÓN



**APICURIO**

STUDIO REGISTRY DATA MODELS APICURITO BLOG CONTACT FORK

**Get Started with Apicurio Studio**

The easiest way to get started with Apicurio Studio is by using Docker to quickly start up an in-memory server.

Note: This server is non-persistent, so don't use this for production!

**Prerequisites**

- You have [Docker](#) (or [Podman](#)) installed.

**Pull the Apicurio Studio images**

Two container images are needed to run Apicurio Studio:

- Backend: [apicurio/apicurio-studio](#)
- User Interface: [apicurio/apicurio-studio-ui](#)

Pull the Docker images from Quay as follows:

```
docker pull quay.io/apicurio/apicurio-studio:1.0.0.Beta1
docker pull quay.io/apicurio/apicurio-studio-ui:1.0.0.Beta1
```

**Run the Apicurio Studio Images**

Apicurio Studio supports different storage options, but the quickest way to get started is to use the non-persistent in-memory image with no external dependencies. See the documentation to learn how to run a persistent server (e.g. using PostgreSQL).

Run both the [apicurio-studio](#) and [apicurio-studio-ui](#) Docker images as follows:

```
docker run -it -p 8888:8888 quay.io/apicurio/apicurio-studio:1.0.0.Beta1
docker run -it -p 8888:8888 quay.io/apicurio/apicurio-studio-ui:1.0.0.Beta1
```

**Open the Apicurio Studio web console**

Open the [Apicurio Studio web console](#) in your browser to start designing your own APIs and Schemas!

Sitio web: <https://www.apicur.io/studio/getting-started/>



# INSTALACIÓN



```
Terminal

Windows PowerShell
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

Instale la versión más reciente de PowerShell para obtener nuevas características y mejoras. https://aka.ms/PSWindows

PS C:\Users\Notebook> docker pull quay.io/apicurio/apicurio-studio:1.0.0.Beta1
1.0.0.Beta1: Pulling from apicurio/apicurio-studio
458deefb34fd: Pull complete
d480ec9fb6a6: Pull complete
e0548c934524: Pull complete
Digest: sha256:6bd0a5e169e89d4efb6ec3f3bbe3a0a98ff92030da06d574f915852f36486713
Status: Downloaded newer image for quay.io/apicurio/apicurio-studio:1.0.0.Beta1
quay.io/apicurio/apicurio-studio:1.0.0.Beta1
PS C:\Users\Notebook>
```

Comando: “*docker pull quay.io/apicurio/apicurio-studio:1.0.0.Beta1*”



# INSTALACIÓN

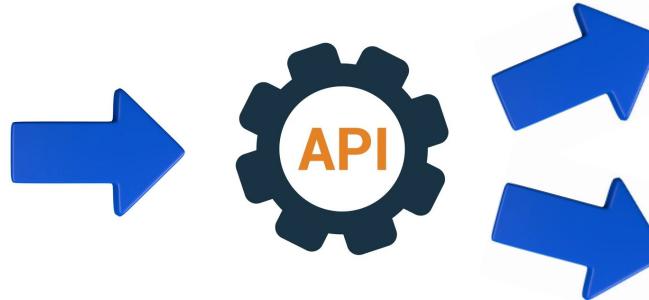
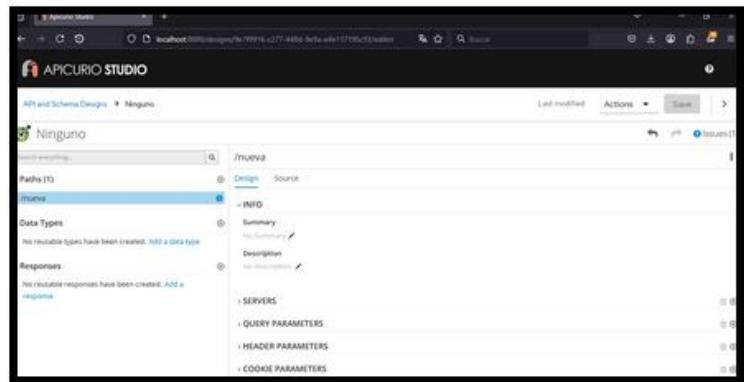


