Task 4: IAM Policies, Secure Storage, and Data Encryption

Objective

Implement and demonstrate key AWS security features including:

- IAM policy creation and enforcement
- S3 bucket-level access control
- Server-side data encryption

👤 IAM Policy

- Created an IAM user: codtech-user
- Attached custom policy allowing limited access to codtech-secure-bucket
- User can only perform GetObject and PutObject on that bucket

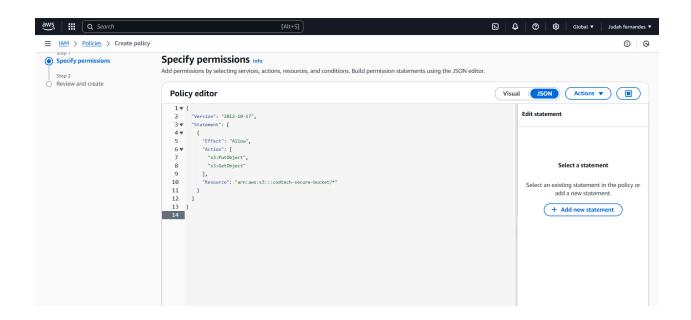
Secure Storage Setup (S3)

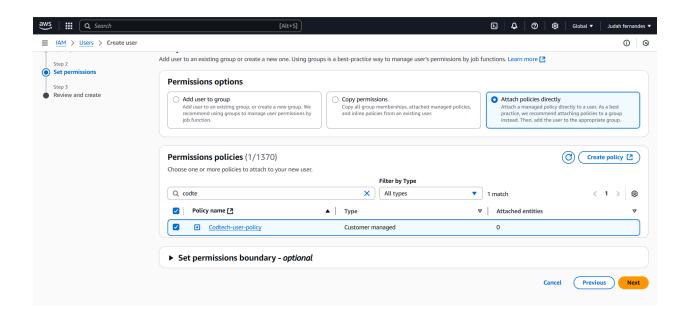
- Created a private S3 bucket: codtech-secure-bucket
- Blocked all public access
- Uploaded sample file: confidential.txt

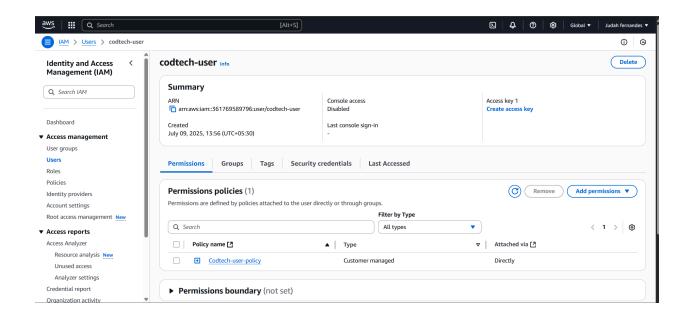
Data Encryption

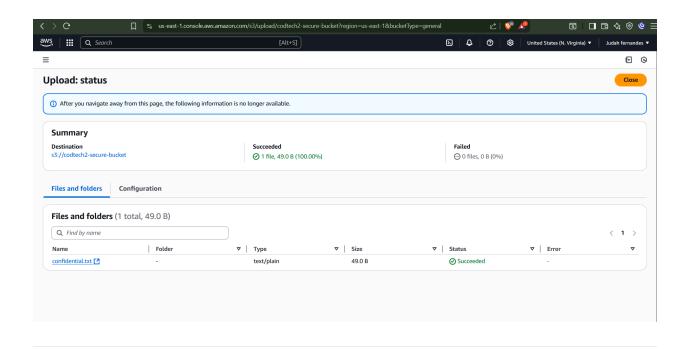
- Enabled AES-256 encryption at rest for all objects
- · Verified encryption in the object metadata

Screenshots









Completed

77 Date: [9th July 2025]

Platform: AWS

Skills Demonstrated: IAM roles, least-privilege access, S3 bucket policy, server-side encryption