

Placement Empowerment Program

Cloud Computing and DevOps Centre

Use Cloud Storage

Create a storage bucket on your cloud platform and upload/download files. Configure access permissions for the bucket.

Name: Joan Festina J

Department:ECE

Introduction and Overview

In this (PoC), we will explore AWS S3 (Simple Storage Service) to understand its functionality as a reliable cloud storage solution. The task involves creating an S3 bucket, uploading and downloading files, and configuring access permissions to manage who can access the stored data. This PoC demonstrates S3's versatility in securely storing and retrieving files, both publicly and privately. We will also set bucket policies to control access and test public URLs for hosted files. By completing this task, we gain hands-on experience with S3 and its key features, such as scalability, security, and cost-efficiency.

Objective

The goal of this project is to:

1. **Understand AWS S3 Basics:** Learn how to create, configure, and manage an S3 bucket for cloud storage.
2. **File Operations:** Gain hands-on experience in uploading, downloading, and managing files within the S3 bucket.
3. **Access Control:** Configure bucket policies and permissions to manage secure and public access to stored data.

Importance of Storage Bucket(S3)

Foundation for Advanced Use Cases: Learning how to handle S3 storage is a stepping stone for mastering cloud computing and deploying large-scale applications.

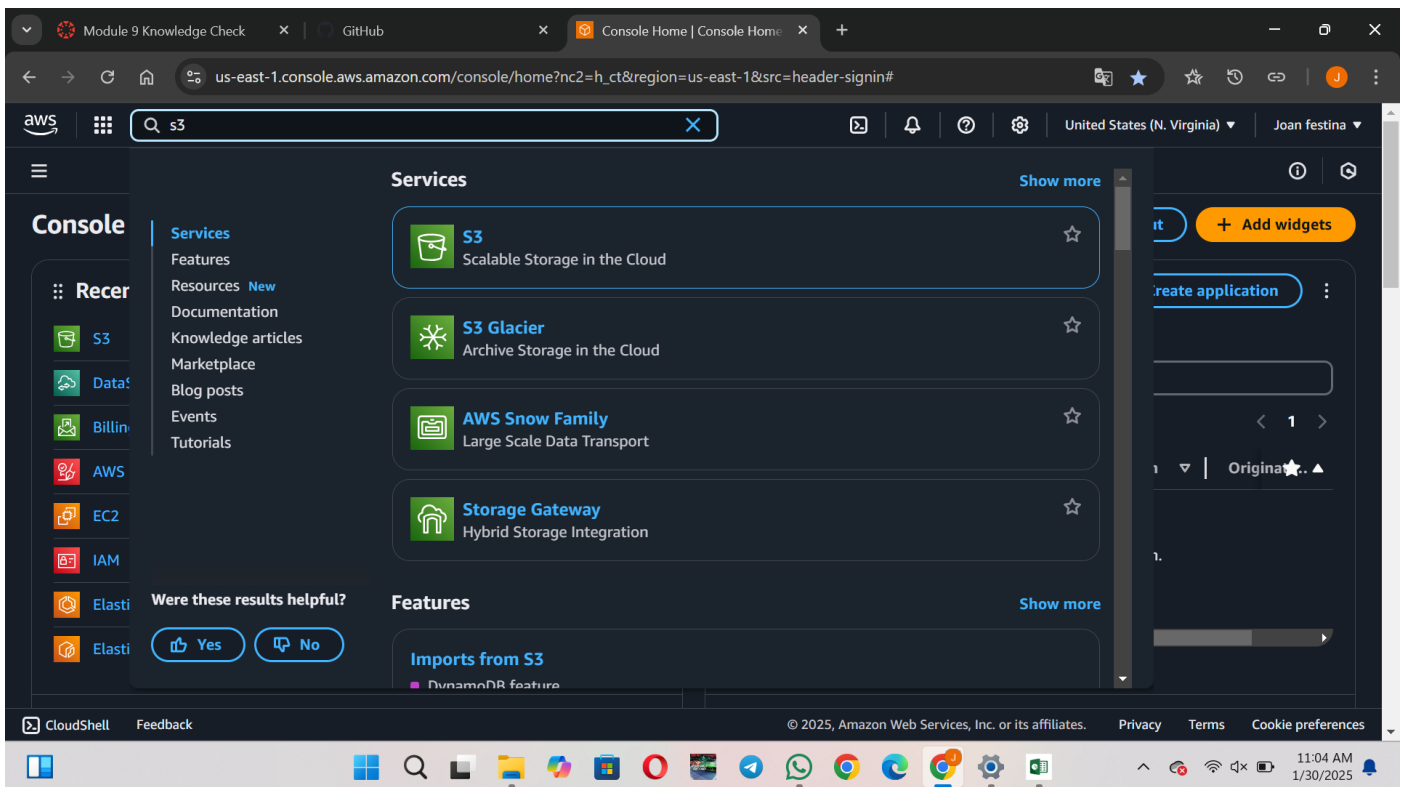
Hands-On Learning of Cloud Storage: AWS S3 provides a practical platform to learn cloud storage concepts, enabling users to create buckets, upload/download files, and manage data at scale.

Data Security and Access Control: By configuring bucket policies and permissions, users can secure their data and manage who can access it.

