Codetech Task 4 – Multi-Cloud Architecture Setup

NAME: Y. Sherisha

TASK: Design a Multi-Cloud Architecture Where Services Are Distributed Across Two Cloud Providers

PLATFORM USED: Amazon Web Services (AWS) + Google Cloud Platform (GCP)

Instance Details

AWS Instance ID: i-03aaff0e727ab36a6

Instance Name: multitech11

Public IP: 15.207.223.7

GCP Bucket Name: multicloud11

GCP Public File URL: https://storage.googleapis.com/multicloud11/hm.jpg

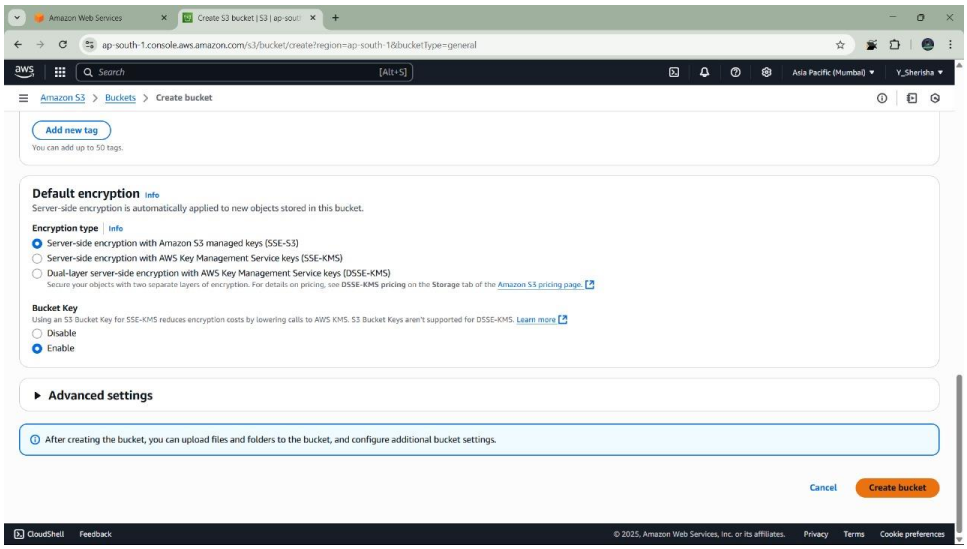
Steps Performed

1. Created EC2 Instance on AWS

• Launched a t2.micro EC2 instance using Amazon Linux 2

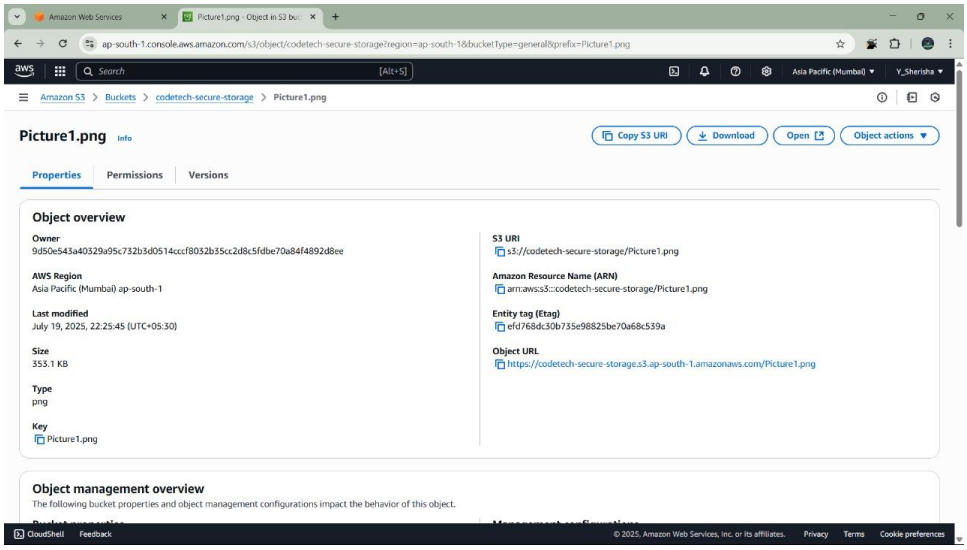
• Opened HTTP (port 80) in the security group