Terminal

```
PS C:\Users\Notebook> docker pull quay.io/apicurio/apicurio-studio-ui:1.0.0.Beta1
1.0.0.Beta1: Pulling from apicurio/apicurio-studio-ui
c2650fe947f6: [====] 50ccdb01751a: Download complete
c872c5fda3e4: Downloading [=====] 2282fb010b54: Waiting
56b68a9f2f4a: Waiting
692fd66a3fb9: Waiting
da551a02228e: Waiting
fbc37add2bd5: Waiting
fedf334e51d6: Waiting
d3cbb9f218f1: Waiting
d6d2ab831ac2: Waiting
a720cddef721: Waiting
```

Comando: “*docker pull quay.io/apicurio/apicurio-studio-ui:1.0.0.Beta1*”





{JSON}

YAML



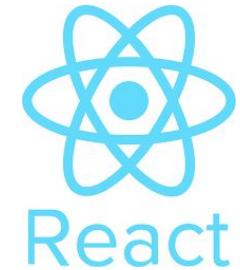
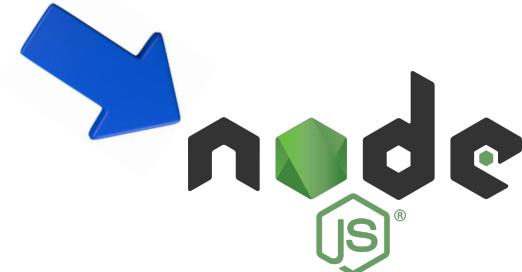
# OpenAPI Generator

{JSON}

YAML



OpenAPI  
Generator



Sitio web: <https://openapi-generator.tech/>



# OpenAPI Generator

The screenshot shows the homepage of the OpenAPI Generator website. The header includes navigation links for "Getting Started", "Generators", "Roadmap", "FAQ", "Team", "Blog", and "API". A search bar is located in the top right corner. The main content area has a green header with the title "OpenAPI Generator" and the subtitle "Generate clients, servers, and documentation from OpenAPI 2.0/3.x documents". Below this are four buttons: "Try It Out", "Install", "Generators", "Customization", and "Integrations". A "Sponsors" section follows, featuring a message encouraging companies to become sponsors and a list of bronze sponsors' logos.

OpenAPI Generator

Generate clients, servers, and documentation from OpenAPI 2.0/3.x documents

Try It Out   Install

Generators   Customization   Integrations

Sponsors

If you find OpenAPI Generator useful, please consider asking your company to [become a sponsor](#).

You can also individually sponsor the project by [becoming a backer](#).

Thank you to our bronze sponsors!

NamSor   b   =   Datadog   THALES   XPEXA   f   ve   eSign   burkert   dm   bileto   d   dm TECH   adyen   FORNED   g   tw

ITSLINK   DESIGNLI   itM   Kong   dm

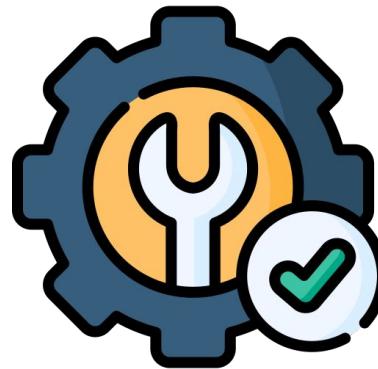
Sitio web: <https://openapi-generator.tech/>



# OpenAPI Generator



OpenAPI  
Generator



Sitio web: <https://www.npmjs.com/package/@openapitools/openapi-generator-cli>

# OpenAPI Generator

The screenshot shows the npmjs.com package page for `@openapitools/openapi-generator-cli`. The page includes the following details:

- Version:** 2.16.3 (Published a month ago)
- Dependencies:** 18 Dependencies, 157 Dependents
- Versions:** 715 Versions
- Install Command:** `> npm i @openapitools/openapi-generator`
- Repository:** [github.com/OpenAPITools/openapi-generator](https://github.com/OpenAPITools/openapi-generator)
- Homepage:** [github.com/OpenAPITools/openapi-generator](https://github.com/OpenAPITools/openapi-generator)
- Funding:** Fund this package
- Weekly Downloads:** 572.610
- Version:** 2.16.3
- License:** Apache-2.0
- Unpacked Size:** 84.4 kB
- Total Files:** 4

The page also features a "Readme" tab, a "Code" tab (Beta), and a "Slack" button.

Sitio web: <https://www.npmjs.com/package/@openapitools/openapi-generator-cli>





Para almacenar, gestionar y compartir artefactos relacionados con APIs y esquema de datos.



