# Task 3: Simulated Multi-Cloud Architecture

### **Objective**

Simulate a multi-cloud architecture where data is fetched across two cloud platforms using **AWS EC2** and a **GitHub-hosted file**.

#### AWS EC2 (App Host)

- Deployed a Flask app on EC2
- Pulled external data from GitHub using Python requests

#### GitHub (File Host)

- Public file hosted on GitHub simulates a second cloud service
- Used raw URL to access the file directly

#### Material Demonstrated Interoperability

- EC2 (AWS) → GitHub (Public cloud data source)
- Communication via HTTP GET requests

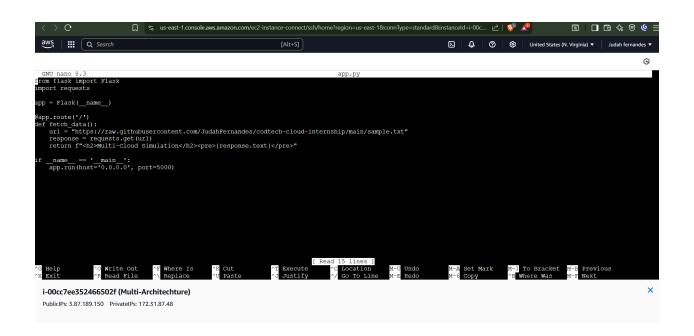
#### **Screenshots**

```
ec2-user@ip-172-31-87-48:~ ×
Microsoft Windows [Version 10.0.22631.5335]
(c) Microsoft Corporation. All rights reserved.
C:\Users\judah>
C:\Users\judah>
C:\Users\judah>ssh -i "C:\Users\Judah\Downloads\Multi-Architechture.pem" ec2-user@3.87.189.150
The authenticity of host '3.87.189.150 (3.87.189.150)' can't be established. ED25519 key fingerprint is SHA256:TB5lPONfrjdle5e6yfb904aV80lWpFuX4ETlpODXgMw.
This key is not known by any other names.

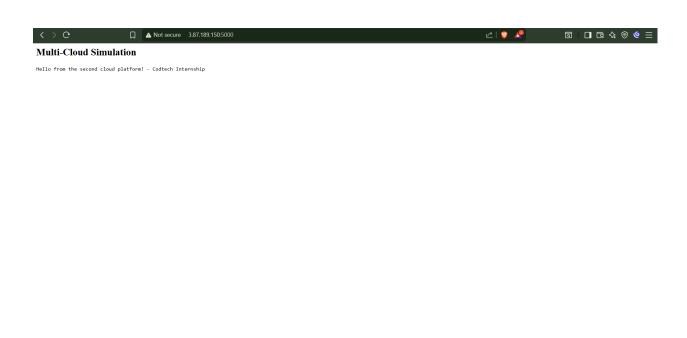
Are you sure you want to continue connecting (yes/no/[fingerprint])? y

Please type 'yes', 'no' or the fingerprint: yes

Warning: Permanently added '3.87.189.150' (ED25519) to the list of known hosts.
             #_
            ####_
                               Amazon Linux 2023
          \_####\
              \###|
                 \#/
                               https://aws.amazon.com/linux/amazon-linux-2023
            /m/
Last login: Tue Jul 8 18:24:25 2025 from 18.206.107.27
[ec2-user@ip-172-31-87-48 ~]$
```



```
[ec2-user@ip-172-31-87-48 ~]$ sudo python3 app.py
 * Serving Flask app 'app'
 * Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on all addresses (0.0.0.0)
 * Running on http://127.0.0.1:5000
 * Running on http://172.31.87.48:5000
Press CTRL+C to quit
```



## Task Completed

7 Date: [9th July 2025]

Cloud Providers Simulated: AWS + GitHub