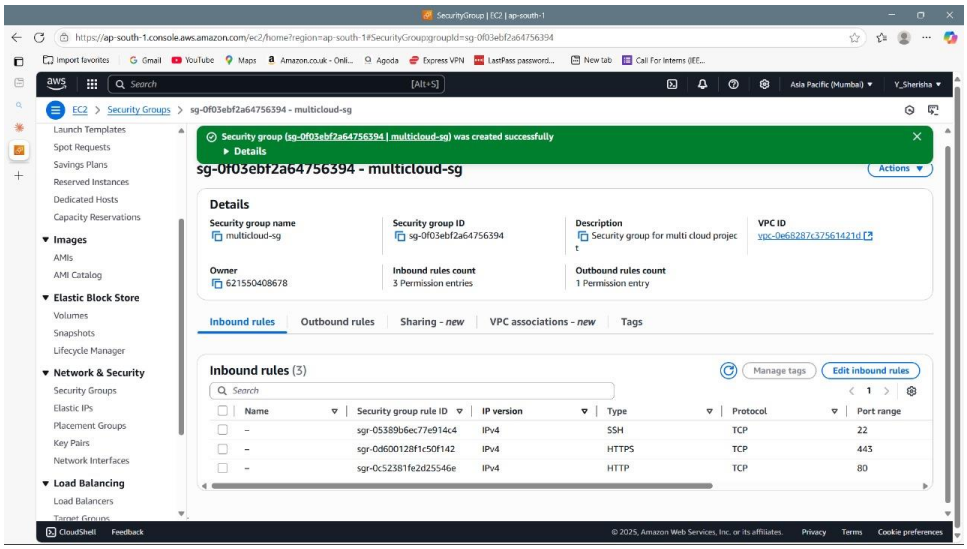
• Connected via SSH using kp11.pem key pair



2. Set Up a Web Server on AWS

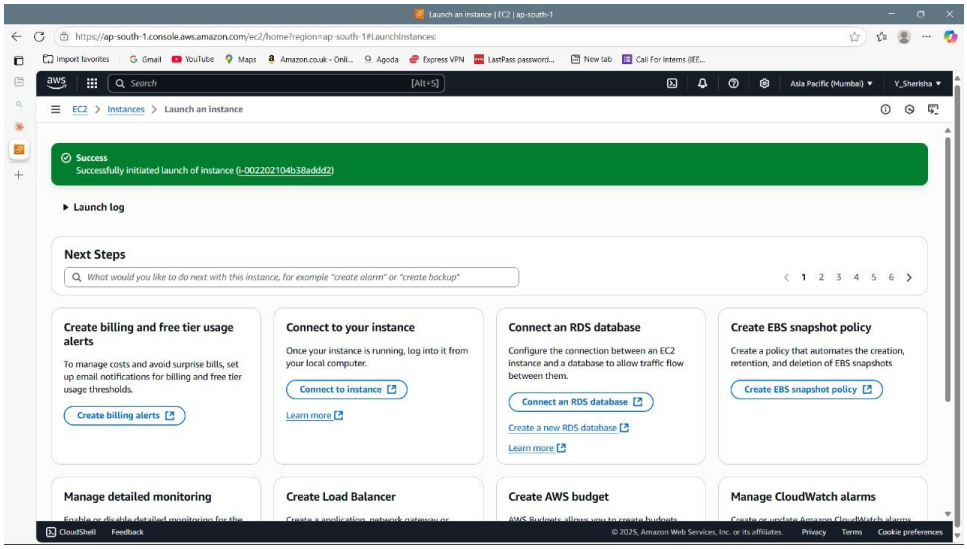
- Created a basic HTML file (index.html) with content: <h1>Hello from AWS!</h1>
- Hosted it using: sudo python3 -m http.server 80
- Verified output at: http://15.207.223.7

