

# **Parcial 2 Microservicios**

**Presentado por**

**Carlos Hernández**

**LENGUAJE DE PROGRAMACIÓN AVANZADO 2**

**Martha Nicolasa Amaya Becerra**

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El primer paso ejecutamos el servidor de Eureka y entramos al  
Localhost:8761 y verificamos que todo este funcionando excelente

Eureka

localhost:8761

### System Status

Environment	test	Current time	2025-04-14T09:18:38 -0500
Data center	default	Uptime	00:00
		Lease expiration enabled	false
		Renews threshold	1
		Renews (last min)	0

### DS Replicas

localhost

### Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
No instances available			

### General Info

Name	Value
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El segundo paso es ejecutar el servidor de config server y comprobamos que la instancia de Eureka sever este corriendo y contado

Eureka

localhost:8761

### System Status

Environment	test	Current time	2025-04-14T09:32:39 -0500
Data center	default	Uptime	00:14
		Lease expiration enabled	true
		Renews threshold	3
		Renews (last min)	4

### DS Replicas

localhost

### Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
CONFIGSERVER	n/a (1)	(1)	UP (1) - <a href="#">TAT:configserver:8888</a>

### General Info

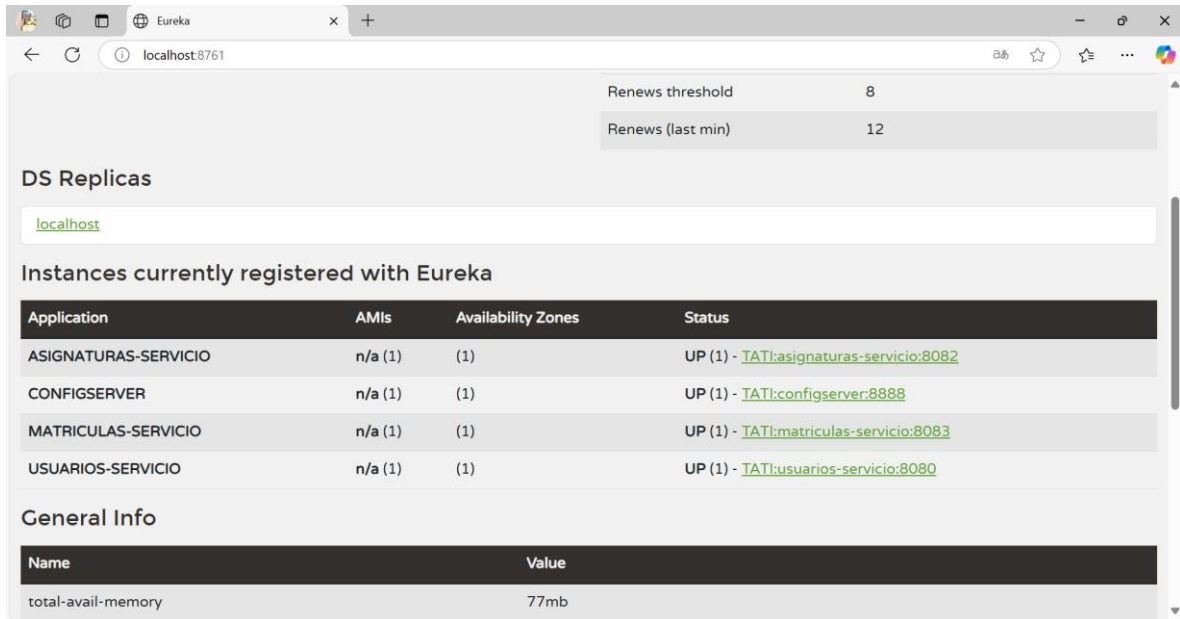
Name	Value
total-avail-memory	77mb

3 paso es ejecutar los microservicios en orden

1 el usuario-servicio

2 la asignatura-servicio

3 matricula-servicio



The screenshot shows the Eureka service discovery UI in a web browser. The browser tab is titled 'Eureka' and the address bar shows 'localhost:8761'. The UI displays the following information:

- Renews threshold:** 8
- Renews (last min):** 12
- DS Replicas:** localhost
- Instances currently registered with Eureka:**

Application	AMIs	Availability Zones	Status
ASIGNATURAS-SERVICIO	n/a (1)	(1)	UP (1) - <a href="#">TATI:asignaturas-servicio:8082</a>
CONFIGSERVER	n/a (1)	(1)	UP (1) - <a href="#">TATI:configserver:8888</a>
MATRICULAS-SERVICIO	n/a (1)	(1)	UP (1) - <a href="#">TATI:matriculas-servicio:8083</a>
USUARIOS-SERVICIO	n/a (1)	(1)	UP (1) - <a href="#">TATI:usuarios-servicio:8080</a>

**General Info**

Name	Value
total-avail-memory	77mb

Y comprobamos que los 3 microservicios estén todo conectado

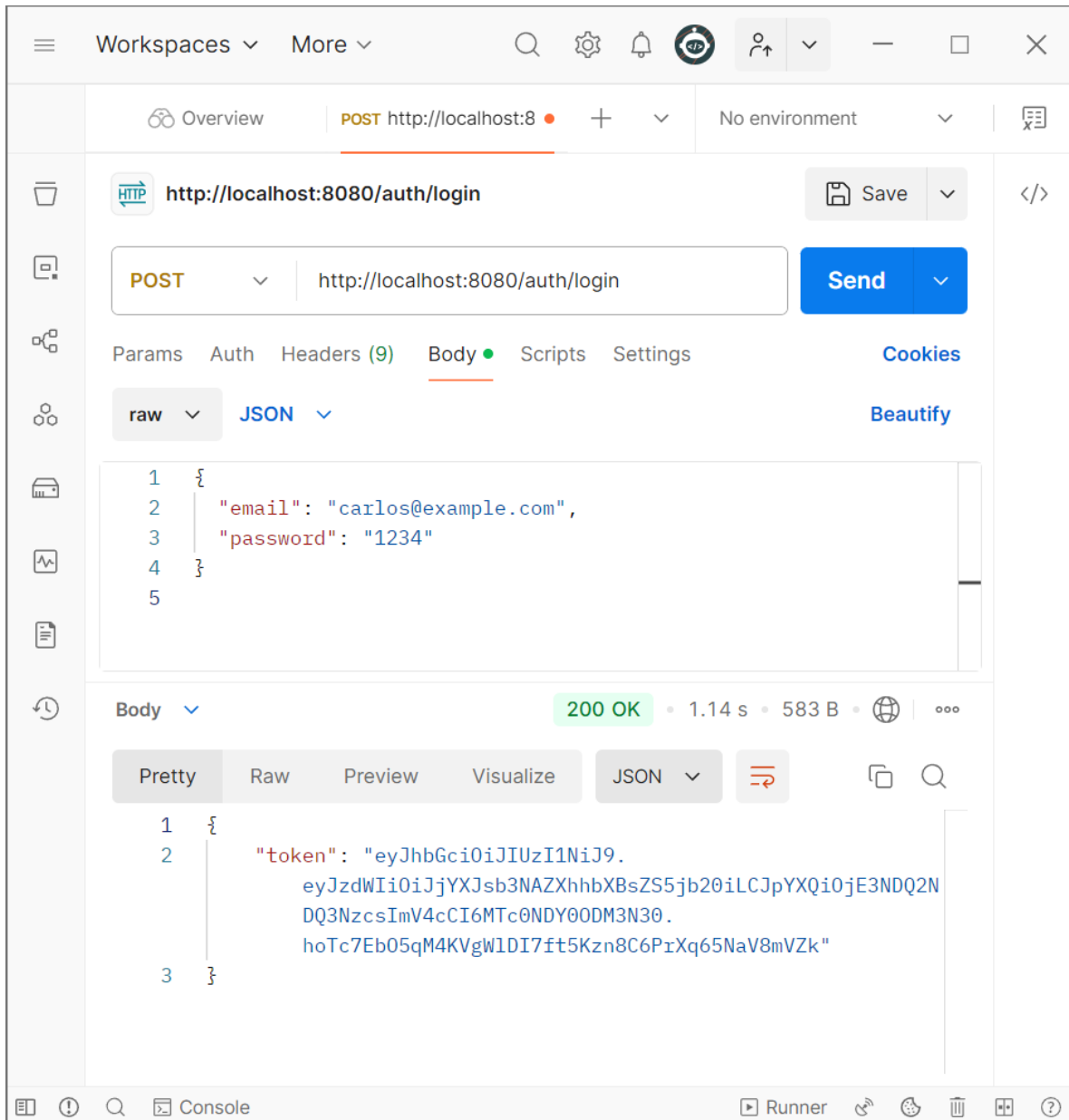
#### 4 paso a crear un usuario con rol para la matricula