# INSTALACIÓN

A screenshot of the Apicurio Registry website. At the top, there is a navigation bar with links: STUDIO, REGISTRY (which is highlighted in red), DATA MODELS, APICURITO, BLOG, CONTACT, and FORK. Below the navigation bar, the Apicurio logo (a stylized 'A') and the text "APICURIO REGISTRY" are displayed. A large subtitle below reads "High performance, runtime registry for API designs and schemas". In the center, there is a "Download" button with a file icon, followed by the text "Version: 3.0.6" and a link "Clone or fork on GitHub". A blue banner at the bottom states: "Looking for Apicurio Registry 2.x? It's been deprecated, but you can still find it here →". At the very bottom of the page, there are links for "About" and "What is Apicurio Registry?".

STUDIO REGISTRY DATA MODELS APICURITO BLOG CONTACT FORK

APICURIO REGISTRY

High performance, runtime registry for API designs and schemas

Download Version: 3.0.6 Clone or fork on GitHub

Looking for Apicurio Registry 2.x? It's been [deprecated](#), but you can still [find it here](#) →

About What is Apicurio Registry?

Sitio web: <https://www.apicur.io/studio/>



# INSTALACIÓN



The screenshot shows the Apicurio Registry website's "About" page. At the top, there is a navigation bar with links for STUDIO, REGISTRY (which is highlighted in red), DATA MODELS, APICURITO, BLOG, CONTACT, and FORK. Below the navigation bar, there is a sidebar with links for About, Getting Started, Documentation, Source Code, Issue Tracker, and Container Images. The main content area has a heading "Get Started with Apicurio Registry" and text explaining how to get started using Docker. It includes two "Note" sections: one about the separate container images for the back end and UI, and another about the non-persistent nature of the server. There is also a "Prerequisites" section with a bullet point about Docker or Podman, and a "Back End Server (REST API)" section with instructions to pull the Apicurio Registry image from Docker Hub.

Get Started with Apicurio Registry

The easiest way to get started with Apicurio Registry is by using Docker to quickly start up an in-memory server and UI.

**Note:** Apicurio Registry's back end and UI are now separate container images.

**Note:** this server is non-persistent, so don't use it for production!

Prerequisites

- You have [Docker](#) (or [Podman](#)) installed.

**Back End Server (REST API)**

Pull the Apicurio Registry image

Pull the [apicurio-registry](#) Docker image from Docker Hub as follows:

Sitio web: <https://www.apicur.io/studio/>



# INSTALACIÓN



The screenshot shows a terminal window titled "Terminal" with the subtitle "s/PSWindows". The command "docker pull apicurio/apicurio-registry:3.0.6" is being executed. The output shows the progress of pulling the image, including extracting and downloading layers. The terminal interface includes a search bar, a copy/paste icon, a trash bin icon, and a downward arrow icon. At the bottom, system status information is displayed: RAM 2.86 GB, CPU 39.66%, Disk 1018.66 GB avail. of 1081.10 GB. There are also "Terminal" and "New" buttons at the bottom right.

```
PS C:\Users\Notebook> docker pull apicurio/apicurio-registry:3.0.6
3.0.6: Pulling from apicurio/apicurio-registry
e0348fdb2685: Extracting  4.686MB/39.49MB
5c30f80cf95a: Downloading  43.47MB/90.56MB
f1c3e03b4a2f: Downloading  66.54MB/103.4MB
eb4028915976: Waiting
[]

RAM 2.86 GB CPU 39.66% Disk 1018.66 GB avail. of 1081.10 GB
```

> Terminal

Comando: “*docker pull apicurio/apicurio-registry:3.0.6*”



# INSTALACIÓN



Terminal

```
PS C:\Users\Notebook> docker pull apicurio/apicurio-registry-ui:3.0.6
3.0.6: Pulling from apicurio/apicurio-registry-ui
f9a85d45dcf9: Pulling fs layer
fd1a35e7b735: Pulling fs layer
4991f2fb225b: Pulling fs layer
95fa56b2f92f: Waiting
b1956be410a7: Waiting
4991f2fb225b: Downloading  30.12MB/70.23MB
```

