



UNIVERSIDAD
NACIONAL
DE COLOMBIA

Ciclo III

Desarrollo de Software



Capa Lógica: Despliegue

10

Jeisson Andrés Vergara Vargas

Departamento de Ingeniería de Sistemas e Industrial

<http://colswu.unal.edu.co/~javergarav/>
javergarav@unal.edu.co

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Objetivo de Aprendizaje

Desplegar un componente lógico en una *PaaS*.

Introducción

PaaS

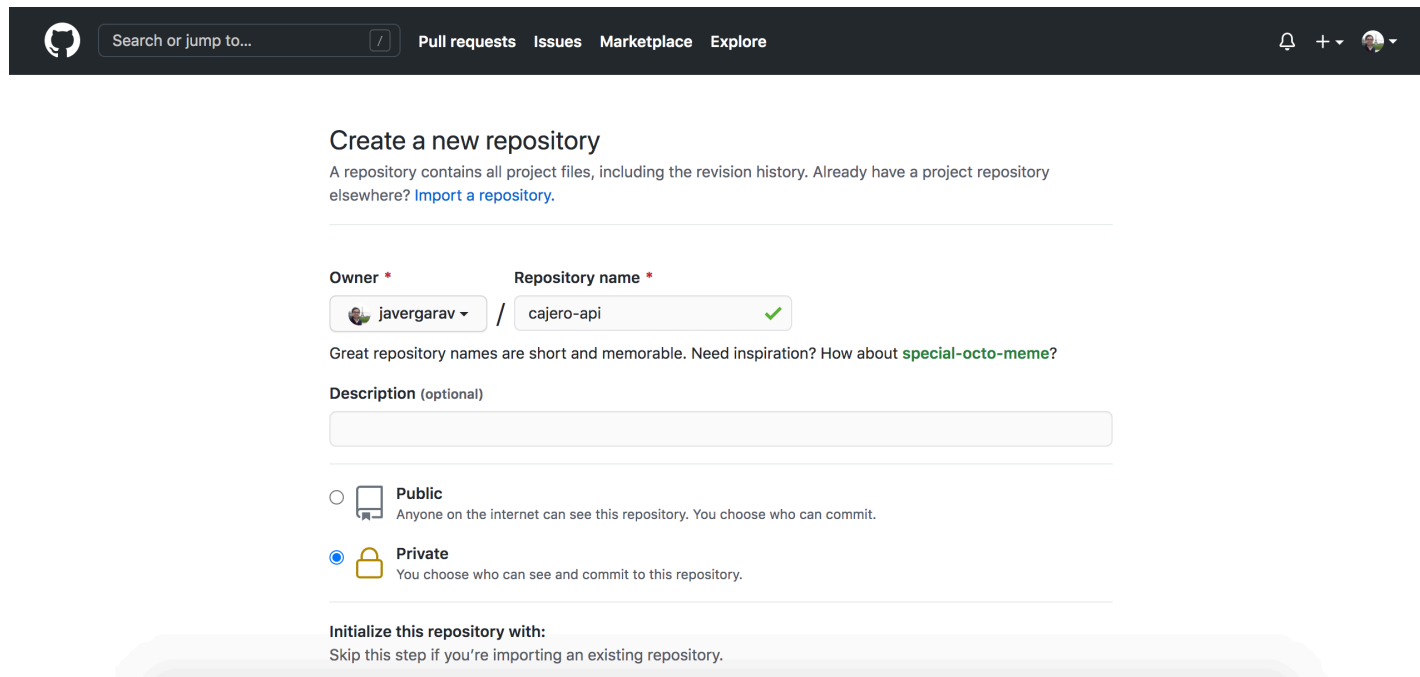
PaaS (Platform as a Service) – *Plataforma como Servicio*, es uno de los modelos de despliegue de la nube, el cual permite a los clientes **desarrollar**, **ejecutar** y **administrar aplicaciones**, sin la complejidad de construir y mantener la infraestructura (típicamente asociada con el desarrollo y lanzamiento de una aplicación).



