

# **S3 - Simple Storage Service**

Day-3

S3 - Simple Storage Service (Storage Service)



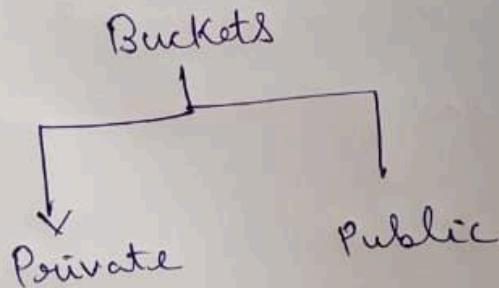
Bucket :-

The bucket name should be globally ~~defined~~ unique.



objects :-

It is an unstructured data.



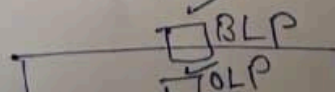
Bucket level permission

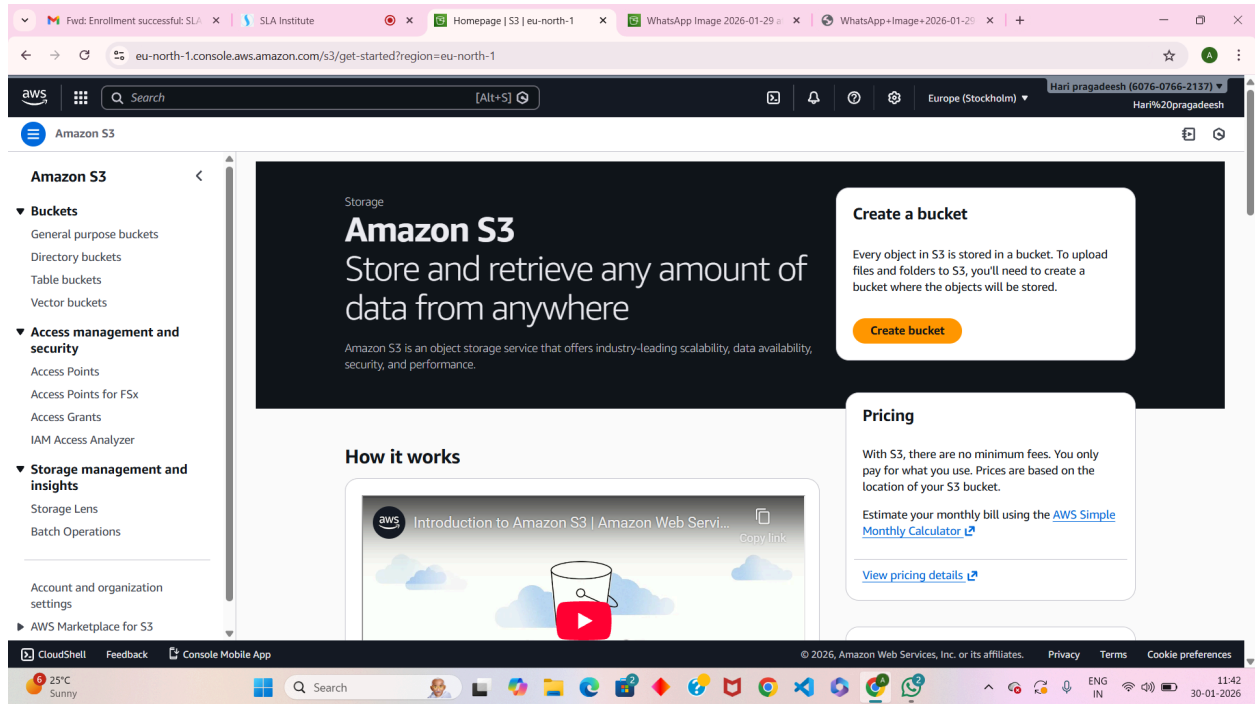
Object level permission.

Object ownership

AC - Access control.