Step-by-Step Overview

Step1:

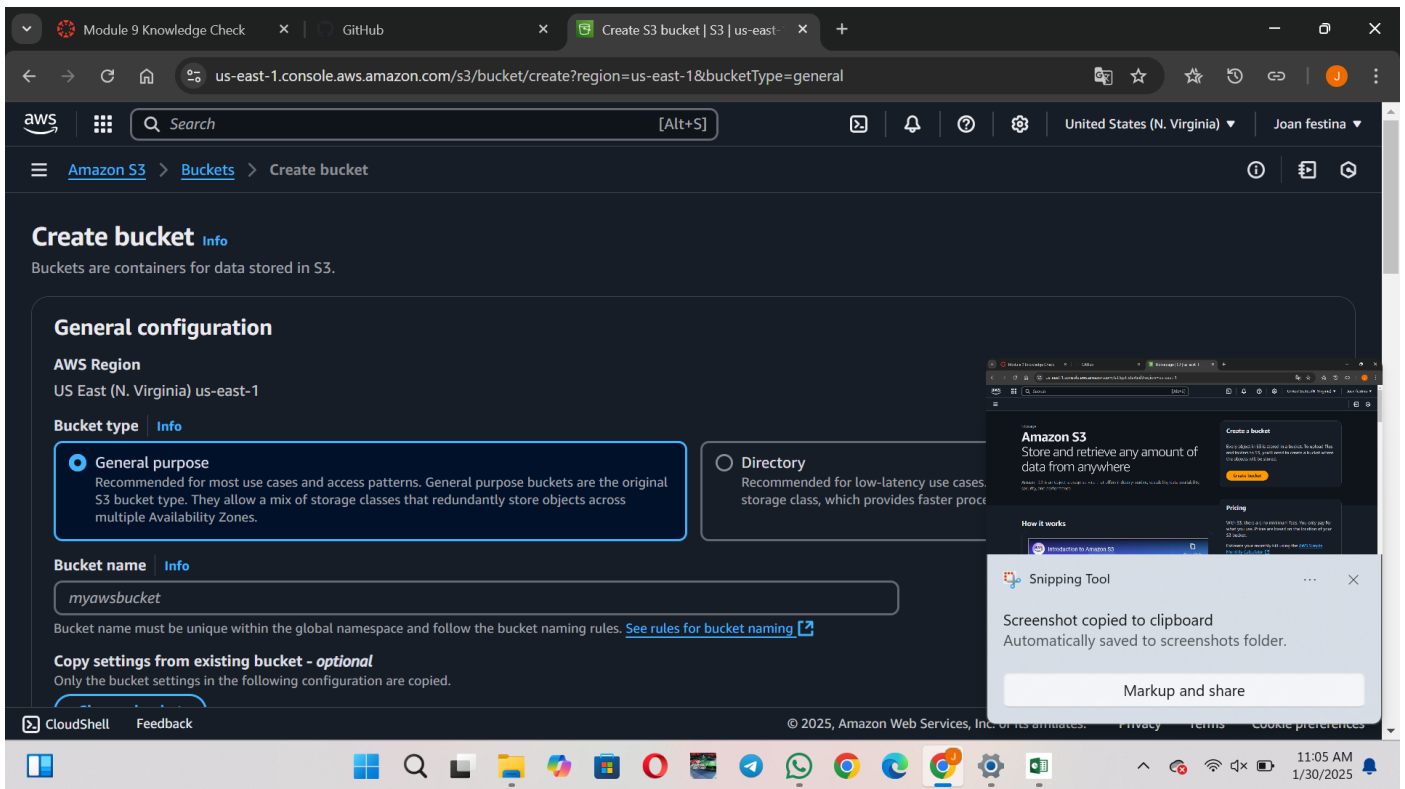
Go to the AWS Management Console, Search for and click on S3



Step 2 :

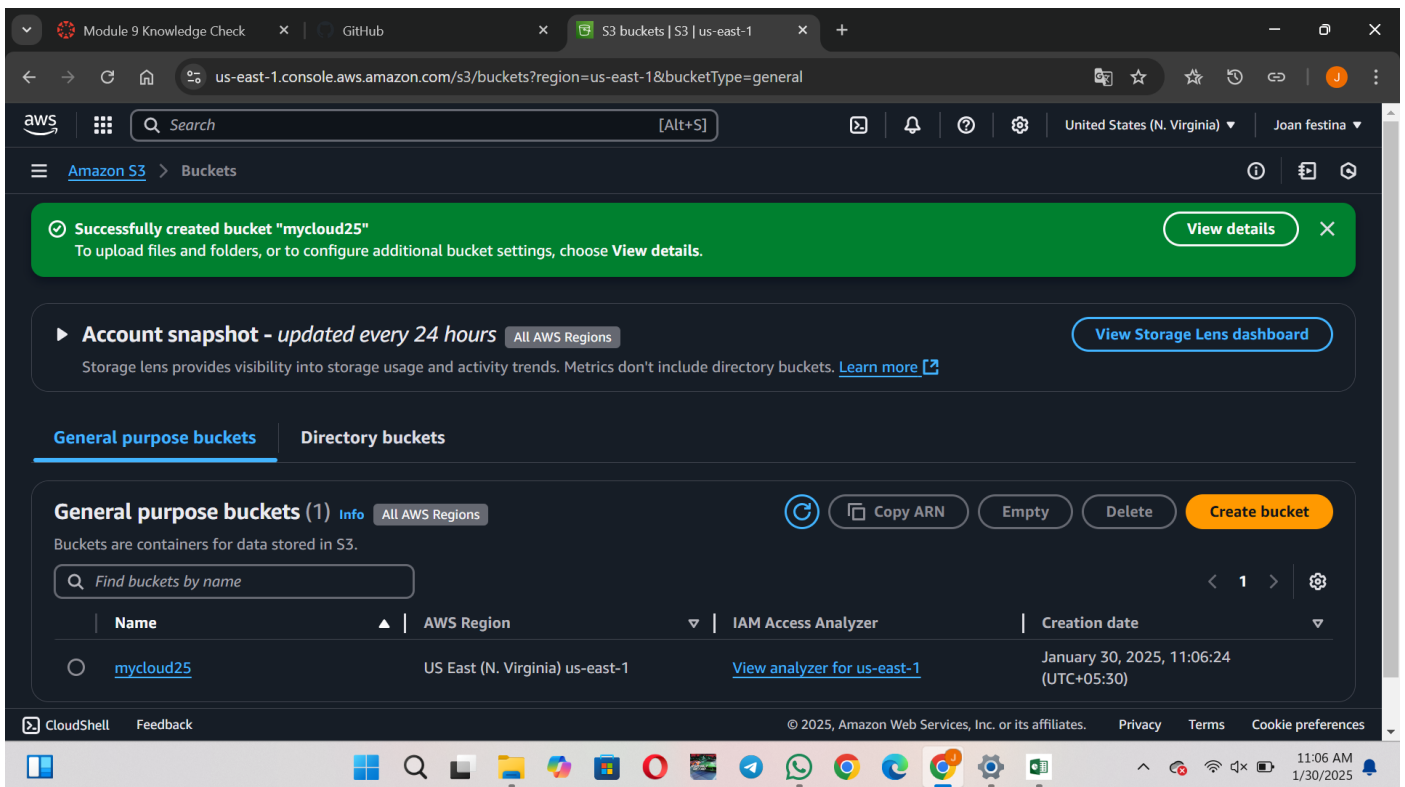
Click the "Create bucket" button.

