Name: Amar Kishor Kalbande

Internship: Cloud Computing Virtual Internship (CODTECH)

TASK 3 - Multi-Cloud Storage Using AWS S3 and Microsoft Azure Blob Storage

INTERN ID: CT04DR2400

Cloud Plarform: Amazon Web Services (AWS) and AZURE

Duration: 1 MONTH

1. Aim

The aim of this task is to understand and implement **basic storage services in a multi-cloud environment** by using **Amazon Web Services (AWS)** and **Microsoft Azure**.
This task demonstrates how cloud storage works across different cloud providers.

2. Objective

- To create and use **AWS S3 bucket** for object storage
- To create and use **Azure Blob Storage (Storage Account)**
- To upload files to cloud storage
- To understand **basic security settings**
- To visualize a **multi-cloud architecture**

3. Cloud Services Used

Amazon Web Services (AWS)

- Amazon S3 (Simple Storage Service)

Microsoft Azure

- Azure Blob Storage (Storage Account – StorageV2)

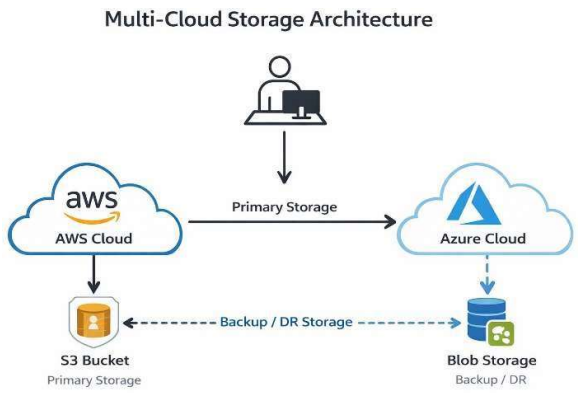
4. System Requirements

- AWS Free Tier Account
- Azure for Students / Free Azure Account
- Internet connection
- Web browser (Chrome / Edge)

5. Architecture Overview

This task follows a **multi-cloud storage architecture** where:

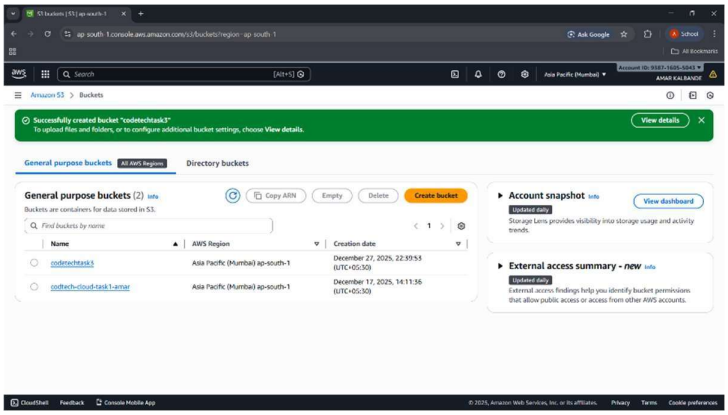
- AWS S3 stores files in AWS cloud
- Azure Blob Storage stores files in Azure cloud
- User accesses both cloud platforms independently



6. Implementation Steps

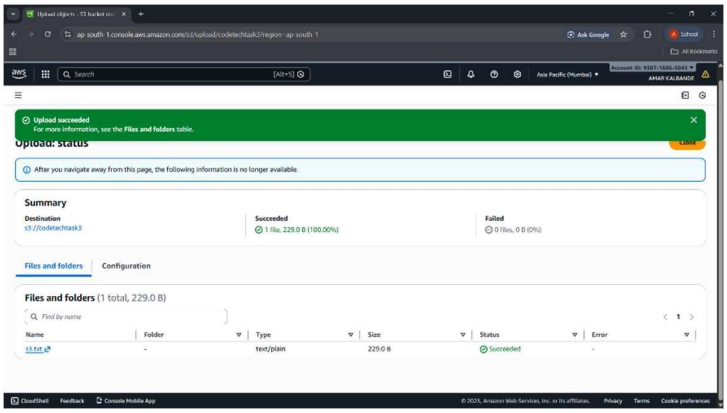
6.1 AWS S3 Bucket Creation

1. Logged in to AWS Management Console
2. Navigated to **Amazon S3**
3. Created a new bucket named **codetechtask3**
4. Selected region **Asia Pacific (Mumbai – ap-south-1)**
5. Enabled **Block all public access**



