

# Paso a paso para crear y desplegar una “full fake REST API”

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Creación y configuración del JSON – SERVER y  
despliegue en Railways

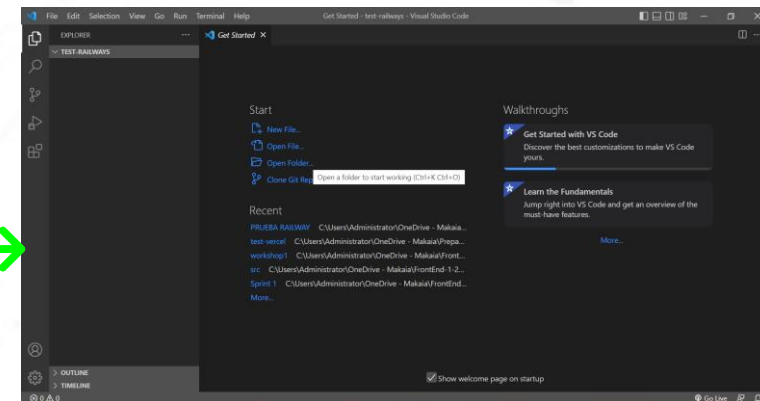
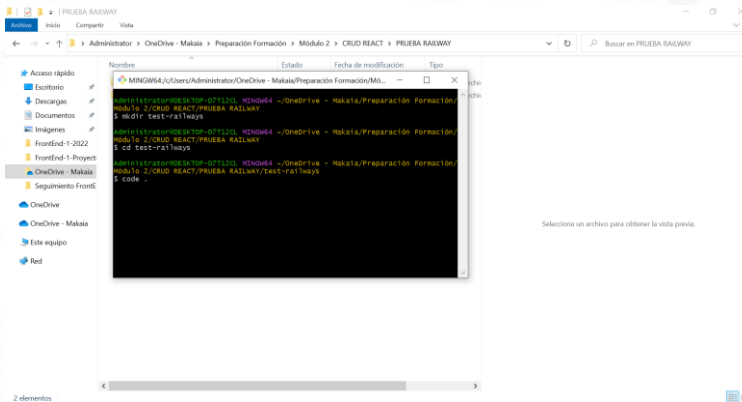
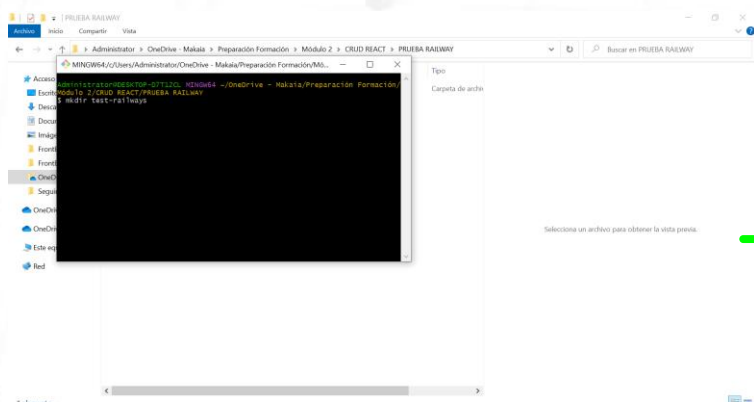
W W W . M A K A I A . O R G



# Railway

## *Paso a paso*

1. Crear la carpeta del proyecto (esta carpeta debe ser exclusiva para albergar los datos del backend) y abrirla en VSC



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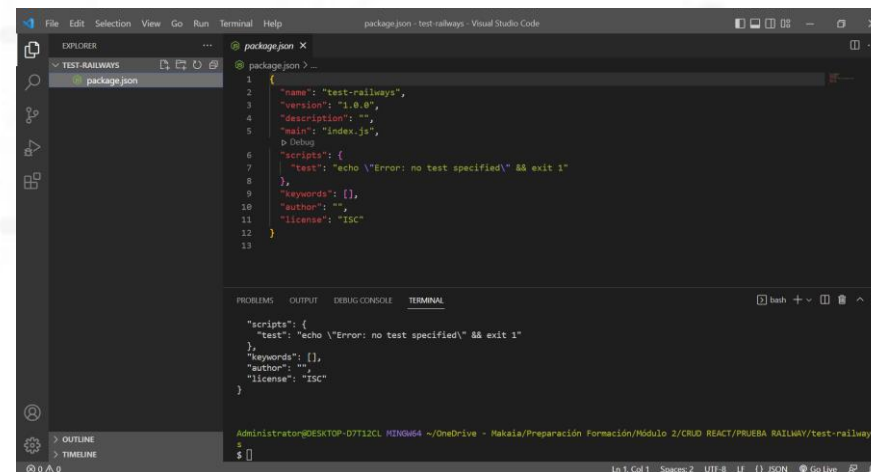
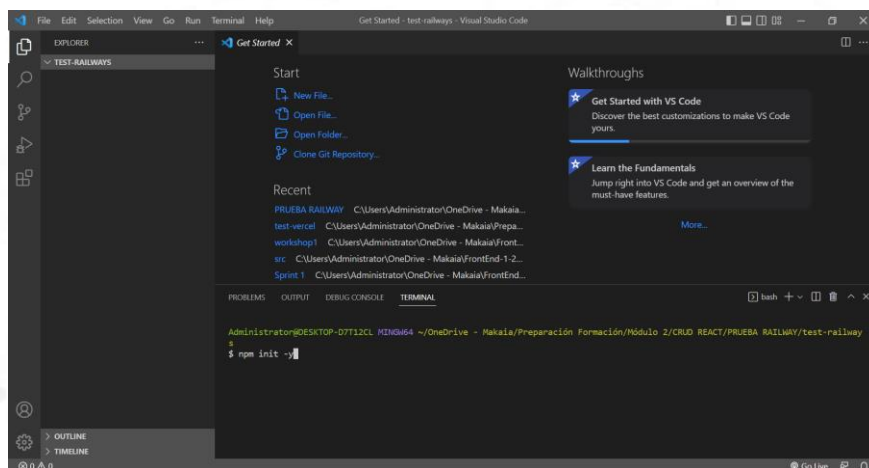
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# Railway

## *Paso a paso*

2. Abrir una nueva terminal
3. Inicializar un proyecto (package.json) con todas las configuraciones por defecto corriendo el comando `npm init -y`





# Railway

## *Paso a paso*

4. Instalar el json-server en el proyecto con el comando `npm i json-server`. Se creará el archivo `package-lock.json` y la carpeta `node_modules`.

The screenshot shows the Visual Studio Code interface with the `package.json` file open. The file contains the following content:

```
1 {
2   "name": "test-railways",
3   "version": "1.0.0",
4   "description": "",
5   "main": "index.js",
6   "scripts": {
7     "test": "echo \\\"Error: no test specified\\\" && exit 1"
8   },
9   "keywords": [],
10  "author": "",
11  "license": "ISC"
12 }
13
```

The Explorer sidebar on the left shows the file structure with `package.json` selected. The bottom panel shows the terminal with the command `npm i json-server` and its output.



The screenshot shows the Visual Studio Code interface after installing `json-server`. The `package.json` file now includes the `dependencies` section:

```
1 {
2   "name": "test-railways",
3   "version": "1.0.0",
4   "description": "",
5   "main": "index.js",
6   "scripts": {
7     "test": "echo \\\"Error: no test specified\\\" && exit 1"
8   },
9   "keywords": [],
10  "author": "",
11  "license": "ISC",
12  "dependencies": {
13    "json-server": "^0.17.0"
14  }
15 }
16
```

The Explorer sidebar on the left now shows the `node_modules` folder and the `package-lock.json` file. The bottom panel shows the terminal with the command `npm i json-server` and its output, which includes information about the installed package and the creation of `package-lock.json`.