Enter a unique bucket name (e.g., my-storage-bucket-123).



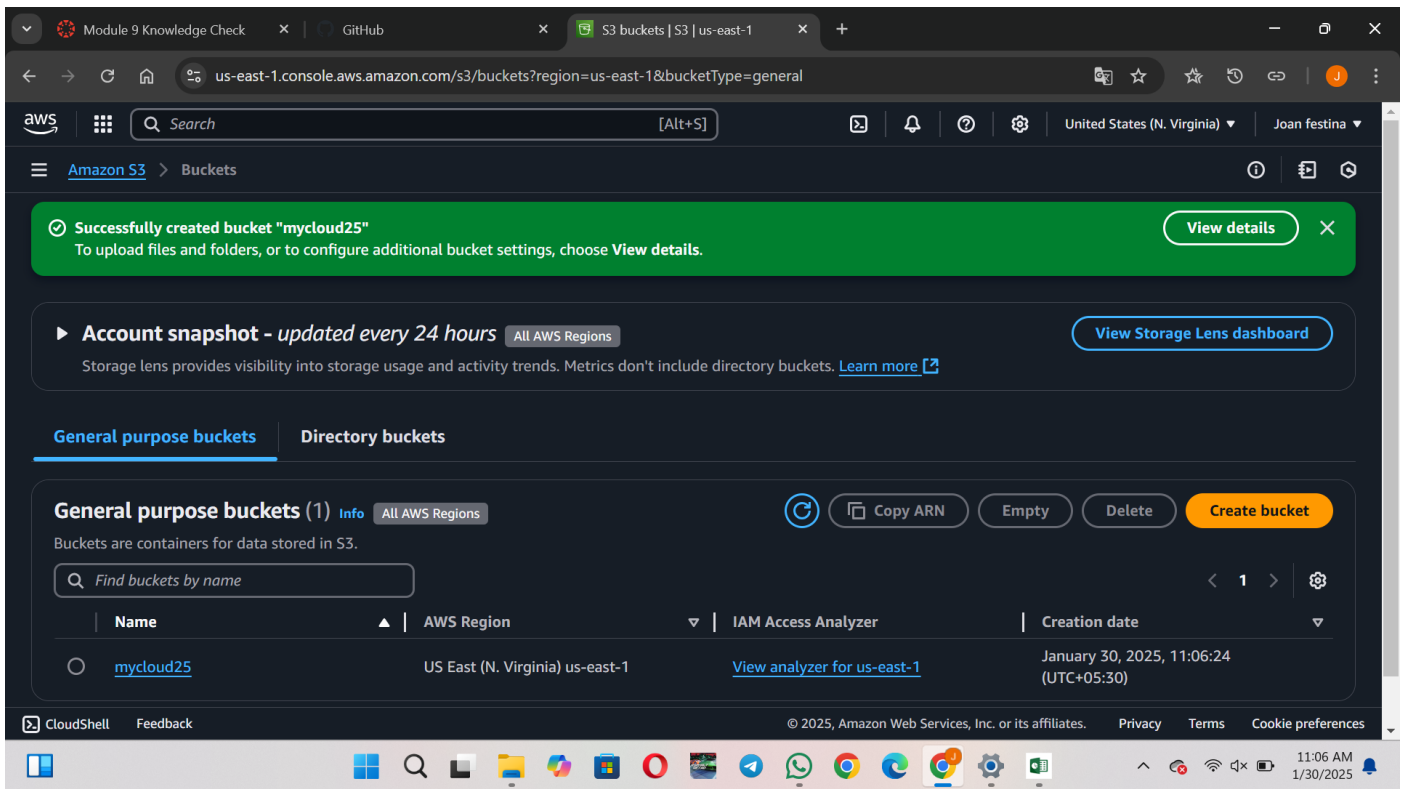
Step 3 :

Leave "Block all public access" enabled for now (you can modify it later).