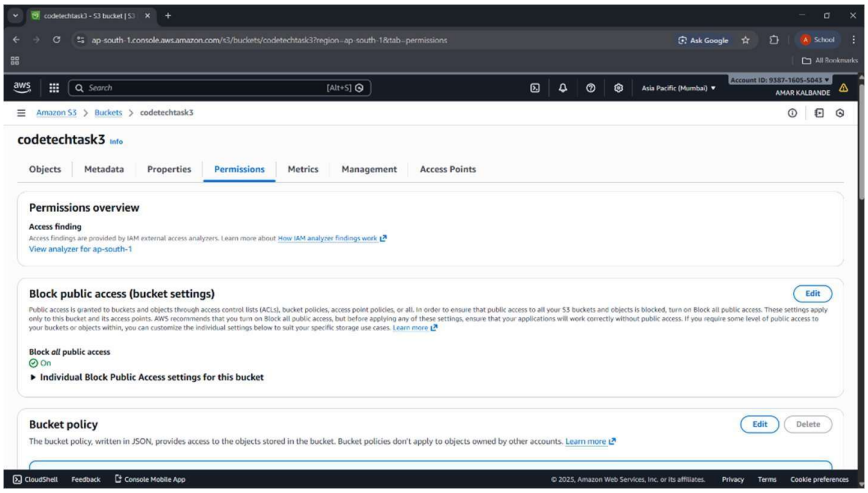
6.2 Uploading File to AWS S3

1. Opened the created S3 bucket
2. Uploaded a file named **s3.txt**
3. Verified successful upload



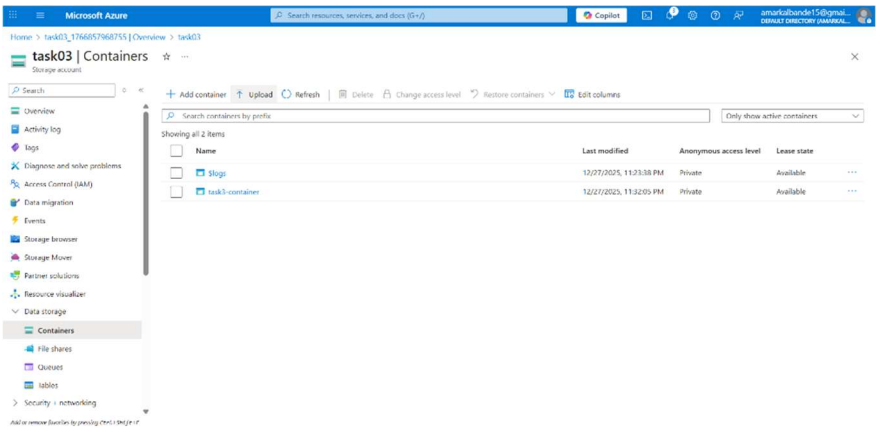
6.3 AWS S3 Security Configuration

1. Opened **Permissions** tab of the bucket
2. Verified **Block Public Access = ON**
3. Bucket policy not exposed publicly



6.4 Azure Storage Account Creation

1. Logged in to Microsoft Azure Portal
2. Created a **Storage Account**
3. Selected:
    - Resource Group
    - Location: Central India
    - Storage type: **StorageV2**
4. Storage account created successfully



7. Learning Outcomes

From this task, the following concepts were learned:

- Basics of **cloud object storage**
- Difference between **AWS S3 and Azure Blob Storage**
- Uploading and managing files in cloud
- Importance of **security and access control**
- Understanding **multi-cloud architecture**
- Hands-on experience with **two cloud providers**

8. Conclusion

This task successfully demonstrated the use of **multi-cloud storage services** using AWS and Azure.
Files were securely stored in AWS S3 and Azure Blob Storage.
The task helped in understanding real-world cloud storage concepts and provided practical exposure to multi-cloud environments.