

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: `IAM-user`
 - Attached custom policy allowing limited access to `abdul2000.bucket`
 - User can only perform `GetObject` and `PutObject` on that bucket
-

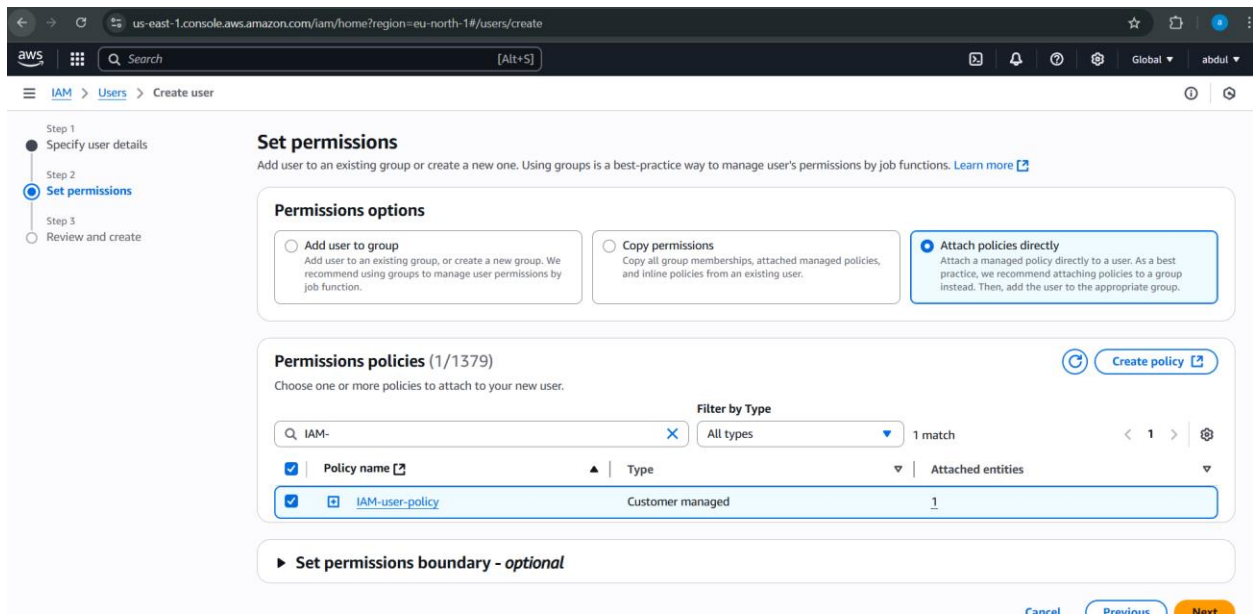
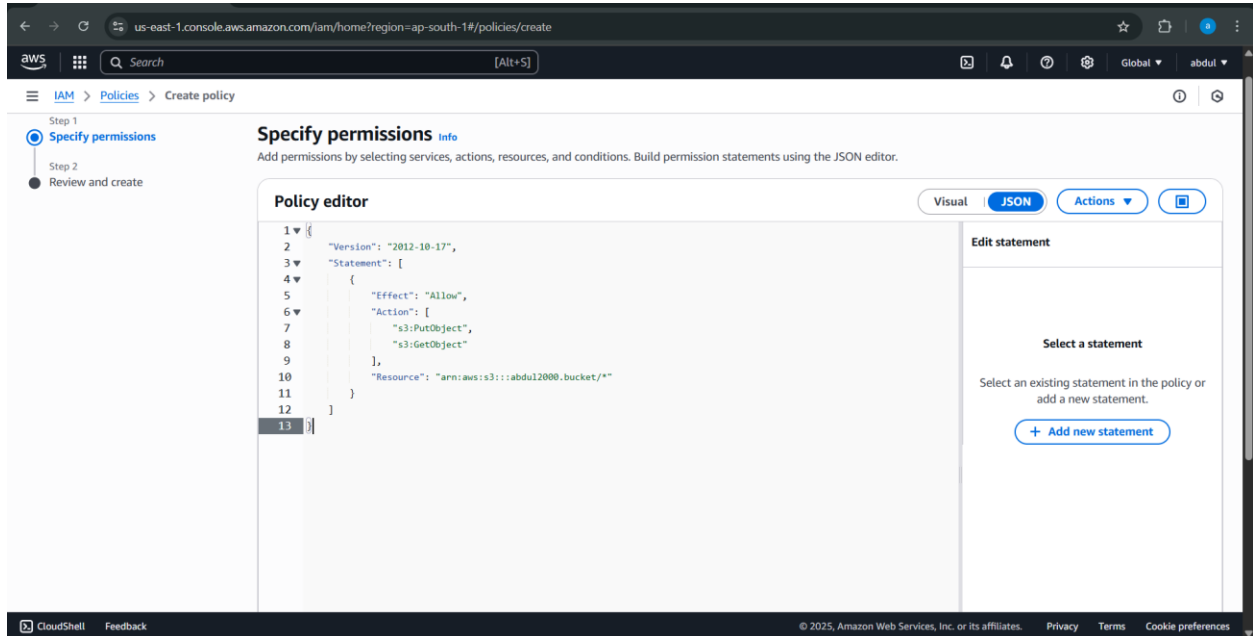
Secure Storage Setup (S3):

- Created a private S3 bucket: `abdul2000.bucket`
 - Blocked all public access
 - Uploaded sample file: `document.txt`
-

Data Encryption:

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

Screenshots:



us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users/details/IAM-user?section=permissions

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users**
- Roles
- Policies
- Identity providers
- Account settings
- Root access management [New](#)

Access reports

- Access Analyzer
- Resource analysis [New](#)
- Unused access
- Analyzer settings
- Credential report

IAM-user info

Summary

ARN: [arn:aws:iam::158954239082:user/IAM-user](#)

Console access: Disabled

Access key 1: [Create access key](#)

Created: July 19, 2025, 13:11 (UTC+03:00)

Last console sign-in: -

Permissions

Permissions policies (1)

Permissions are defined by policies attached to the user directly or through groups.

Search:

Filter by Type: All types

<input type="checkbox"/>	Policy name ?	Type	Attached via ?
<input type="checkbox"/>	IAM-user-policy	Customer managed	Directly

Permissions boundary (not set)

CloudShell Feedback

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eu-north-1.console.aws.amazon.com/s3/upload/iam1-user-bucket?region=eu-north-1&bucketType=general

Upload: status

After you navigate away from this page, the following information is no longer available.

Summary

Destination: [s3://iam1-user-bucket](#)

Succeeded: [1 file, 1.1 KB \(100.00%\)](#)

Failed: [0 files, 0 B \(0%\)](#)

Files and folders

Files and folders (1 total, 1.1 KB)

Find by name:

Name	Folder	Type	Size	Status	Error
document.txt	-	text/plain	1.1 KB	Succeeded	-

✓ **Completed**

📅 Date: [19th July 2025]

📍 Platform: AWS

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