# Railway

*Paso a paso*

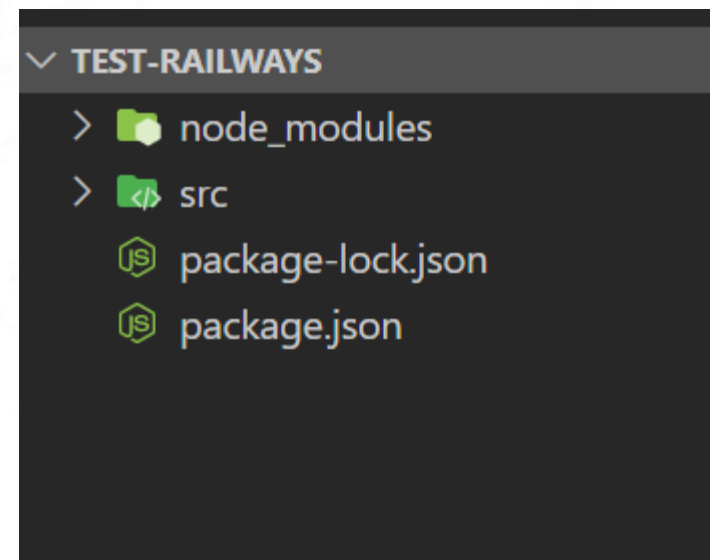
5. Crear una carpeta llamada src en la raíz del proyecto.

The screenshot shows the Visual Studio Code interface. The Explorer panel on the left shows the project structure with folders 'node\_modules' and 'src', and files 'package-lock.json' and 'package.json'. The main editor shows the 'package.json' file with the following content:

```
1 {
2   "name": "test-railways",
3   "version": "1.0.0",
4   "description": "",
5   "main": "index.js",
6   "scripts": {
7     "test": "echo \\\"Error: no test specified\\\" && exit 1"
8   },
9   "keywords": [],
10  "author": "",
11  "license": "ISC",
12  "dependencies": {
13    "json-server": "^0.17.0"
14  }
15 }
```

The terminal window at the bottom shows the following commands and output:

```
Administrator@DESKTOP-D7T12CL MINGW64 ~/OneDrive - Makaia/Preparación Formación/Módulo 2/CRUD REACT/PRUEBA RAILWAY/test-railway
$ mkdir src
Administrator@DESKTOP-D7T12CL MINGW64 ~/OneDrive - Makaia/Preparación Formación/Módulo 2/CRUD REACT/PRUEBA RAILWAY/test-railway
$
```





# Railway

*Paso a paso*

6. Crear el archivo index.js dentro de la carpeta src.

The screenshot shows the Visual Studio Code interface with the `package.json` file open in the editor. The file content is as follows:

```
1 {
2   "name": "test-railways",
3   "version": "1.0.0",
4   "description": "",
5   "main": "index.js",
6   "scripts": {
7     "test": "echo \\\"Error: no test specified\\\" && exit 1"
8   },
9   "keywords": [],
10  "author": "",
11  "license": "ISC",
12  "dependencies": {
13    "json-server": "^0.17.0"
14  }
15 }
16
```

The terminal at the bottom shows the following commands and output:

```
To address all issues, run:
  npm audit fix

Run 'npm audit' for details.

Administrator@DESKTOP-D7T12CL MINGW64 ~/OneDrive - Makaia/Preparación Formación/Módulo 2/CRUD REACT/PRUEBA RAILWAY/test-railway
$ mkdir src

Administrator@DESKTOP-D7T12CL MINGW64 ~/OneDrive - Makaia/Preparación Formación/Módulo 2/CRUD REACT/PRUEBA RAILWAY/test-railway
$
```



The screenshot shows the Visual Studio Code interface with the `index.js` file open in the editor. The file content is as follows:

```
1
```

The terminal at the bottom shows the following commands and output:

```
To address all issues, run:
  npm audit fix

Run 'npm audit' for details.

Administrator@DESKTOP-D7T12CL MINGW64 ~/OneDrive - Makaia/Preparación Formación/Módulo 2/CRUD REACT/PRUEBA RAILWAY/test-railway
$ mkdir src

Administrator@DESKTOP-D7T12CL MINGW64 ~/OneDrive - Makaia/Preparación Formación/Módulo 2/CRUD REACT/PRUEBA RAILWAY/test-railway
$
```



# Railway

## *Paso a paso*

7. Dentro de la carpeta src, también crear una carpeta llamada data y dentro de data, crear el archivo db.json.

```
File Edit Selection View Go Run Terminal Help
indexjs - test-railways - Visual Studio Code

EXPLORER
TEST-RAILWAYS
  node_modules
  src
    index.js
  package-lock.json
  package.json

TERMINAL
To address all issues, run:
  npm audit fix

Run 'npm audit' for details.
Administrator@DESKTOP-D7712CL MINGW64 ~/OneDrive - Makaia/Preparación Formación/Módulo 2/CRUD REACT/PRUEBA RAILWAY/test-railway
$ mkdir src
Administrator@DESKTOP-D7712CL MINGW64 ~/OneDrive - Makaia/Preparación Formación/Módulo 2/CRUD REACT/PRUEBA RAILWAY/test-railway
$
```



```
File Edit Selection View Go Run Terminal Help
indexjs - test-railways - Visual Studio Code

EXPLORER
TEST-RAILWAYS
  node_modules
  src
    data
      db.json
    index.js
  package-lock.json
  package.json

TERMINAL
To address all issues, run:
  npm audit fix

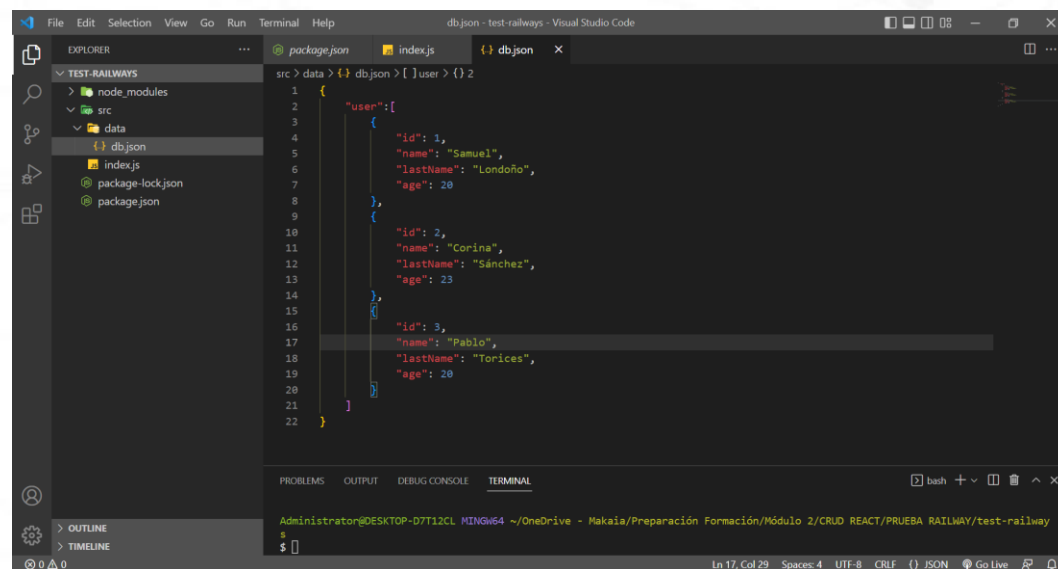
Run 'npm audit' for details.
Administrator@DESKTOP-D7712CL MINGW64 ~/OneDrive - Makaia/Preparación Formación/Módulo 2/CRUD REACT/PRUEBA RAILWAY/test-railway
$ mkdir src
Administrator@DESKTOP-D7712CL MINGW64 ~/OneDrive - Makaia/Preparación Formación/Módulo 2/CRUD REACT/PRUEBA RAILWAY/test-railway
$
```