Despliegue

Repositorio

En **GitHub**, crear un repositorio llamado **cajero-api**:




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.](#)


Owner * Repository name *

 javergarav / cajero-api ✓

Great repository names are short and memorable. Need inspiration? How about [special-octo-meme?](#)

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.

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

Repositorio

1. Clonar el repositorio de manera local.
2. Ingresar a la raíz del directorio del repositorio clonado (**client-api/**)
3. Añadir los archivos correspondientes al proyecto desarrollado en las sesiones anteriores (*este código se puede encontrar en Moodle*):

```
__pycache__/  
db/  
models/  
__init__.py  
main.py
```

Recursos de Despliegue

En la raíz del repositorio, crear un archivo llamado **Procfile** (sin ninguna extensión). Añadir el siguiente contenido:

```
web: unicorn main:api --host=0.0.0.0 --port=${PORT:-5000}
```

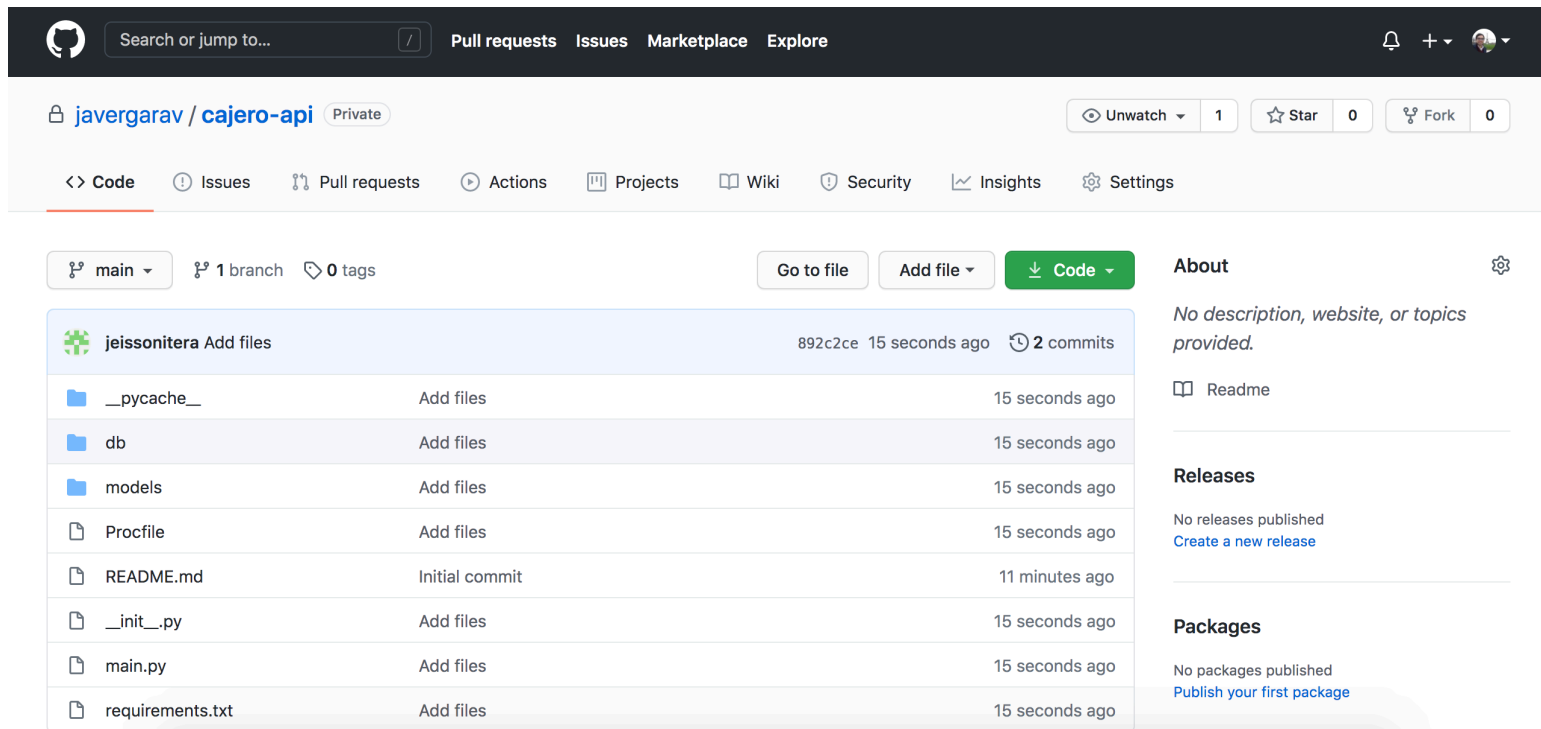

Recursos de Despliegue

En la raíz del repositorio, crear un archivo llamado **requirements.txt**.
Añadir el siguiente contenido:

```
fastapi==0.62.0  
uvicorn==0.12.3  
pydantic==1.7.3
```

Repositorio

Actualizar el repositorio a partir de los cambios realizados:



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

javergarav / cajero-api Private

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main 1 branch 0 tags

Go to file Add file Code

jeissonitera Add files 892c2ce 15 seconds ago 2 commits

__pycache__	Add files	15 seconds ago
db	Add files	15 seconds ago
models	Add files	15 seconds ago
Procfile	Add files	15 seconds ago
README.md	Initial commit	11 minutes ago
__init__.py	Add files	15 seconds ago
main.py	Add files	15 seconds ago
requirements.txt	Add files	15 seconds ago

About

No description, website, or topics provided.

Readme

Releases

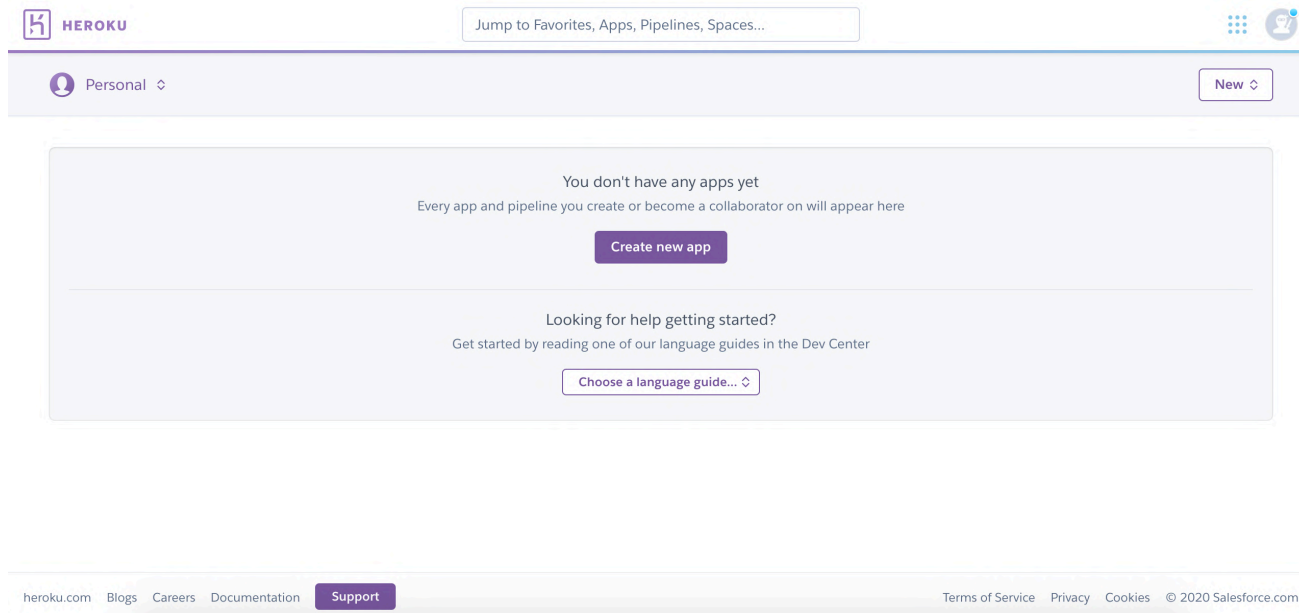
No releases published
[Create a new release](#)