S3 → Bucket → objects (unstructured)  
public bucket





Amazon S3 is an **object storage service** in AWS

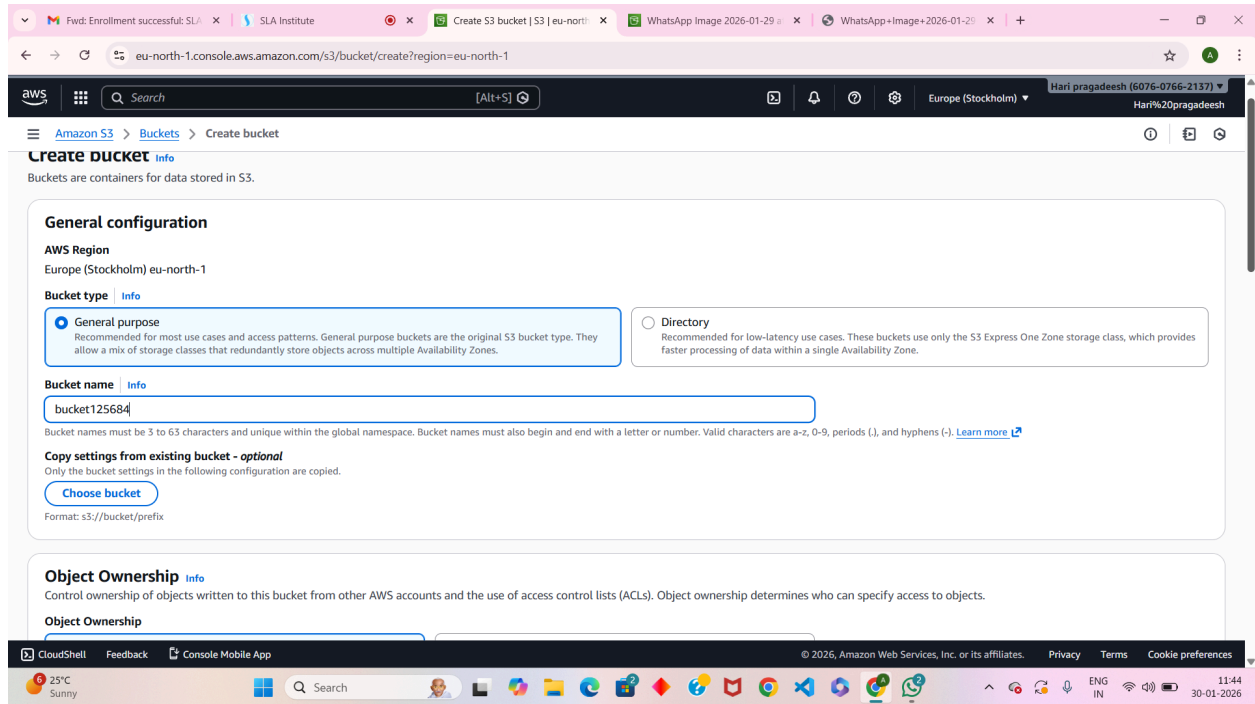
Used to **store and retrieve any amount of data**