The screenshot shows the VS Code REST Client interface. The top bar indicates the workspace and the active request is a POST to `http://localhost:8080/auth/registro`. The request body is a JSON object with the following fields:

```
3  "apellido": "Hernandez",
4  "email": "carlos@example.com",
5  "password": "1234",
6  "rol": "ESTUDIANTE",
7  "carrera": "Sistemas"
8  }
9
```

The response is a 200 OK status, received in 2.33 seconds with a body size of 454 B. The response body is displayed in the 'Body' tab, showing the message: `1 Usuario registrado exitosamente`.

ingresamos los datos para crear un Estudiante para la crear la Matricula



Ya que hicimos el registro nos va a votar un token ya que con este nos lo utilizaremos para la autenticación del usuario

Workspaces ▾ More ▾

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Overview

POST http://localhost:8082/assignaturas

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▾

No environment ▾

http://localhost:8082/assignaturas

Save ▾

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POST ▾

http://localhost:8082/assignaturas

Send ▾

Params

Auth ●

Headers (10)

Body ●

Scripts

Settings

Cookies

The authorization header will be automatically generated when you send the request. Learn more about [Bearer Token](#) authorization.

Token

eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJjYXJst..⚠

Body ▾

200 OK • 1.14 s • 583 B • | ...

Pretty

Raw

Preview

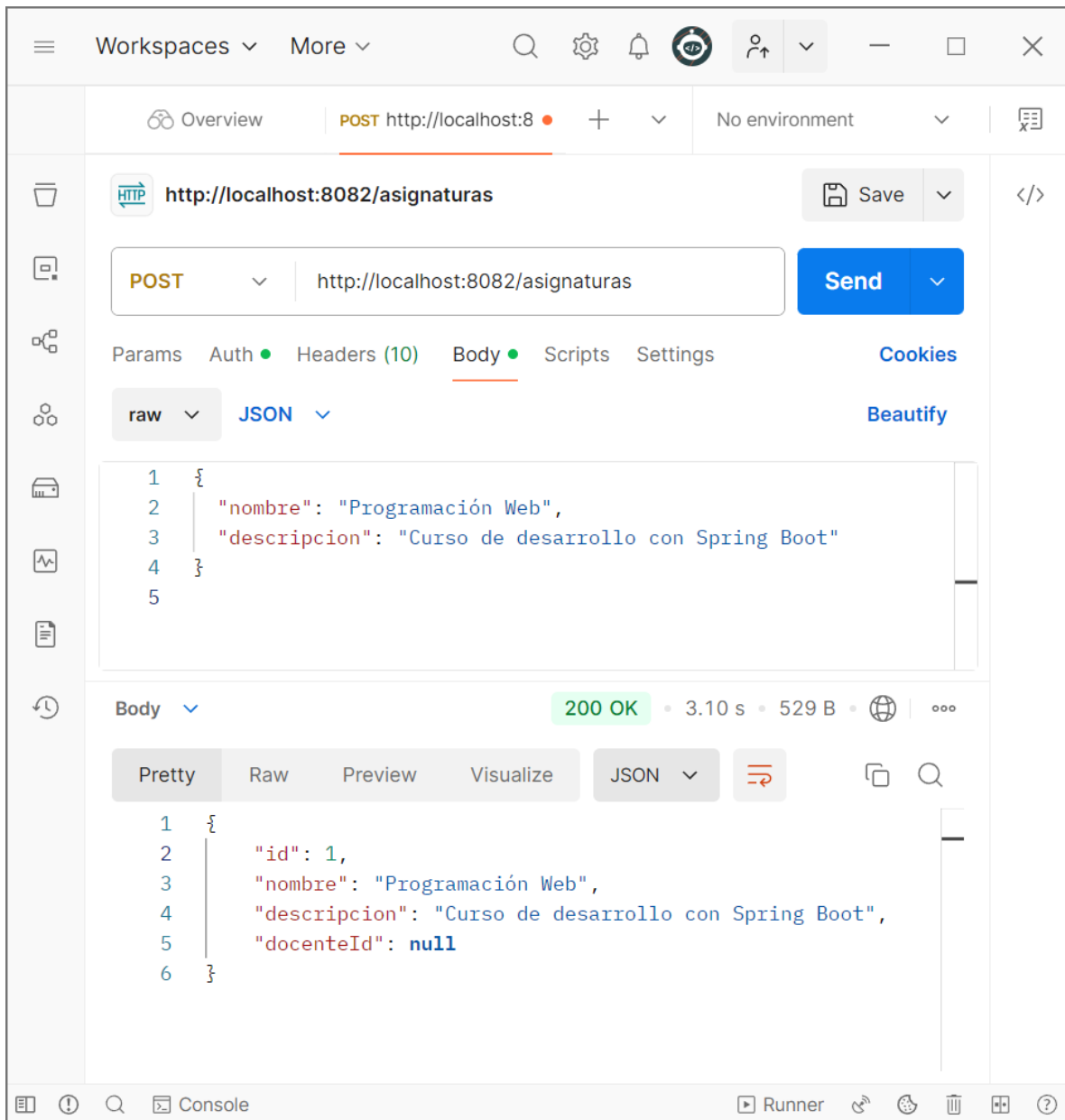
Visualize

JSON ▾

```
1  {
2    "token": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJjYXJst..
3  }
```

Console

Runner



Ya ingresado el token crearemos el programa que el Estudiante estaría cursando y el curso

Workspaces ▾ More ▾

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👤 Overview

POST http://localhost:8083

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🚫 No environment ▾

