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`

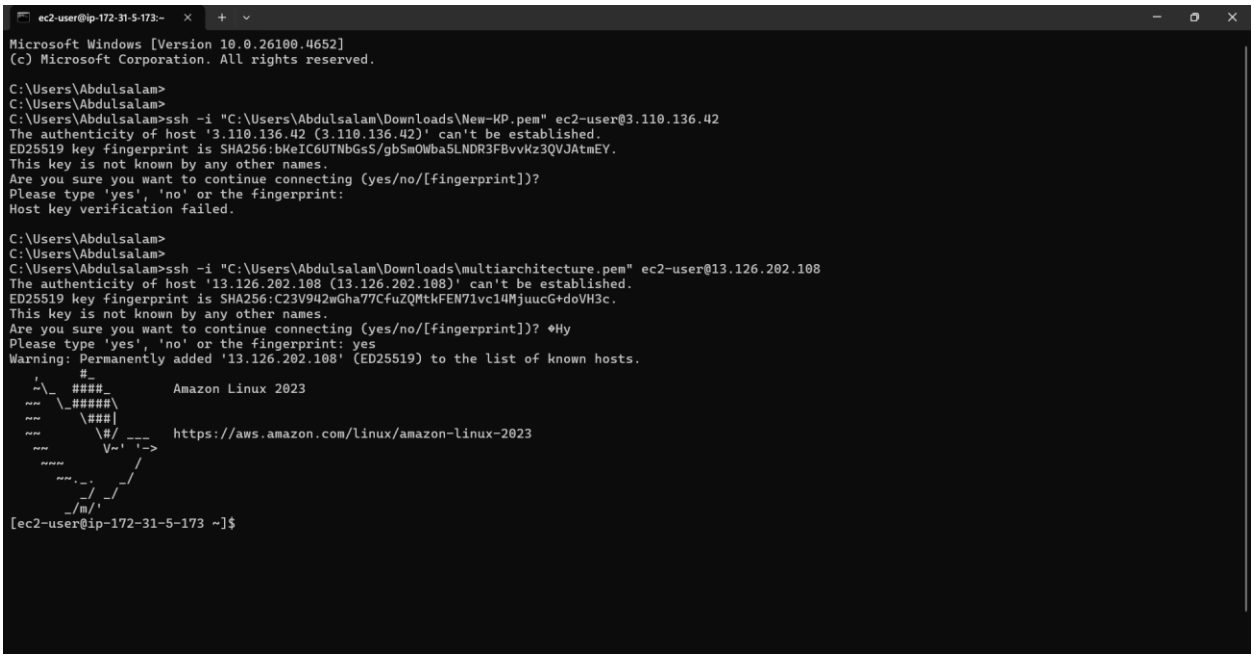
GitHub (File Host)

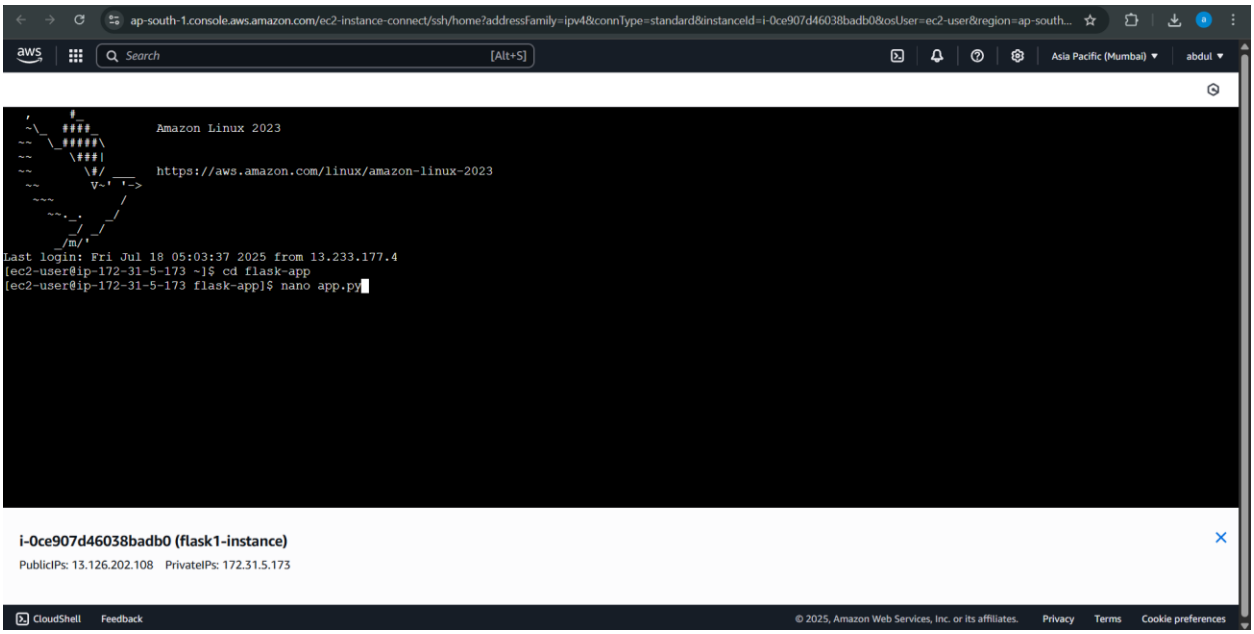
- Public file hosted on GitHub simulates a second cloud service
- Used raw URL to access the file directly

Demonstrated Interoperability

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

Screenshots


ec2-user@ip-172-31-5-173:~
Microsoft Windows [Version 10.0.26100.4652]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Abdulsalam>
C:\Users\Abdulsalam>
C:\Users\Abdulsalam>ssh -i "C:\Users\Abdulsalam\Downloads\New-KP.pem" ec2-user@3.110.136.42
The authenticity of host '3.110.136.42 (3.110.136.42)' can't be established.
ED25519 key fingerprint is SHA256:bKeIC6UTNbGsS/gbSmOWba5LNDR3FBvvKz3QVJAtmEY.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])?
Please type 'yes', 'no' or the fingerprint:
Host key verification failed.
C:\Users\Abdulsalam>
C:\Users\Abdulsalam>
C:\Users\Abdulsalam>ssh -i "C:\Users\Abdulsalam\Downloads\multiarchitecture.pem" ec2-user@13.126.202.108
The authenticity of host '13.126.202.108 (13.126.202.108)' can't be established.
ED25519 key fingerprint is SHA256:C23V9W2wGha77CfuZQMtkFEN71vc14MjuucG+doVH3c.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yHy
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added '13.126.202.108' (ED25519) to the list of known hosts.
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
[ec2-user@ip-172-31-5-173 ~]$


ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressfamily=ipv4&connType=standard&instanceId=i-0ce907d46038badb0&osUser=ec2-user&region=ap-south...
aws
Search
[Alt+S]
Asia Pacific (Mumbai)
abdul
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
Last login: Fri Jul 18 05:03:37 2025 from 13.233.177.4
[ec2-user@ip-172-31-5-173 ~]$ cd flask-app
[ec2-user@ip-172-31-5-173 flask-app]$ nano app.py
i-0ce907d46038badb0 (flask1-instance)
PublicIPs: 13.126.202.108 PrivateIPs: 172.31.5.173
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


```
[ec2-user@ip-172-31-5-173 ~]$ cd flask-app
[ec2-user@ip-172-31-5-173 flask-app]$ 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://172.31.5.173:5000
Press CTRL+C to quit
```

✓Task Completed

 Date: [18th July 2025]

- Cloud Providers Simulated: AWS + GitHub