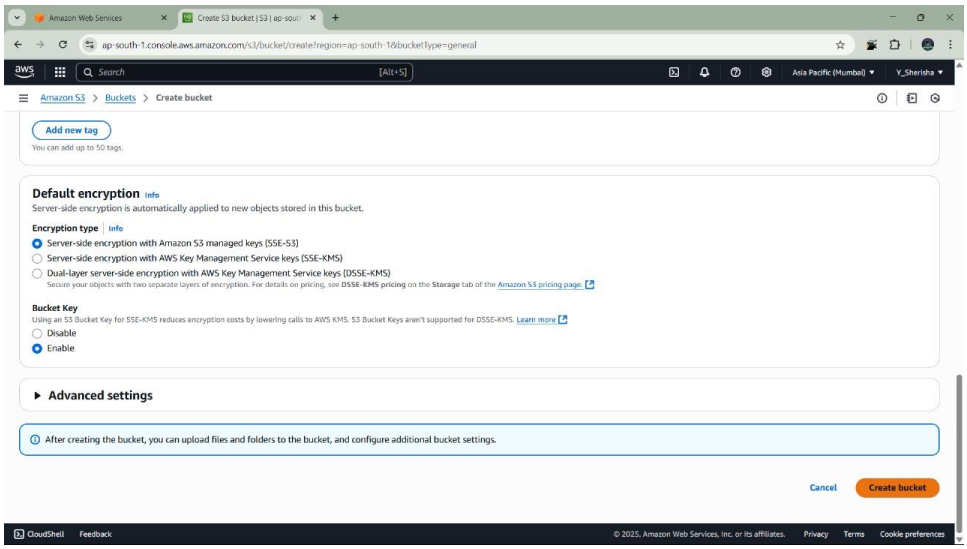




3. Created Cloud Storage Bucket on GCP

- Created a bucket named multicloud11
- Uploaded file: hm.jpg
- Enabled Uniform access control
- Granted public access to allUsers with Storage Object Viewer role
- Verified access at: https://storage.googleapis.com/multicloud11/hm.jpg



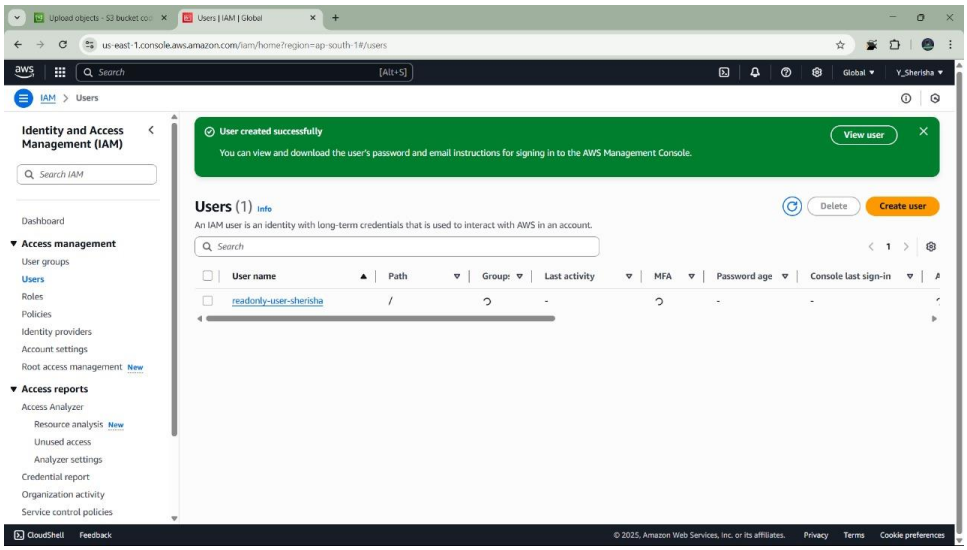


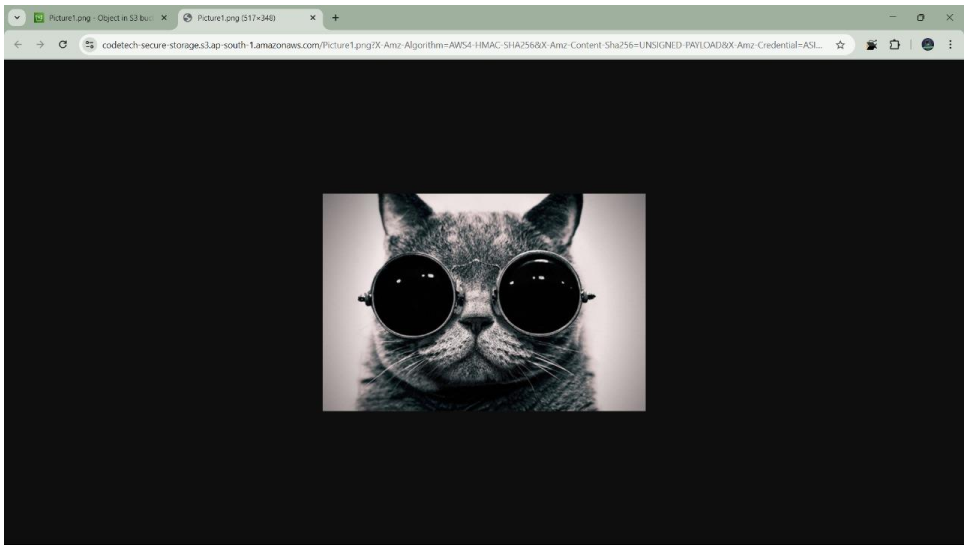
4. Integrated GCP Storage in AWS Web Page

• Updated index.html to embed GCP-hosted image:

• Refreshed EC2 URL: http://15.207.223.7

• Confirmed that the image from GCP appeared on the AWS-hosted page





Conclusion

Successfully implemented a multi-cloud architecture with AWS EC2 serving a website and Google Cloud Storage delivering static content, demonstrating interoperability between cloud platforms.