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🔗 http://localhost:8083/matriculas

💾 Save ▾

🔗 Share

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POST ▾ http://localhost:8083/matriculas

📤 Send ▾

↕

🔗

Params

Auth ●

Headers (11)

Body ●

Scripts

Settings

Cookies

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raw ▾

JSON ▾

Beautify

1 {

2   "asignaturaId": 1

3 }

4

Body ▾ 🕒

200 OK • 4.16 s • 465 B • 🌐 | ⋮

{ } JSON ▾

▶ Preview

🔄 Visualize ▾

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🔗

1 {

2   " id": 1,

3   " estudianteId": 2,

4   " asignaturaId": 1

5 }

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📄 Console

🔗 Postbot

▶ Runner

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🏠 Vault

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Workspaces ▾ More ▾

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👤 Overview

GET http://localhost:80

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No environment ▾

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HTTP

http://localhost:8083/actuator/health

Save ▾

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GET ▾

http://localhost:8083/actuator/health

Send ▾

Params

Auth ●

Headers (10)

Body ●

Scripts

Settings

Cookies

The authorization header will be automatically generated when you send the request. Learn more about [Bearer Token](#) authorization.

Token

eyJhbGciOiJIUzI1NiJ9.eyJzdWliOiJpYXJ5b3NAZXhhbXBsZS5jb20iLCJpYXQiOiJlcyNDQ2NDQ3NzcslmV4cCI6MTc0NDY0ODM3N30.hoTc7EbO5qM4KVgWIDI7ft5Kzn8C6PrXq65NaV8mVZk

Body ▾

200 OK • 247 ms • 466 B • 🌐 | ⋮

Pretty

Raw

Preview

Visualize

JSON ▾

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1 {

2 | "status": "UP"

3 }

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📄 Console

▶ Runner

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🗑️

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