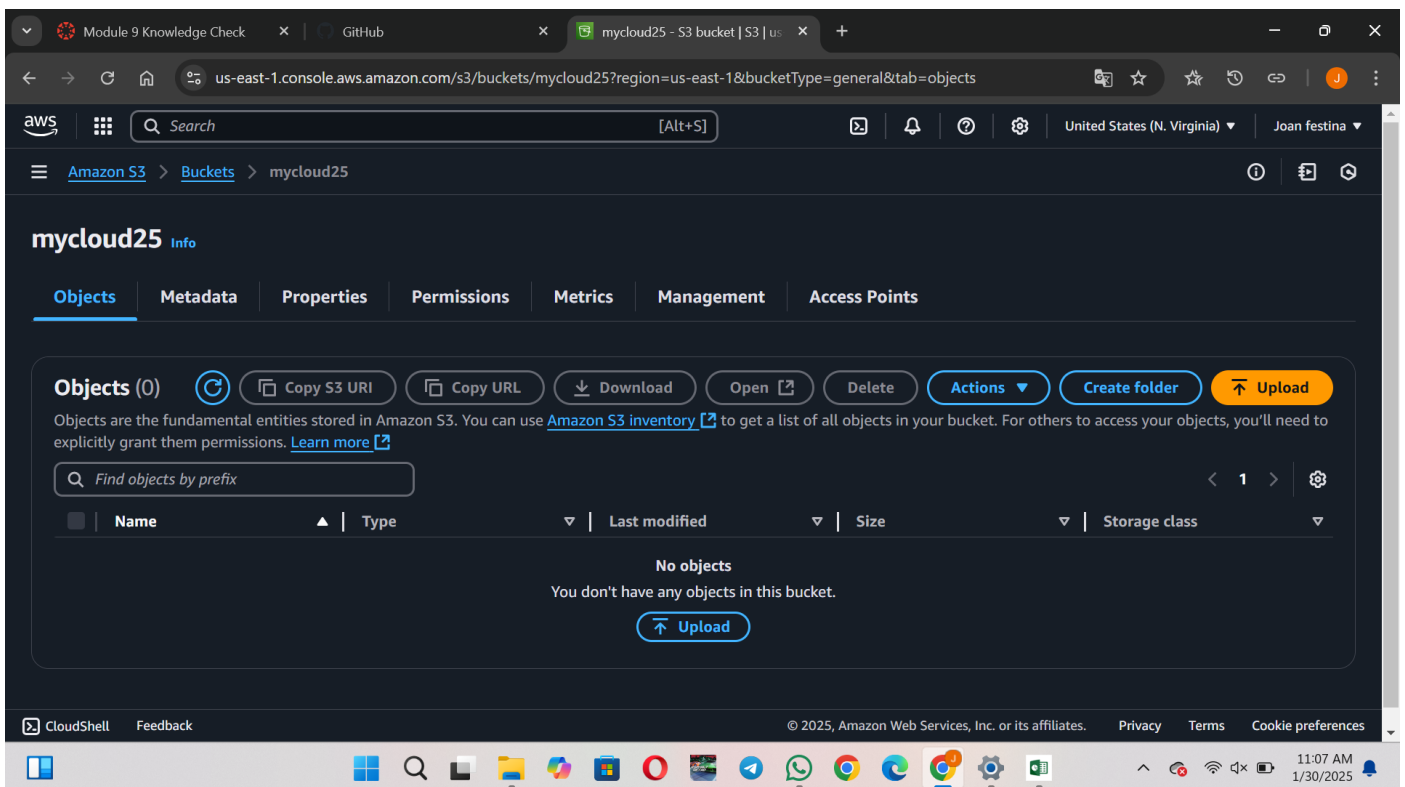
Step 4 :

Click "Create bucket".



Step 5 :

Open your newly created bucket from the S3 console.



Step 6 :

Click "Upload" and then,

Drag and drop your file(s) or use the Add files button. Click Upload to complete.

The screenshot shows the AWS S3 Upload console. The breadcrumb navigation is [Amazon S3](#) > [Buckets](#) > [mycloud25](#) > Upload. The page title is "Upload" with an "Info" link. A message states: "Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDKs or Amazon S3 REST API. [Learn more](#)". Below this is a dashed box with the text: "Drag and drop files and folders you want to upload here, or choose [Add files](#) or [Add folder](#)." The "Files and folders" section shows 1 total file, 221.7 KB. A table lists the file: "One Page Student Template_Second ..." with type "application/pdf" and size "221.7 KB". Buttons for "Remove", "Add files", and "Add folder" are present. The "Destination" section shows the path "s3://mycloud25".

Files and folders (1 total, 221.7 KB)

All files and folders in this table will be uploaded.

<input checked="" type="checkbox"/>	Name	Folder	Type	Size
<input checked="" type="checkbox"/>	One Page Student Template_Second ...	-	application/pdf	221.7 KB

Destination Info

Destination

[s3://mycloud25](#)

The screenshot shows the AWS S3 Upload console after a successful upload. A green banner at the top says "Upload succeeded" with a checkmark icon and the text "For more information, see the **Files and folders** table." Below the banner, a summary table shows: "Destination: s3://mycloud25", "Succeeded: 1 file, 221.7 KB (100.00%)", and "Failed: 0 files, 0 B (0%)". The "Files and folders" tab is selected, showing the same file list as before, but with a "Status" column. The file "One Page Student Template..." is marked as "Succeeded".

Upload succeeded

For more information, see the **Files and folders** table.

Destination	Succeeded	Failed
s3://mycloud25	1 file, 221.7 KB (100.00%)	0 files, 0 B (0%)