# Railway

*Paso a paso*

8. Dentro del archivo db.json., definir los datos json correspondientes:



```
1  src > data > db.json > [ ] user > {} 2
2
3
4  {
5    "id": 1,
6    "name": "Samuel",
7    "lastName": "Londoño",
8    "age": 20
9  },
10
11  {
12    "id": 2,
13    "name": "Corina",
14    "lastName": "Sánchez",
15    "age": 23
16  },
17
18  {
19    "id": 3,
20    "name": "Pablo",
21    "lastName": "Torices",
22    "age": 20
23  }
24 }
```





# Railway

*Paso a paso*

9. En el index.js colocar el siguiente código:

```
1 const jsonServer = require('json-server');
2 const server = jsonServer.create();
3 const router = jsonServer.router(`${__dirname}/data/db.json`);
4 const middlewares = jsonServer.defaults();
5
6 const port = process.env.PORT || 3000;
7
8 server.use((req, res, next) => {
9   res.header('Access-Control-Allow-Origin', '*')
10  res.header('Access-Control-Allow-Headers', '*')
11  next()
12 })
13
14 server.use(router);
15 server.use(middlewares)
16
17 server.listen(port, () => {
18   console.log('JSON Server is running')
19 })
```



# Railway

## *Paso a paso*

10. Corregir la ruta del archivo index.js, referenciada en el archivo package.json en la línea 5, en la propiedad “main”:

```
1 {
2   "name": "test-railways",
3   "version": "1.0.0",
4   "description": "",
5   "main": "src/index.js",
6   "scripts": {
7     "test": "echo \"Error: no test specified\" && exit 1"
8   },
9   "keywords": [],
10  "author": "",
11  "license": "ISC",
12  "dependencies": {
13    "json-server": "^0.17.0"
14  }
15 }
```



# Railway

*Paso a paso*

11. Para correr el archivo index.js podemos ejecutar el comando node <ubicación del archivo>: `node src/index.js`

The screenshot shows the Visual Studio Code interface. The Explorer panel on the left shows the project structure for 'TEST-RAILWAYS', including 'node\_modules', 'src', 'data', 'dbjson', 'index.js', 'package-lock.json', and 'package.json'. The main editor area displays the 'package.json' file with the following content:

```
1 {
2   "name": "test-railways",
3   "version": "1.0.0",
4   "description": "",
5   "main": "src/index.js",
6   "scripts": {
7     "test": "echo \"Error: no test specified\" && exit 1"
8   },
9   "keywords": [],
10  "author": "",
11  "license": "ISC",
12  "dependencies": {
13    "json-server": "^0.17.0"
14  }
15 }
```

The terminal window at the bottom shows the command `node src/index.js` being executed, resulting in the output: `JSON Server is running`.



# Railway

*Paso a paso*

12. Para correr el archivo index.js, también podemos agregar en la propiedad “script” la siguiente línea:

```
1 {  
2   "name": "test-railways",  
3   "version": "1.0.0",  
4   "description": "",  
5   "main": "src/index.js",  
6   "scripts": {  
7     "test": "echo \\Error: no test specified\\ && exit 1",  
8     "start": "node src/index.js"  
9   },  
10  "keywords": [],  
11  "author": "",  
12  "license": "ISC",  
13  "dependencies": {  
14    "json-server": "0.17.0"  
15  }  
16 }
```

```
1 {  
2   "name": "test-railways",  
3   "version": "1.0.0",  
4   "description": "",  
5   "main": "src/index.js",  
6   "scripts": {  
7     "test": "echo \\Error: no test specified\\ && exit 1",  
8     "start": "node src/index.js"  
9   },  
10  "keywords": [],  
11  "author": "",  
12  "license": "ISC",  
13  "dependencies": {  
14    "json-server": "0.17.0"  
15  }  
16 }
```

```
1 {  
2   "name": "test-railways",  
3   "version": "1.0.0",  
4   "description": "",  
5   "main": "src/index.js",  
6   "scripts": {  
7     "test": "echo \\Error: no test specified\\ && exit 1",  
8     "start": "node src/index.js"  
9   },  
10  "keywords": [],  
11  "author": "",  
12  "license": "ISC",  
13  "dependencies": {  
14    "json-server": "0.17.0"  
15  }  
16 }
```

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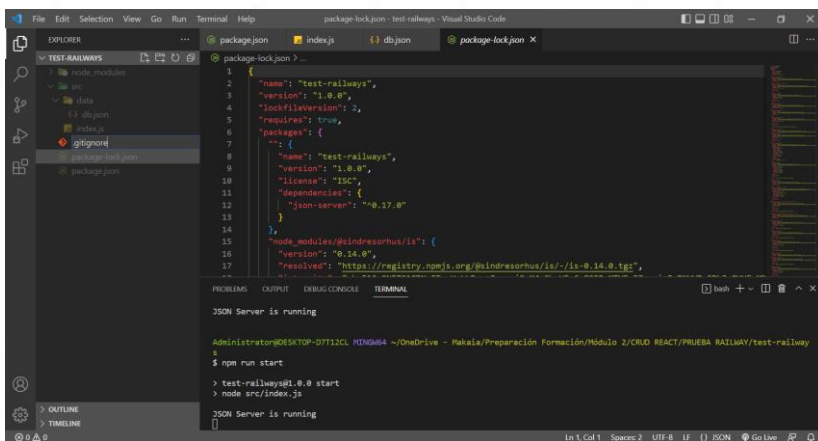
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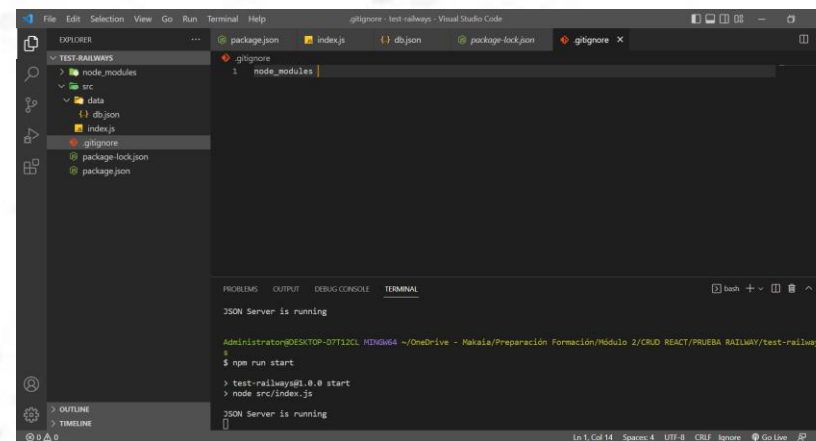
## *Paso a paso*