Packages

No packages published
[Publish your first package](#)

Heroku

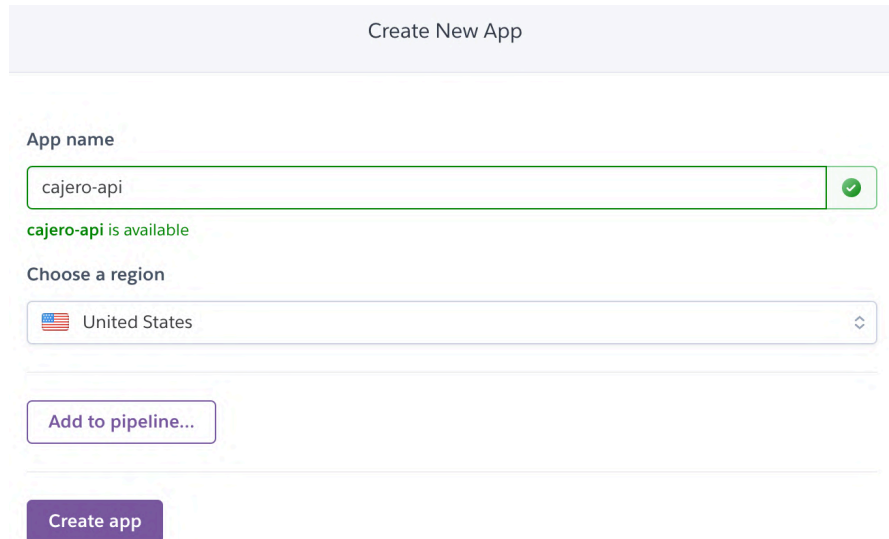
1. Crear una cuenta en [Heroku](https://heroku.com).
2. Iniciar sesión en Heroku:



Heroku

Crear una nueva aplicación, cuyo nombre incluya «**cajero-api**»:

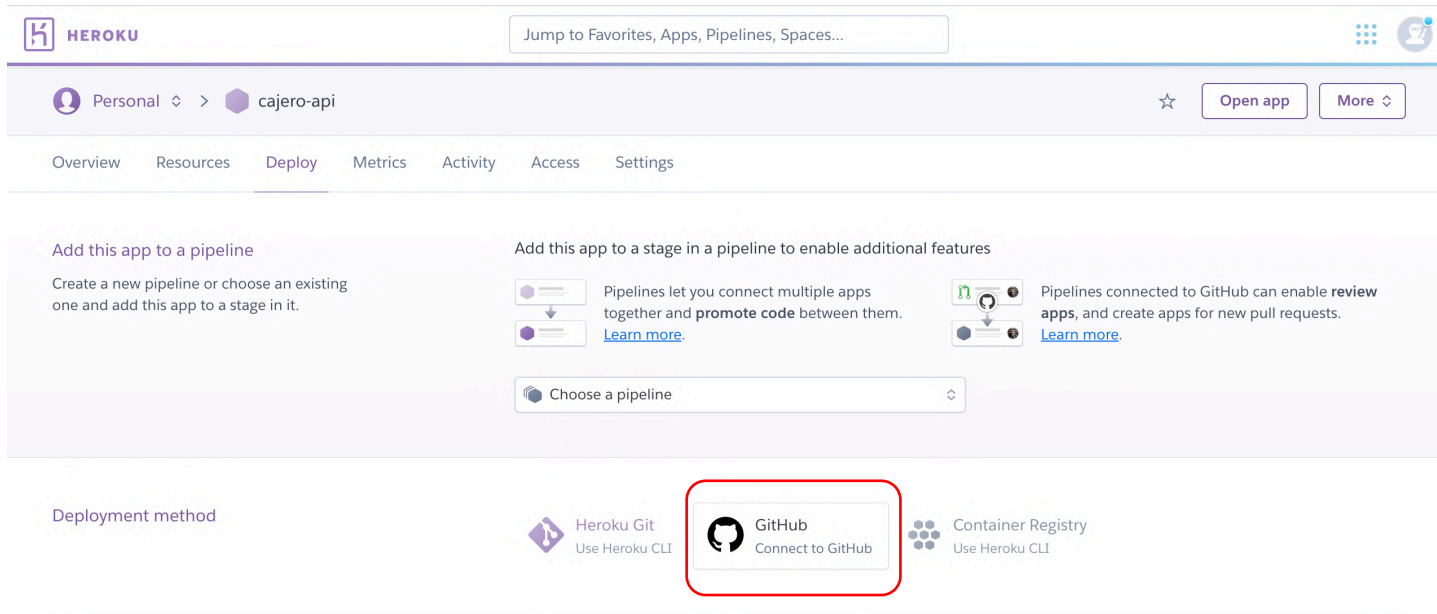
Ejemplo: cajero-api123



The screenshot shows the Heroku 'Create New App' interface. At the top is a light blue button labeled 'Create New App'. Below it, the 'App name' field contains 'cajero-api' and is marked as available with a green checkmark. A message below the field states 'cajero-api is available'. The 'Choose a region' dropdown menu is set to 'United States'. Below the region selection is a button labeled 'Add to pipeline...'. At the bottom is a purple button labeled 'Create app'.

Heroku

Enlazar cuenta de **GitHub**:



The screenshot shows the Heroku dashboard for the 'cajero-api' app. The 'Deploy' tab is selected, and the 'Add this app to a pipeline' section is visible. The 'Deployment method' section at the bottom shows three options: Heroku Git, GitHub, and Container Registry. The GitHub option is highlighted with a red box.

HEROKU Jump to Favorites, Apps, Pipelines, Spaces...

Personal > cajero-api Open app More

Overview Resources **Deploy** Metrics Activity Access Settings

Add this app to a pipeline
Create a new pipeline or choose an existing one and add this app to a stage in it.

Add this app to a stage in a pipeline to enable additional features

Pipelines let you connect multiple apps together and **promote code** between them. [Learn more.](#)

Pipelines connected to GitHub can enable **review apps**, and create apps for new pull requests. [Learn more.](#)

Choose a pipeline

Deployment method

- Heroku Git
Use Heroku CLI
- GitHub**
Connect to GitHub
- Container Registry
Use Heroku CLI

Heroku

Seleccionar el **repositorio** correspondiente:

Deployment method



Heroku Git
Use Heroku CLI



GitHub
Connect to GitHub



Container Registry
Use Heroku CLI

Connect to GitHub

Connect this app to GitHub to enable code diffs and deploys.


Search for a repository to connect to

 javergarav

repo-name

Search

Missing a GitHub organization? [Ensure Heroku Dashboard has team access.](#)

 javergarav/cajero-api

Connect

Heroku

Desplegar manualmente:



Manual deploy

Deploy the current state of a branch to this app.

Deploy a GitHub branch

This will deploy the current state of the branch you specify below. [Learn more](#).

Choose a branch to deploy

 main 

Deploy Branch

Heroku

Desplegar manualmente:

Manual deploy

Deploy the current state of a branch to this app.

Deploy a GitHub branch

This will deploy the current state of the branch you specify below. [Learn more](#).

Choose a branch to deploy

main

Deploy Branch

Receive code from GitHub



Build main 892c2cec



Release phase



Deploy to Heroku



Your app was successfully deployed.