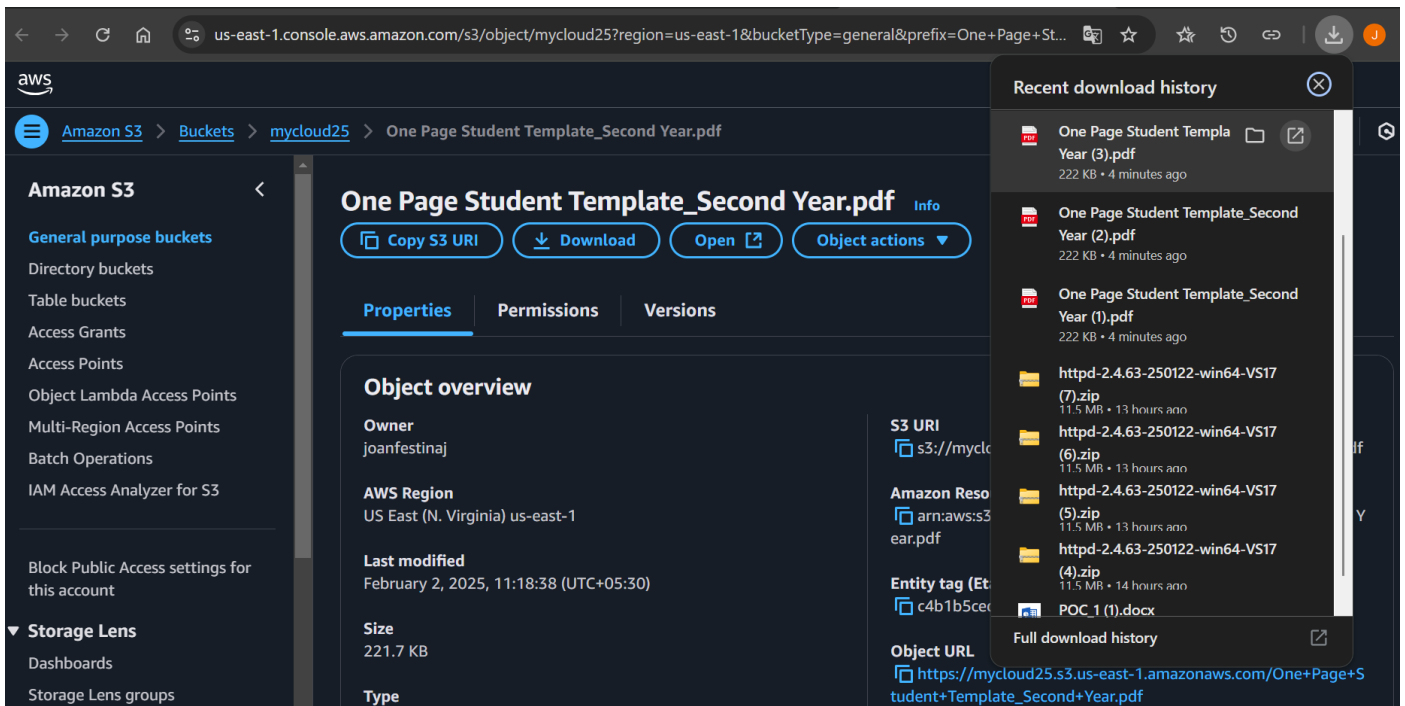
Files and folders (1 total, 221.7 KB)

Name	Folder	Type	Size	Status	Error
One Page Student Templ...	-	application/pdf	221.7 KB	Succeeded	-

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Step 7 :

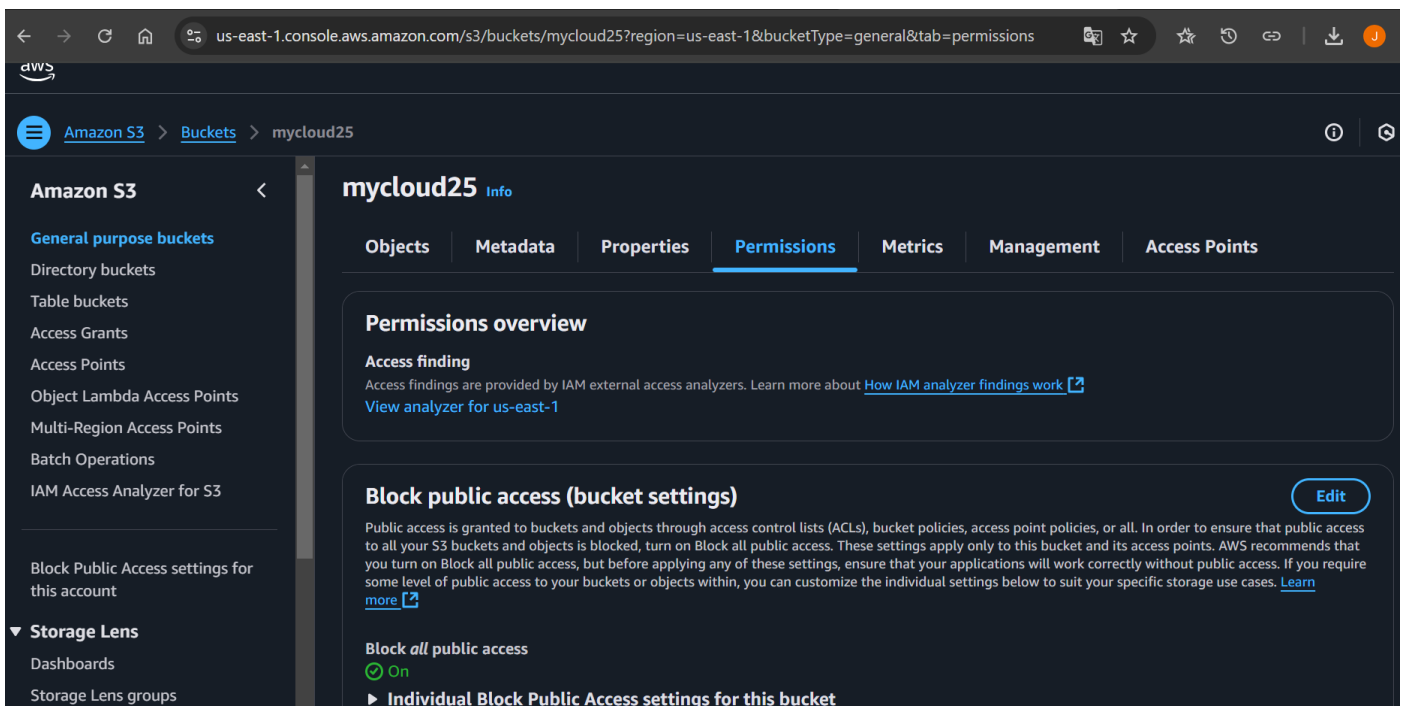
Go to the uploaded file in your bucket. Click the file name to open its details. Select Download to save the file locally.