13. Crear en la raíz del proyecto el archivo .gitignore de la siguiente manera:



```
1 {
2   "name": "test-railways",
3   "version": "1.0.0",
4   "lockfileversion": 2,
5   "requires": true,
6   "packages": {
7     "": {
8       "name": "test-railways",
9       "version": "1.0.0",
10      "license": "ISC",
11      "dependencies": {
12        "json-server": "^0.17.0"
13      }
14    },
15    "node_modules/@indresorhus/is": {
16      "version": "0.14.0",
17      "resolved": "https://registry.npmjs.org/@indresorhus/is/-/is-0.14.0.tgz",
18      "integrity": "sha512-2tvt/Ku6nrd9N0llQhU/NqG21g5LyiA8wD/8U6x/46gKx9D8UvLwA7Mf5Z6TCnmQZ1S8grW3d6UYc3q8yQ==",
19      "dev": true
20    }
21  }
22 }
```

```
Administrator@DESKTOP-07T12CL MINGW64 ~/OneDrive - Makaia/Preparación Formación/Módulo 2/CRUD REACT/PRUEBA RAILWAY/test-railway
$ npm run start
> test-railways@1.0.0 start
> node src/index.js
JSON Server is running
```



```
1 node_modules
```

```
Administrator@DESKTOP-07T12CL MINGW64 ~/OneDrive - Makaia/Preparación Formación/Módulo 2/CRUD REACT/PRUEBA RAILWAY/test-railway
$ npm run start
> test-railways@1.0.0 start
> node src/index.js
JSON Server is running
```

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# Railway

*Paso a paso*

## 14. Subir el proyecto a GitHub: 1. Crear un repositorio en GitHub

Search or jump to... Pull requests Issues Marketplace Explore

### Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

**Repository template**  
Start your repository with a template repository's contents.

No template ▾

**Owner \*** **Repository name \***

WhitneySt ▾ / test-railways ✓

Great repository names are short and memorable. Need inspiration? How about [animated-succotash](#)?

**Description (optional)**

☒ **Public**  
Anyone on the internet can see this repository. You choose who can commit.

☐ **Private**  
You choose who can see and commit to this repository.



☐ **Public**  
Anyone on the internet can see this repository. You choose who can commit.

☒ **Private**  
You choose who can see and commit to this repository.

**Initialize this repository with:**  
Skip this step if you're importing an existing repository.

☐ **Add a README file**  
This is where you can write a long description for your project. [Learn more.](#)

**Add .gitignore**  
Choose which files not to track from a list of templates. [Learn more.](#)

.gitignore template: None ▾

**Choose a license**  
A license tells others what they can and can't do with your code. [Learn more.](#)

License: None ▾

☒ You are creating a private repository in your personal account.

**Create repository**

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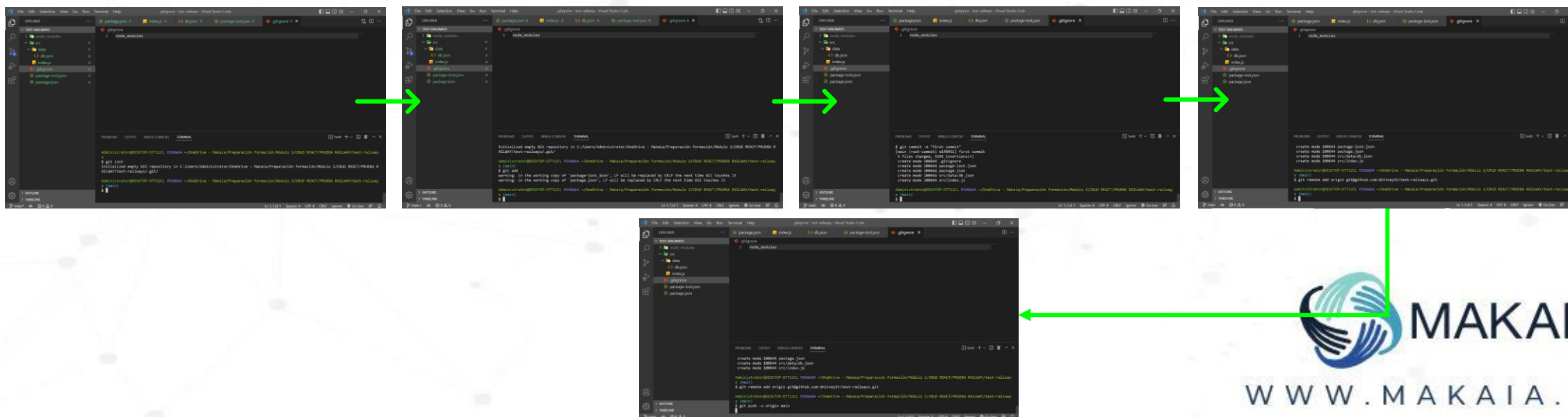


# Railway

*Paso a paso*

14. Subir el proyecto a GitHub:

2. Inicializar el proyecto con git y subirlo a GitHub



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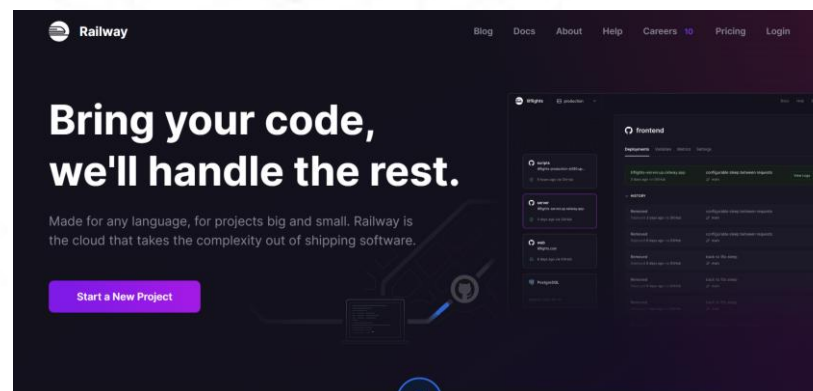
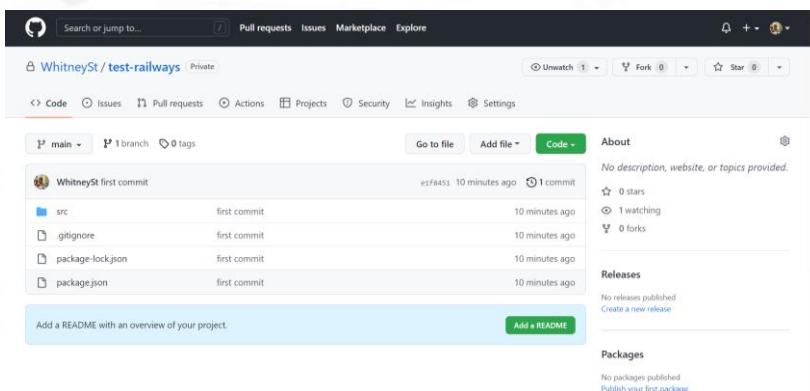