RAM 2.69 GB CPU 37.07% Disk 1018.12 GB avail. of 1081.10 GB

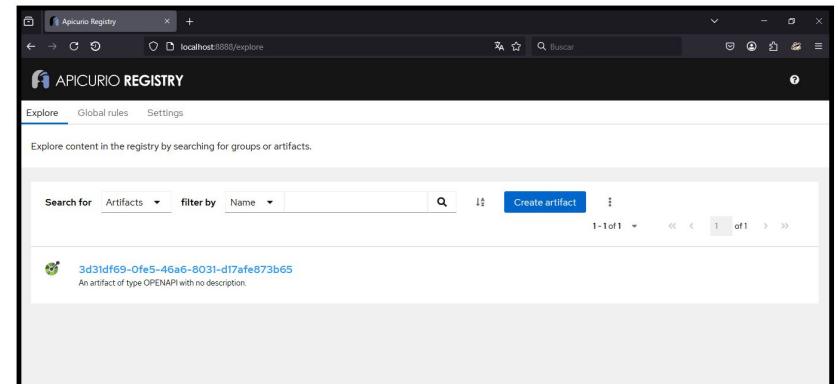
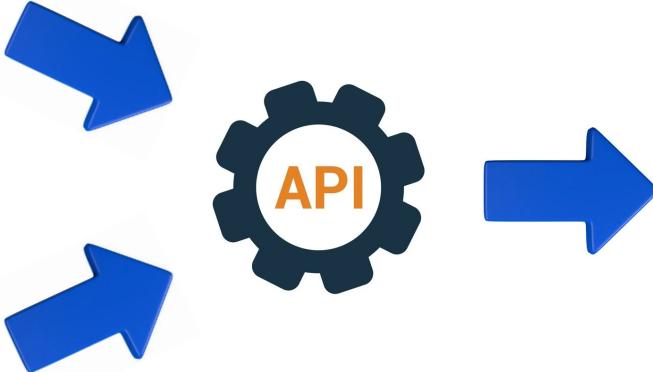
>\_ Terminal New

Comando: “*docker pull apicurio/apicurio-registry-ui:3.0.6*”



# APICURIO REGISTRY

{JSON}



# SDK DE APICURIO

¿Viene algun SDK  
de  APICURIO  
para  JavaScript ?



# SDK DE APICURIO

Si obvio, que vienen



# SDK DE APICURIO

Y el 1ero se llama  
“Apicurio Registry Client”



Sitio web: <https://www.npmjs.com/package/apicurio-registry-client>



# SDK DE APICURIO

**Apicurio  
Registry  
Client**



Sitio web: <https://www.npmjs.com/package/apicurio-registry-client>



# SDK DE APICURIO

**El 2do se llama  
“Apicurio Registry  
TypeScript”**

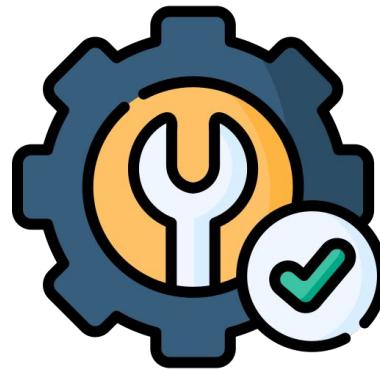


Sitio web: <https://www.npmjs.com/package/@apicurio/apicurio-registry-sdk>



# SDK DE APICURIO

Apicurio  
Registry  
TypeScript



Sitio web: <https://www.npmjs.com/package/@apicurio/apicurio-registry-sdk>



# SDK DE APICURIO

## ¿Cual es la diferencia?

- **Apicurio Registry Client**, es para proyectos de JavaScript y TypeScript. Pero esta deprecado.
- **Apicurio Registry Typescript**, está más orientado a aplicaciones TypeScript, más flexible. Pero esta en version beta.



# SDK DE APICURIO

También desde el mismo Apicurio Registry se puede generar el SDK para distintos lenguajes de programación, incluyendo TypeScript.

Este SDK sirve para interactuar con el backend

Los otros sirven para interactuar con Apicurio Registry.



# SDK DE APICURIO

 APICURIO **REGISTRY**



 OpenAPI  
Generator



**SDK**



 **TS**



# SDK DE APICURIO

## ¿Cual es la diferencia con los anteriores?

Los otros SDK ya vienen armados, preconfigurados, mientras que este último no, y para que funcione hay que realizar varias configuraciones.





¿ ¿ ¿ Preguntas ???



# Muchas Gracias



[Sergio Gabriel Garzón](#)



[sergiog90arg](#)