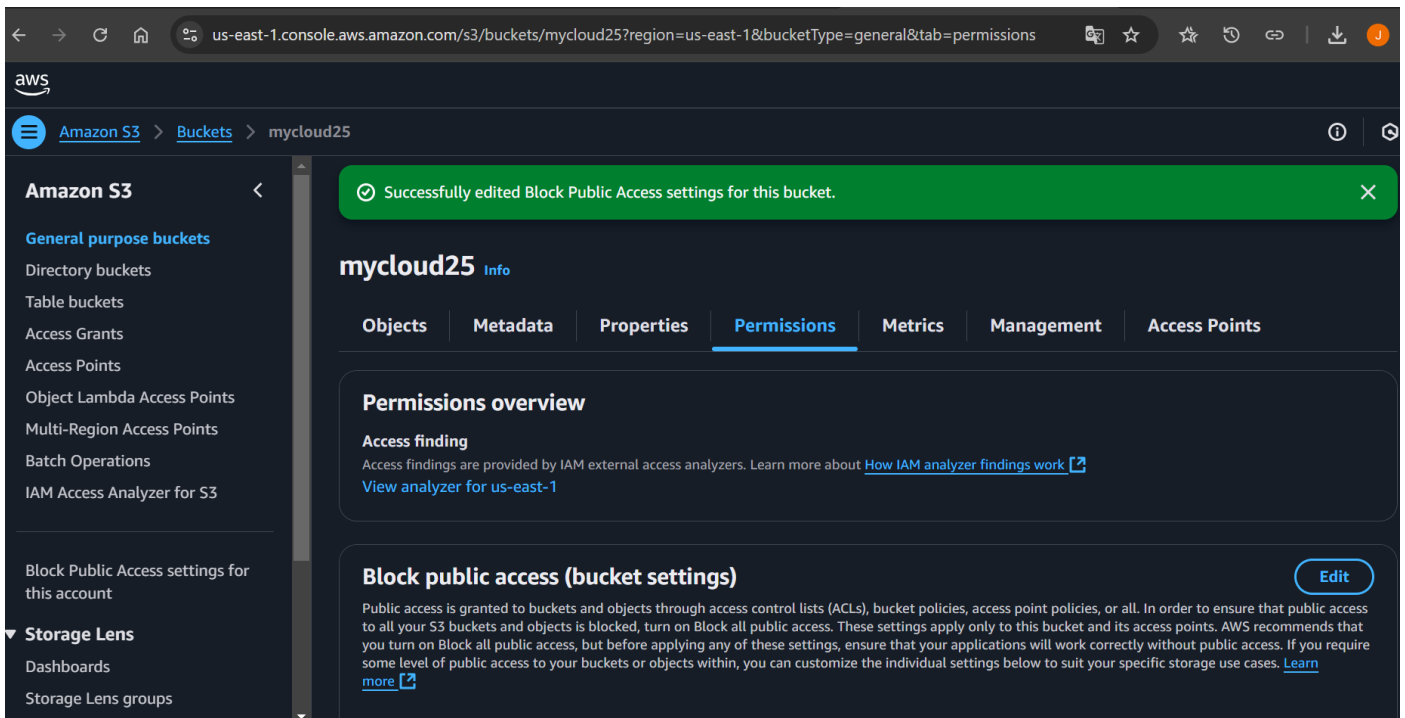


Step 8 :

Open your bucket and navigate to the "Permissions" tab.

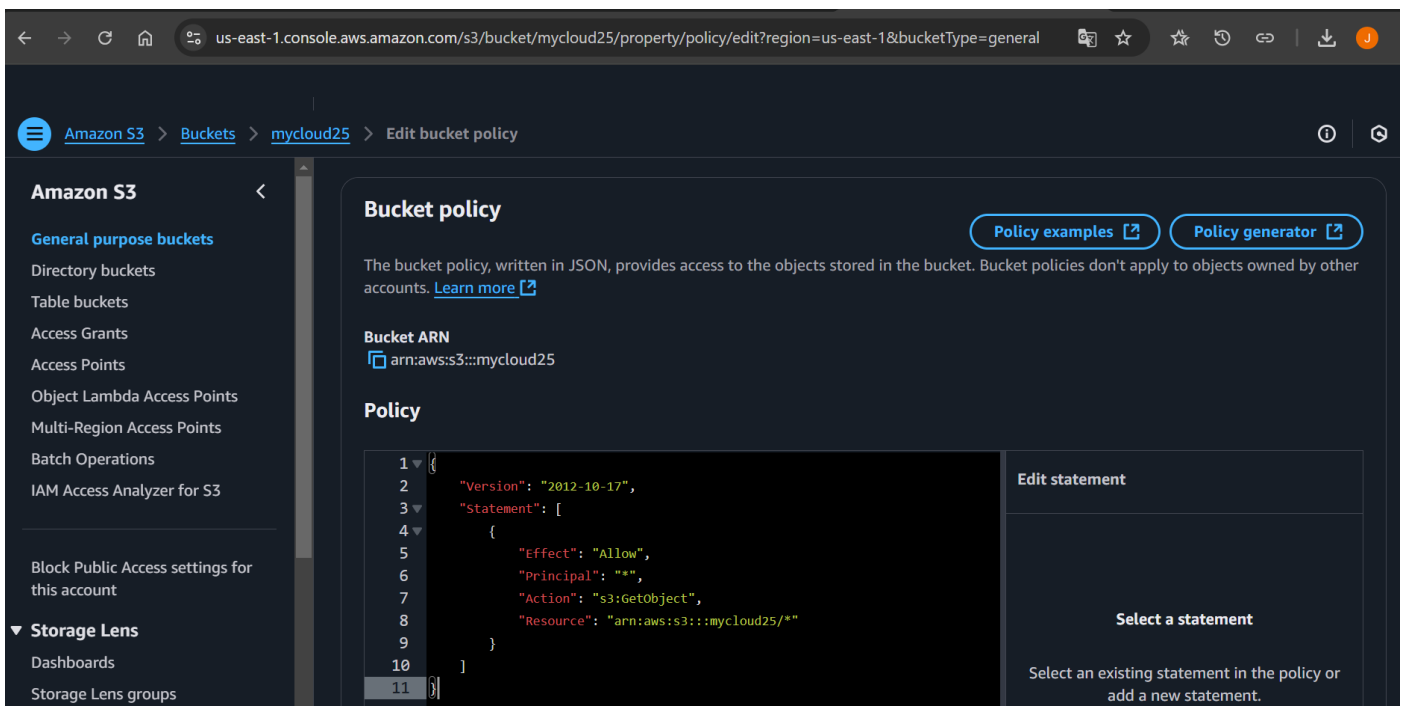
Under Block public access, click Edit and uncheck "Block all public access". Confirm by typing "confirm" and save.