# Railway

*Paso a paso*

15. Una vez que se haya subido el proyecto a GitHub, ir a la página de [Railway app](#):



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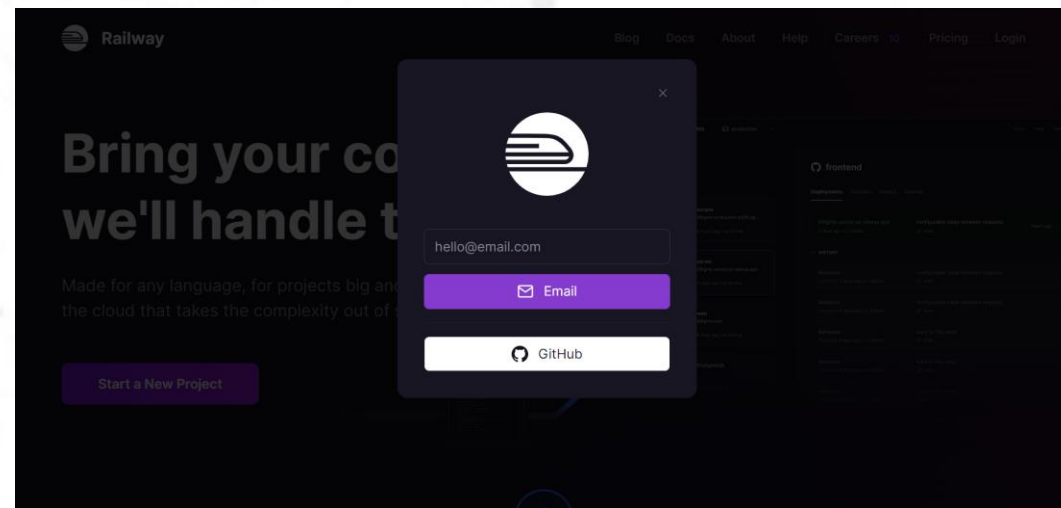
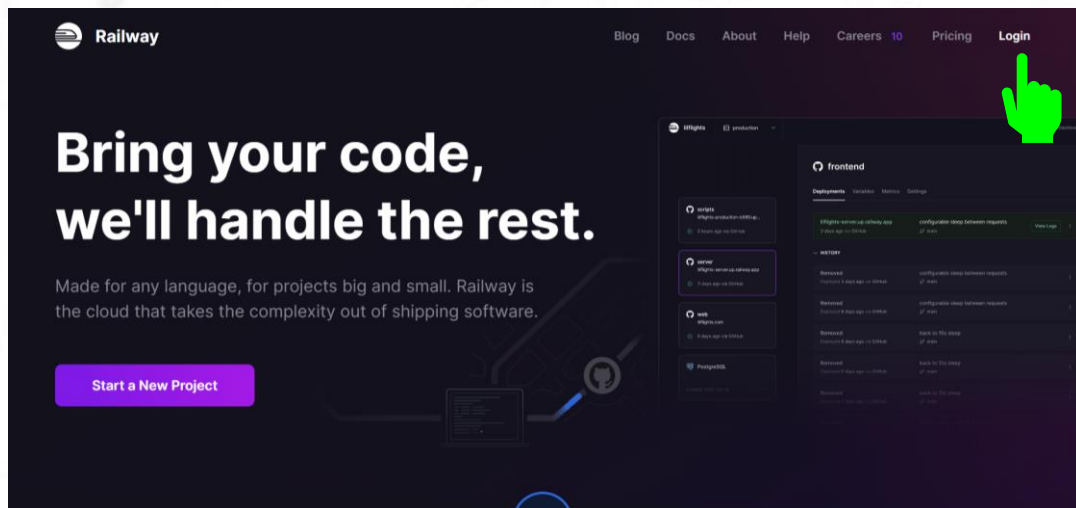




# Railway

*Paso a paso*

16. Dar click en Login:



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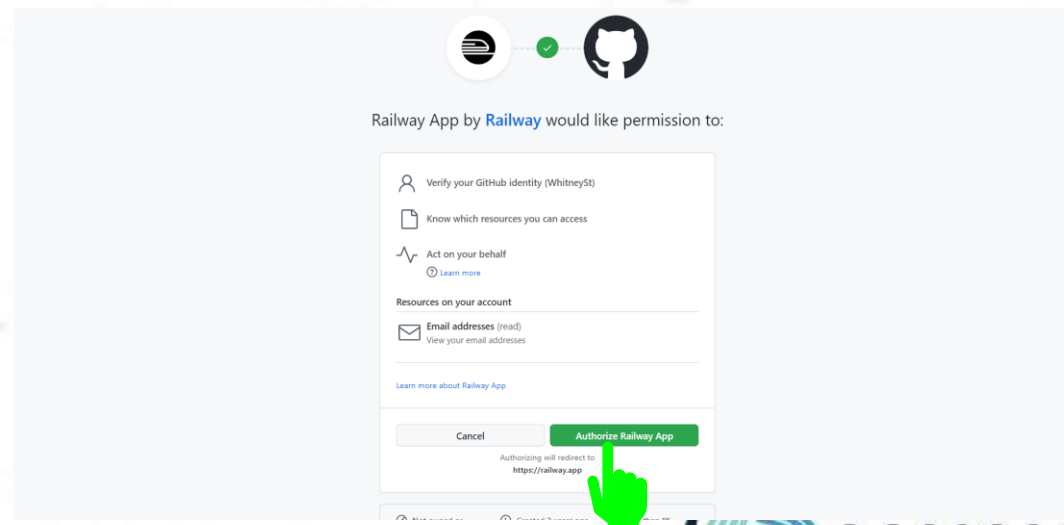
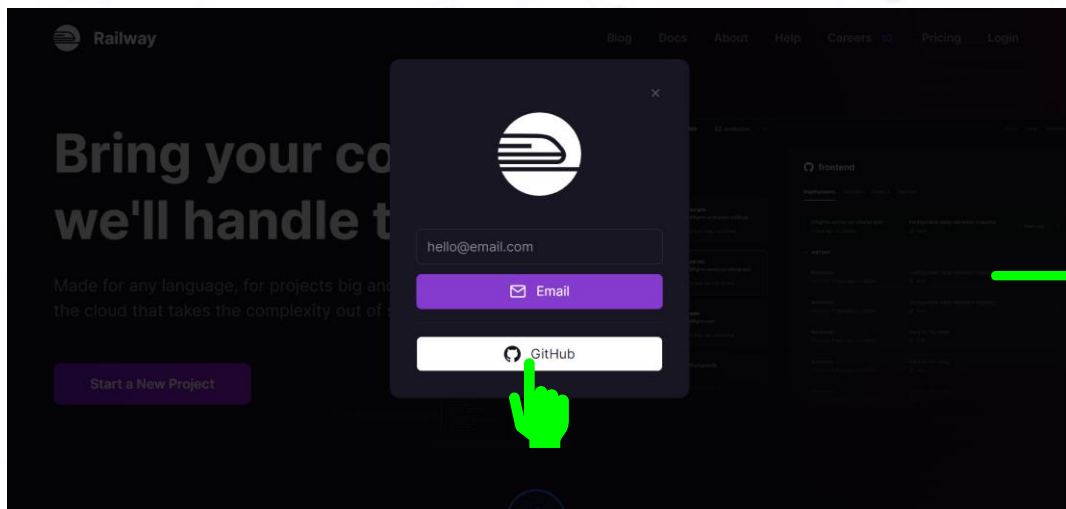
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# Railway