 View

Prueba de la API

Probando la Petición **auth_user**

Se debe ingresar la siguiente **información**:

Método: POST

URL: **`https://cajero-api.herokuapp.com/user/auth/`**

Body (JSON): {

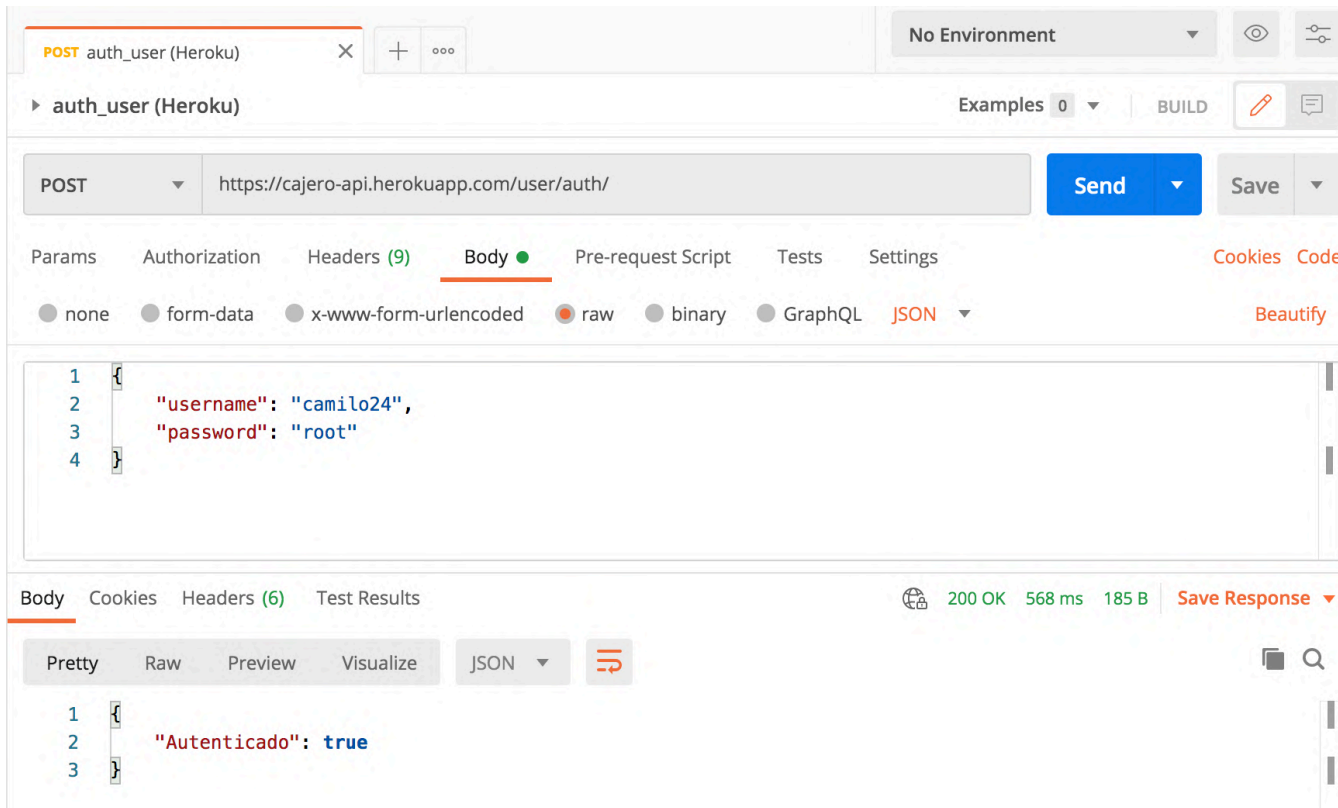
 "username": "camilo24",

 "password": "root"

}

Nota: verificar el nombre del *host* proporcionado por Heroku (<https://cajero-api.herokuapp.com>). Este nombre dependerá del nombre creado para la aplicación.

Probando la Petición **auth_user**



The screenshot displays a REST client interface with the following details:

- Request:**
 - Method: **POST**
 - URL: `https://cajero-api.herokuapp.com/user/auth/`
 - Body (JSON):

```
1 {
2   "username": "camilo24",
3   "password": "root"
4 }
```
- Response:**
 - Status: **200 OK**
 - Time: **568 ms**
 - Size: **185 B**
 - Body (JSON):

```
1 {
2   "Autenticado": true
3 }
```