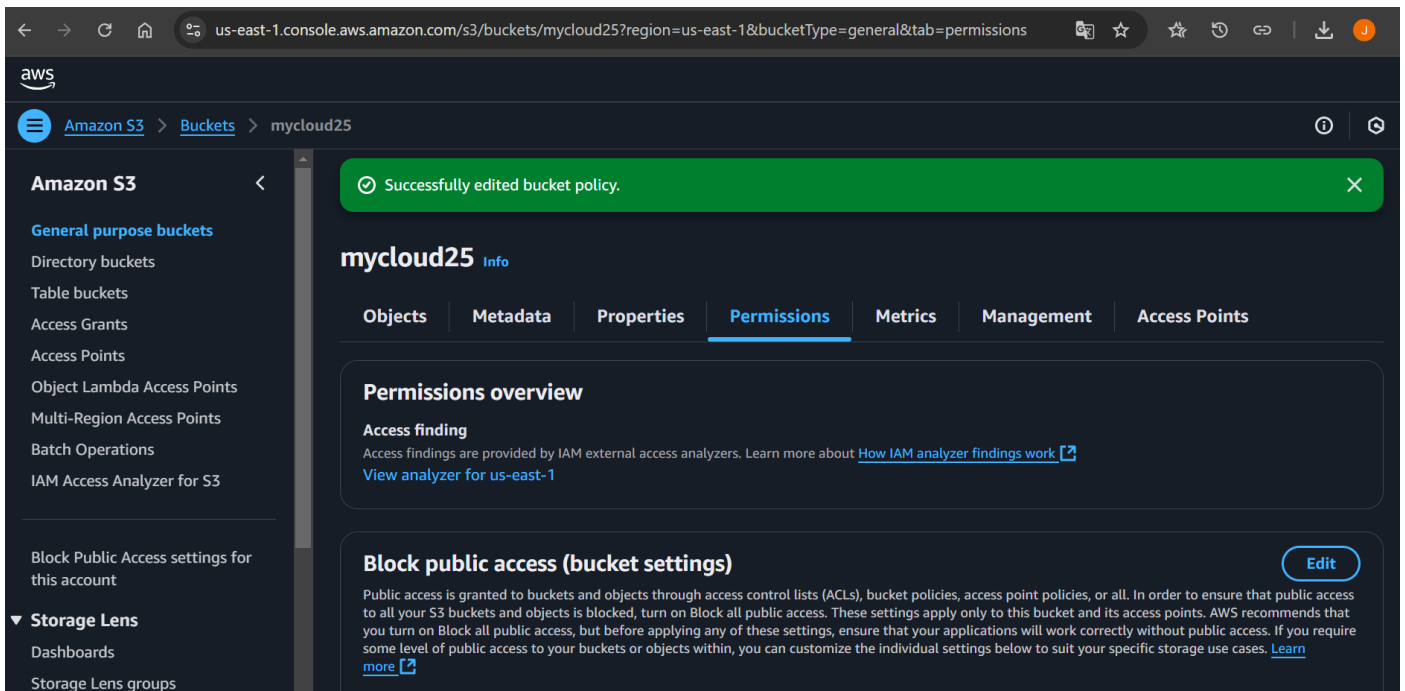




Step 9 :