*Paso a paso*

17. Dar click en la opción de GitHub para iniciar sesión:



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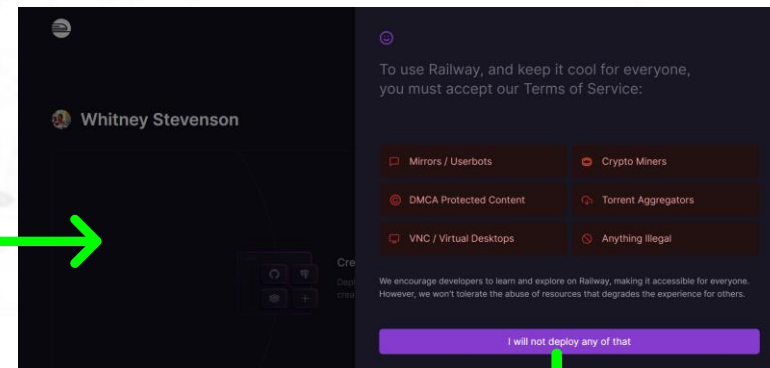
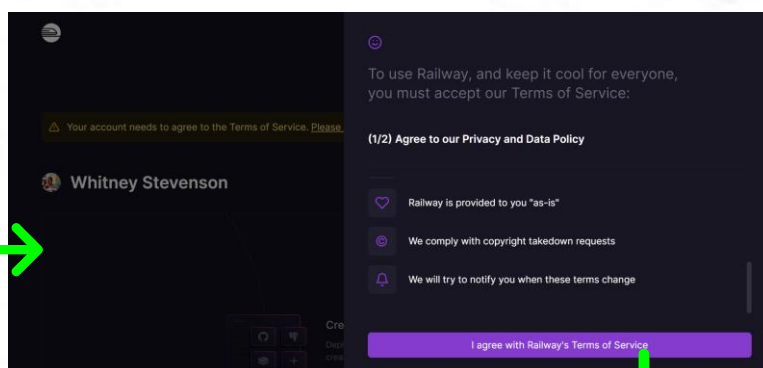
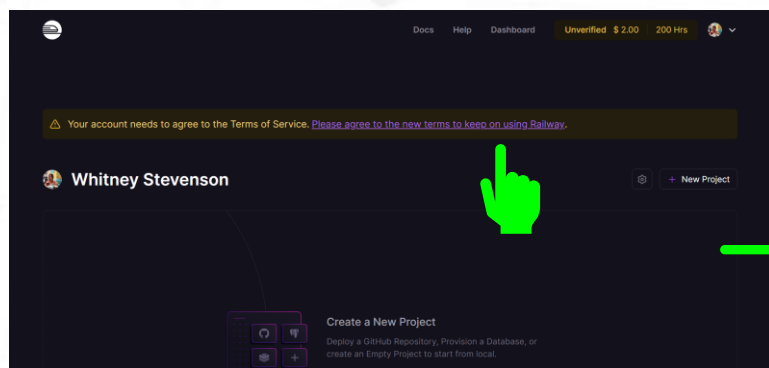
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# Railway

*Paso a paso*

18. Cuando se ingresa por primera vez a Railway, se debe realizar la siguiente verificación:



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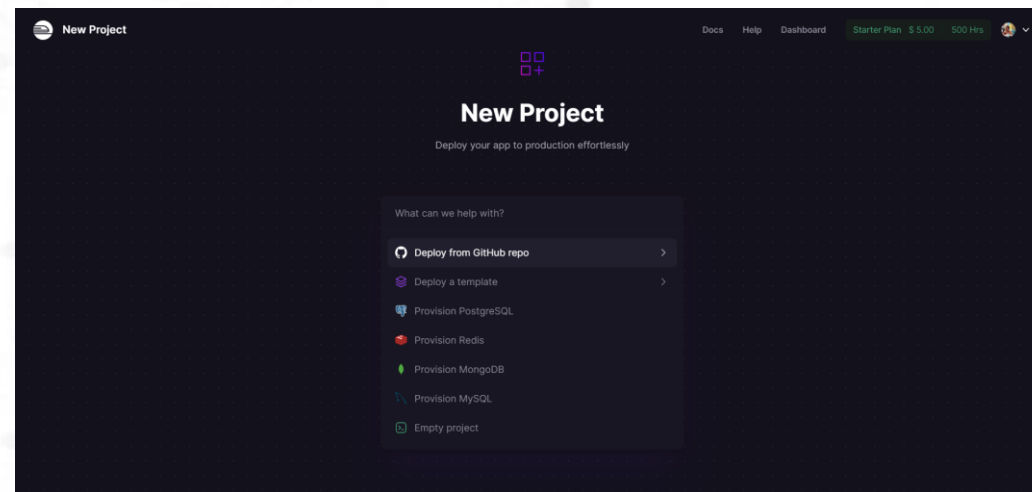
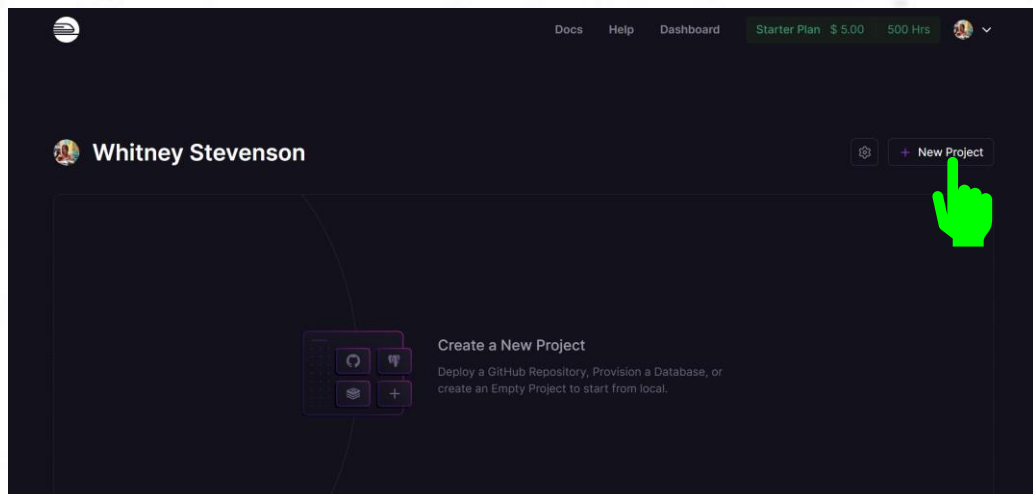
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# Railway

*Paso a paso*

19. Dar click en New Project:



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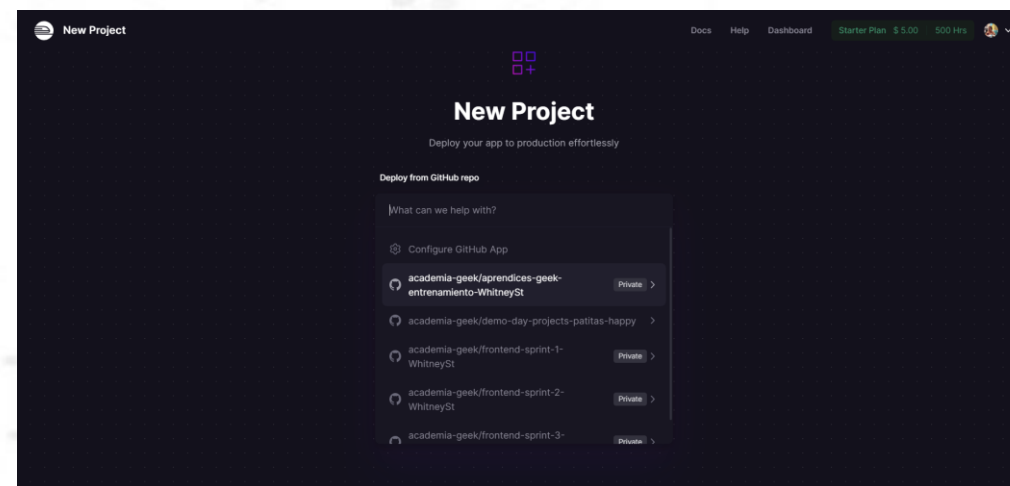
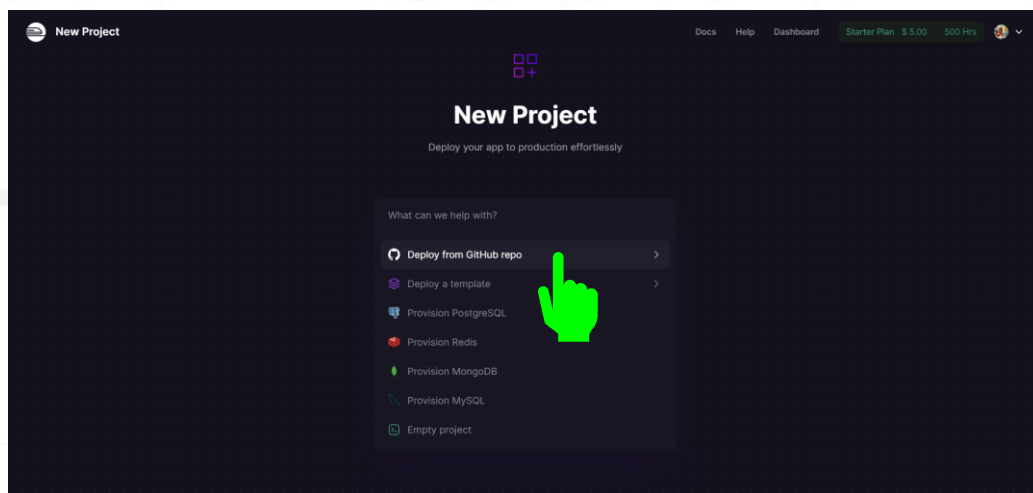
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# Railway

*Paso a paso*

20. Seleccionar la opción Deploy from GitHub repo:



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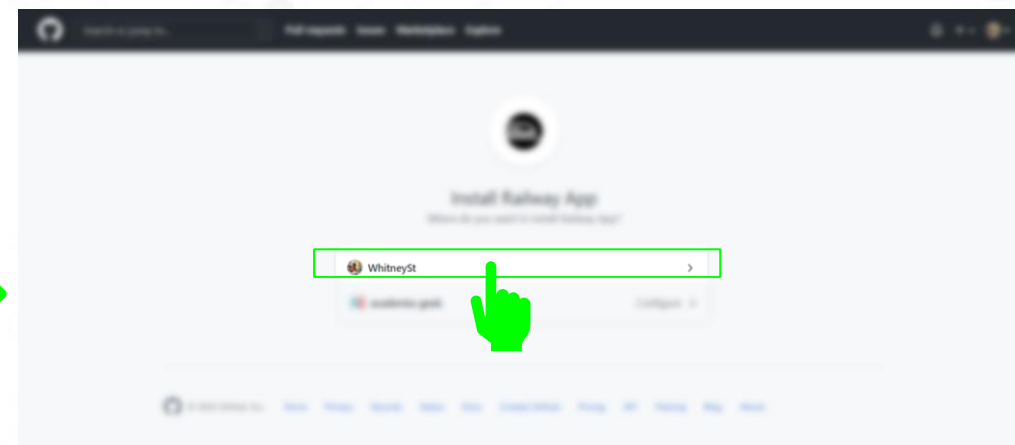
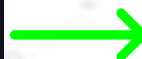
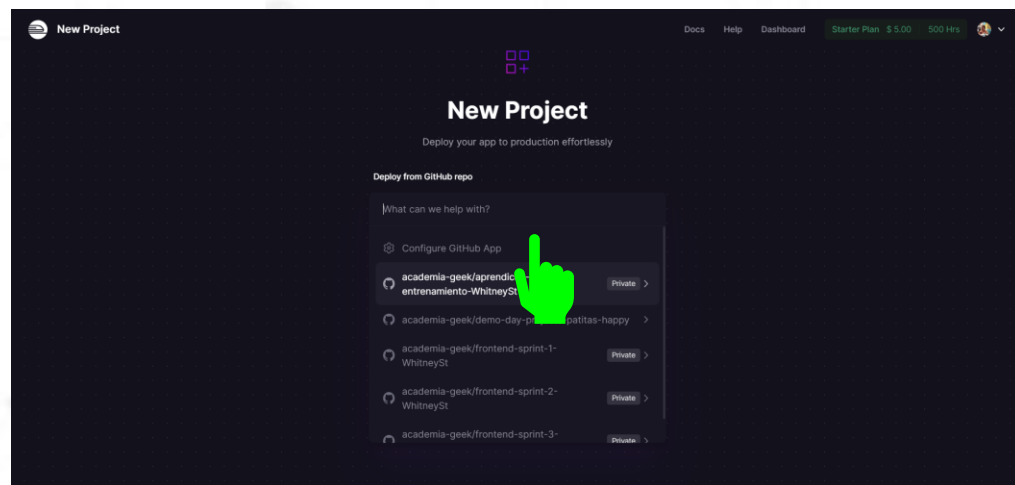
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# Railway

*Paso a paso*

21. Seleccionar la opción Configure GitHub App y seleccionar la cuenta GitHub:



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# Railway

*Paso a paso*

## 22. Seleccionar el repositorio a desplegar:

Install & Authorize Railway App

Install & Authorize on your personal account Whitney Stevenson

☐ All repositories  
This applies to all current and future repositories owned by the resource owner.  
Also includes public repositories (read-only).

☒ Only select repositories  
Select at least one repository.  
Also includes public repositories (read-only).

Select repositories ▾

with these permissions:

- ✓ Read access to metadata
- ✓ Read and write access to actions, administration, checks, code, commit statuses, deployments, pull requests, and workflows

User permissions  
Installing and authorizing Railway App immediately grants these permissions on your account: WhitneySt.

- ✓ Read access to email addresses

Install & Authorize Cancel



Install & Authorize Railway App

Install & Authorize on your personal account Whitney Stevenson

☐ All repositories  
This applies to all current and future repositories owned by the resource owner.  
Also includes public repositories (read-only).

☒ Only select repositories  
Select at least one repository.  
Also includes public repositories (read-only).

Select repositories ▾

Search for a repository

- WhitneySt/Aerial  
no description
- ✓ WhitneySt/Aprendiz-Geek  
no description
- WhitneySt/CountdownTimer  
no description
- WhitneySt/Ejercicio-search  
no description
- WhitneySt/Ejercicio-webpack  
no description
- WhitneySt/food-delivery-app  
no description
- WhitneySt/Jewellery-app



Install & Authorize on your personal account Whitney Stevenson

☐ All repositories  
This applies to all current and future repositories owned by the resource owner.  
Also includes public repositories (read-only).

☒ Only select repositories  
Select at least one repository.  
Also includes public repositories (read-only).

Select repositories ▾

Selected 1 repository.

WhitneySt/test-railways ×

with these permissions:

- ✓ Read access to metadata
- ✓ Read and write access to actions, administration, checks, code, commit statuses, deployments, pull requests, and workflows

User permissions  
Installing and authorizing Railway App immediately grants these permissions on your account: WhitneySt.

- ✓ Read access to email addresses

Install & Authorize Cancel

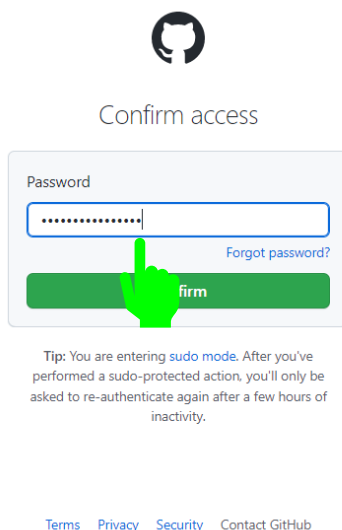
Next: you'll be redirected to [WhitneySt/railway-app/auth/github](#)