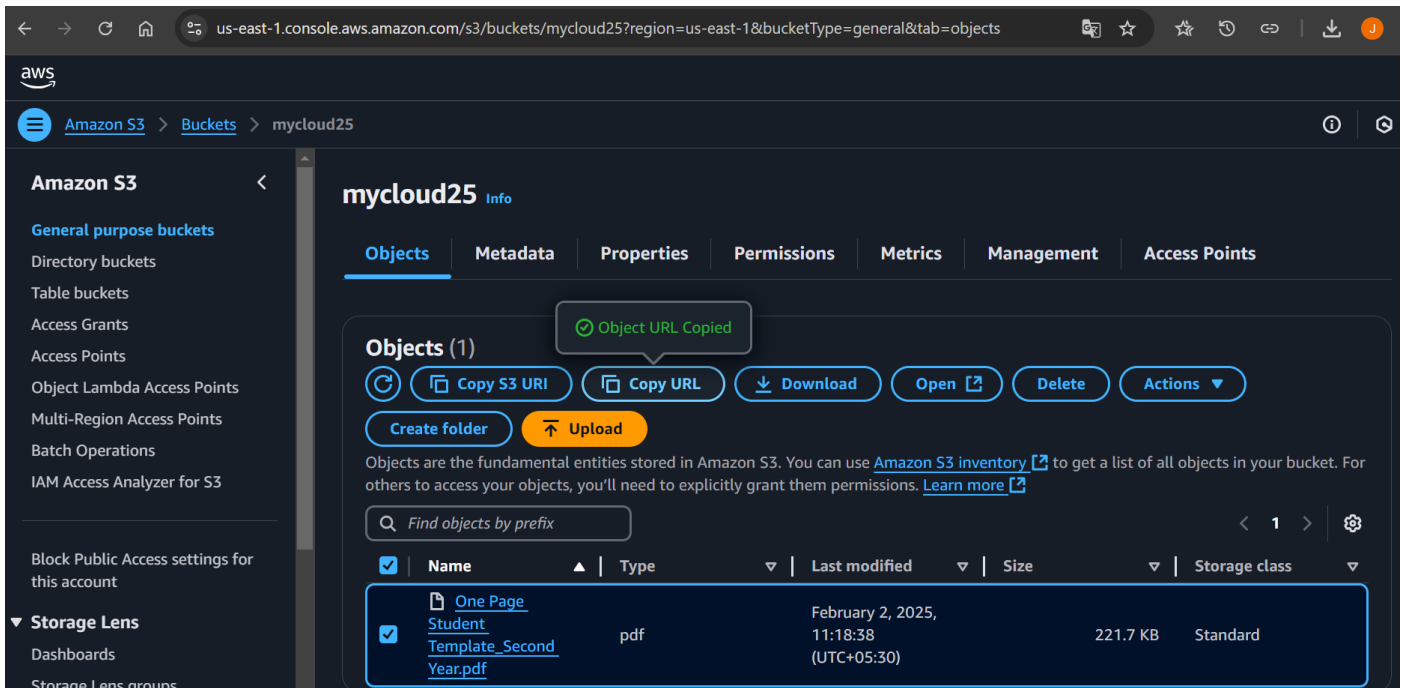
In the "Permissions" tab, scroll to Bucket Policy and click Edit. Replace your bucket-name with your actual bucket name. Save changes.

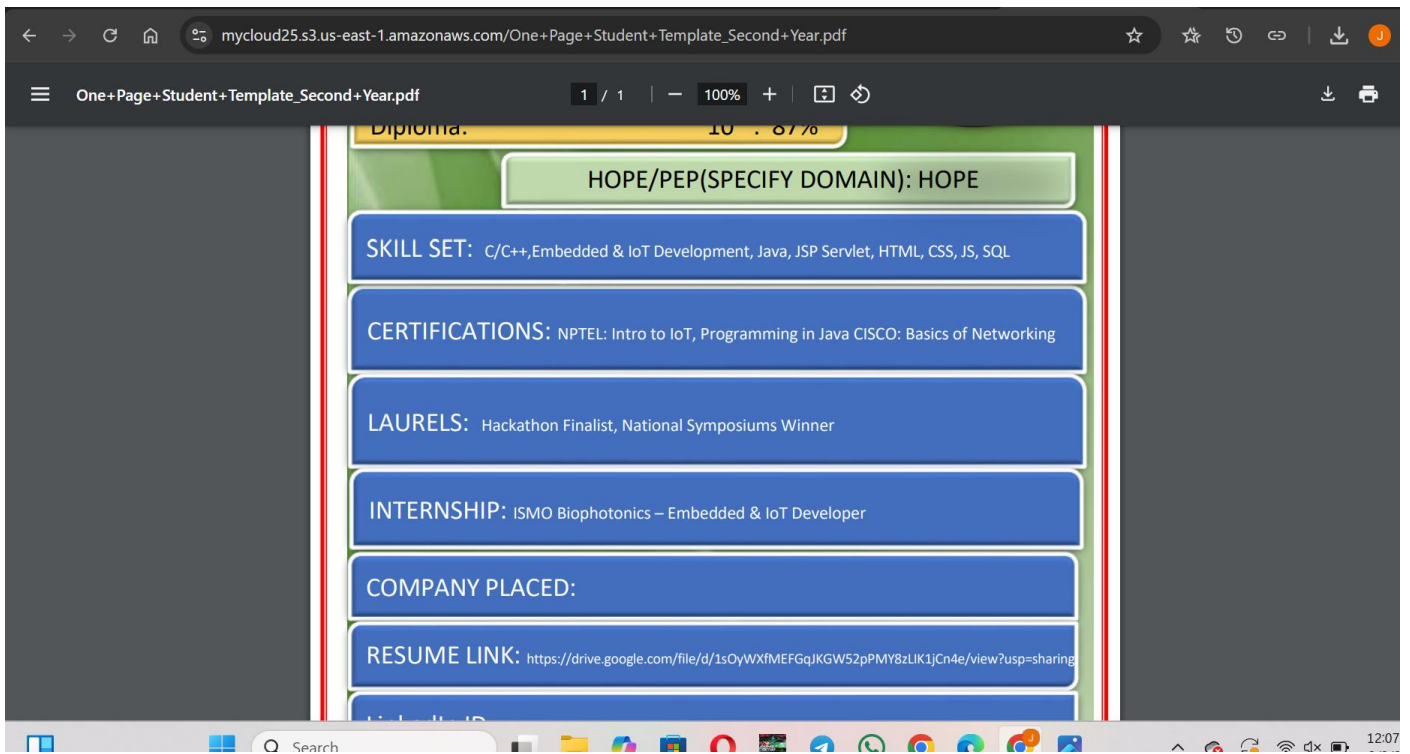




Step10:

Use the S3 bucket URL or public file URL to test access permissions.





Expected Outcome

By completing this POC, you will:

1. Successfully create an AWS S3 bucket and perform file upload/download operations.
2. Configure and validate access permissions, ensuring secure or public access as needed.
3. Gain a solid understanding of S3's functionality, enabling its use in real-world cloud-based applications.