# Railway

*Paso a paso*

23. Confirmar contraseña de GitHub, regresar a New Project y seleccionar el repositorio:



Confirm access

Password

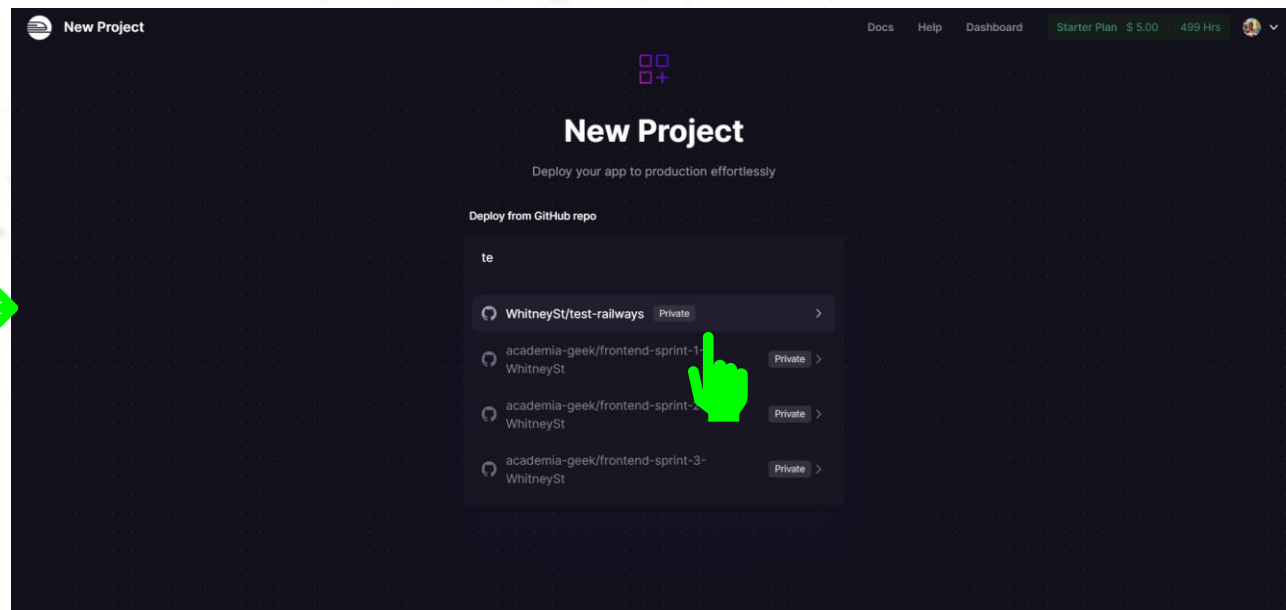
.....

[Forgot password?](#)

**firm**

Tip: You are entering `sudo mode`. After you've performed a sudo-protected action, you'll only be asked to re-authenticate again after a few hours of inactivity.

[Terms](#) [Privacy](#) [Security](#) [Contact GitHub](#)



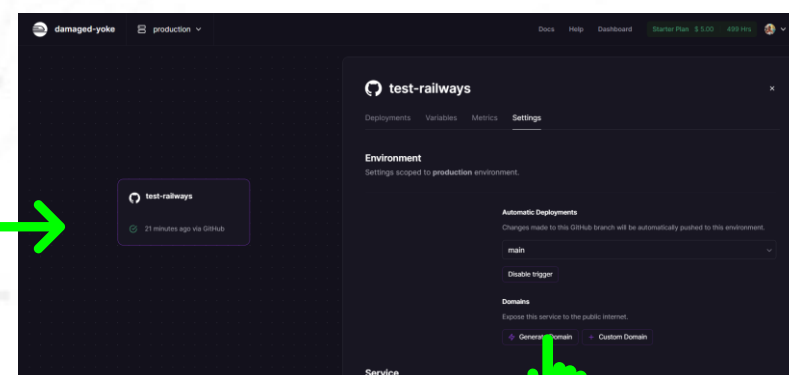
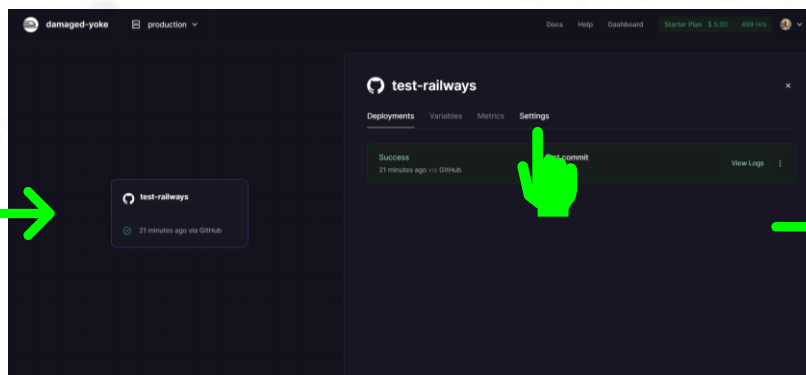
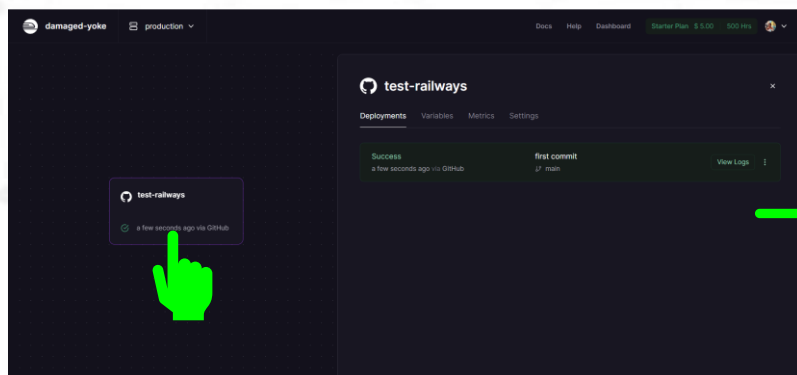




# Railway

*Paso a paso*

24. Seleccionar el proyecto desplegado, ir a settings y generar el dominio:



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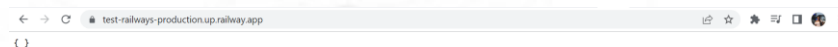
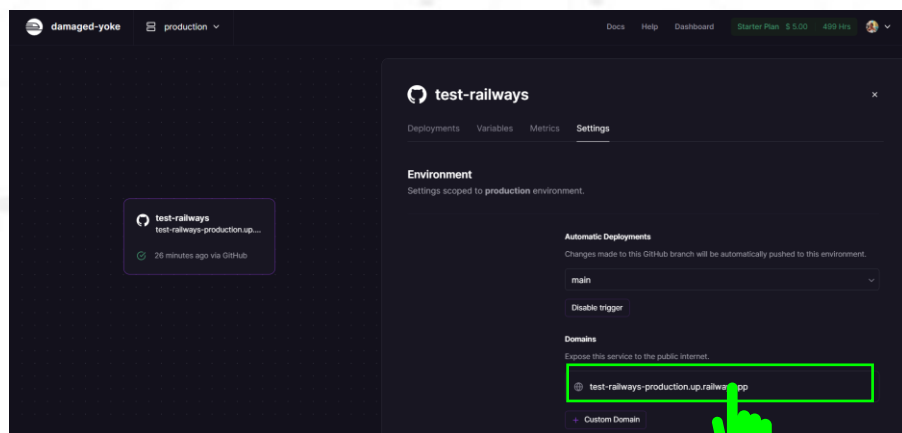
WWW.MAKAIA.ORG



# Railway

*Paso a paso*

25. Abrir el dominio:



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# Railway

*Paso a paso*

26. Agregar endpoint a la url y verificar los datos json:

test-railways-production.up.railway.app



```
test-railways-production.up.railway.app/users  
[  
  {  
    id: 1,  
    name: "Samuel",  
    lastName: "Londoño",  
    age: 20  
  },  
  {  
    id: 2,  
    name: "Corina",  
    lastName: "Sánchez",  
    age: 23  
  },  
  {  
    id: 3,  
    name: "Pablo",  
    lastName: "Torices",  
    age: 20  
  }  
]
```

Este es la  
URL de la  
"API Fake"

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# Fuentes

1. <https://docs.railway.app/develop/projects>
2. <https://railway.app/>
3. <https://github.com/WhitneySt/test-railways>
4. <https://test-railways-production.up.railway.app/users>

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