Data is stored inside **buckets**

Supports **high scalability, security, and durability**

Option available to **create a new S3 bucket**

Pricing is **pay-as-you-use**, no minimum cost



AWS Region selected: **Europe (Stockholm) – eu-north-1**

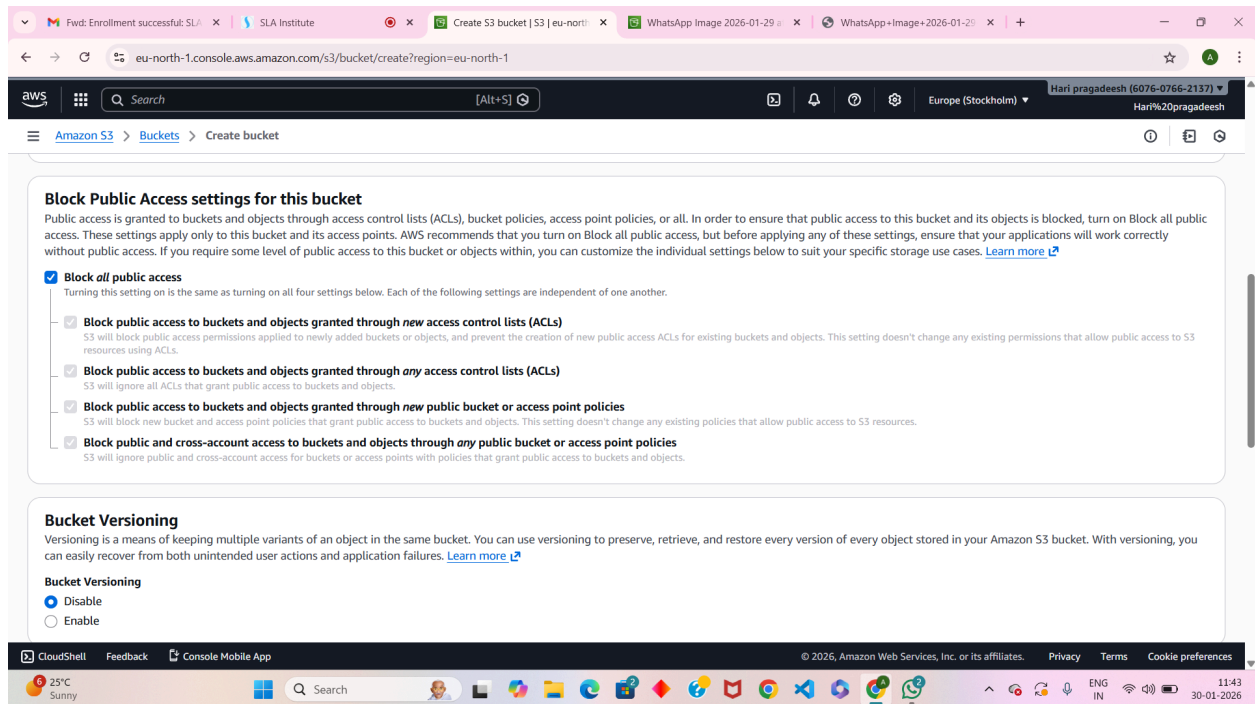
**General purpose bucket** selected

Suitable for most storage use cases

Bucket name: **bucket125684**

Bucket names must be **globally unique**

Option available to copy settings from an existing bucket



**Block all public access** is enabled (recommended for security)

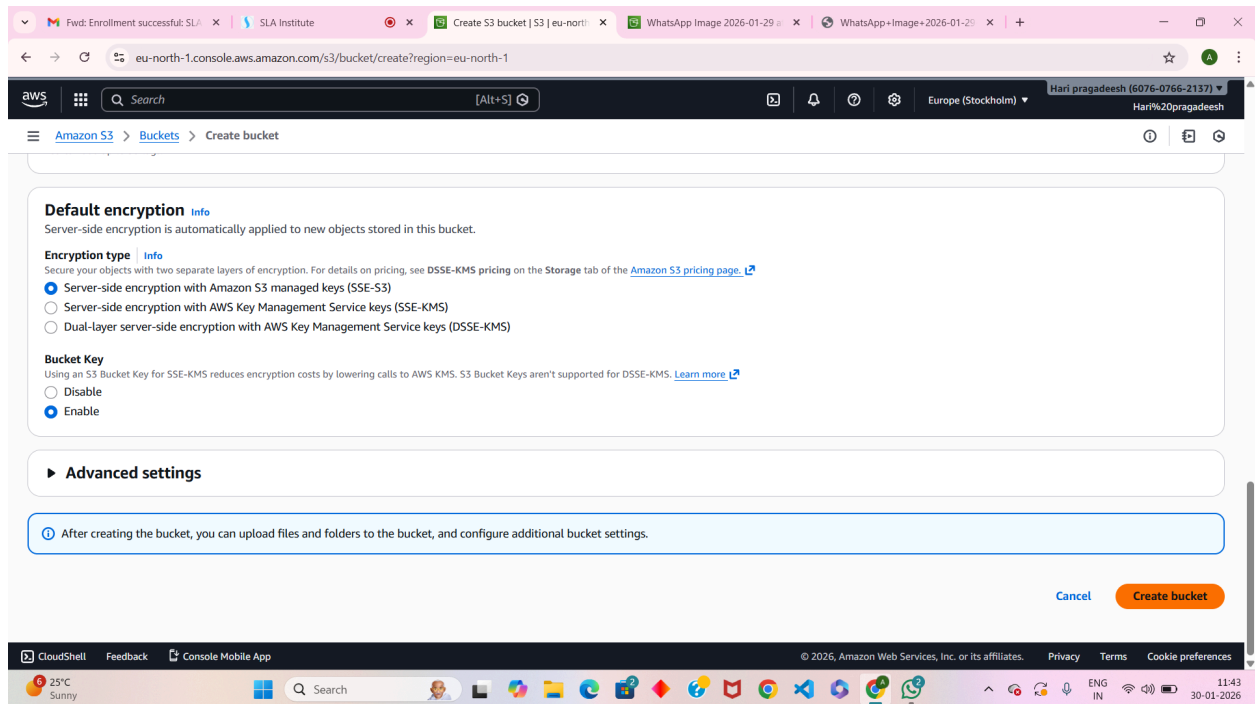
Prevents public access via:

- ACLs
- Bucket policies
- Access point policies

Ensures bucket data is **private and secure**

**Bucket Versioning** is disabled

Versioning (if enabled) helps recover **deleted or overwritten files**



Default encryption is **enabled automatically** for new objects

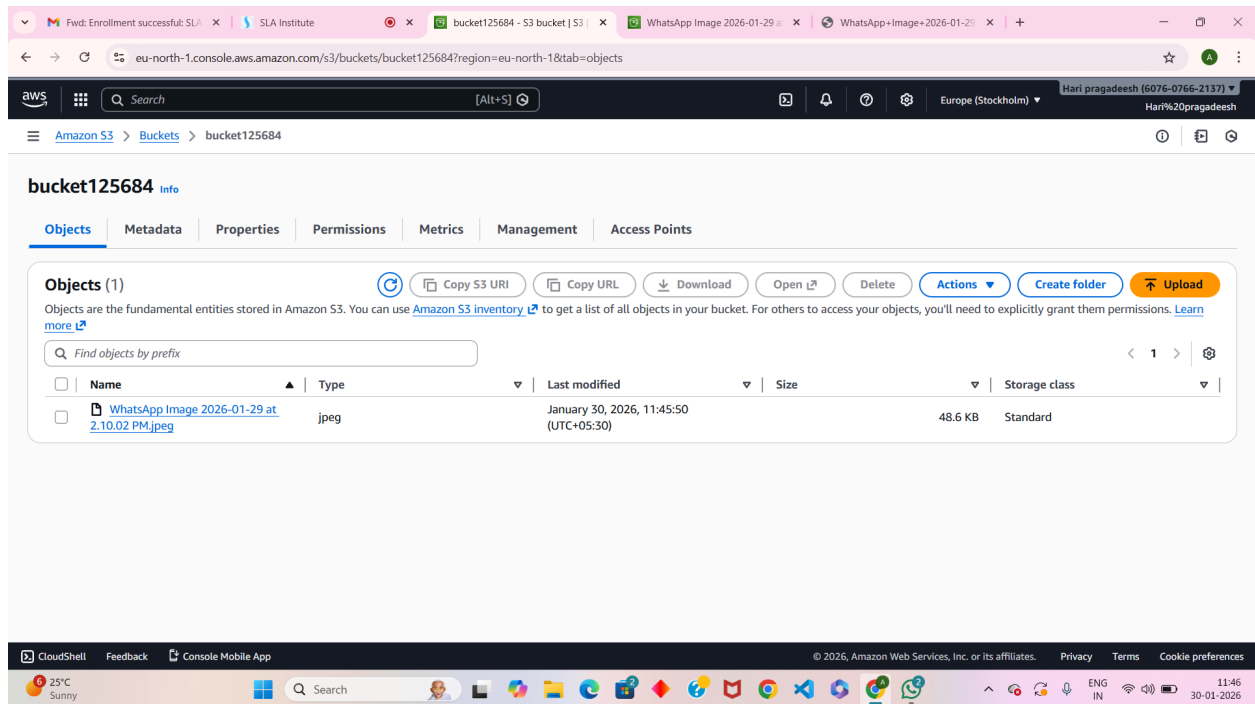
**SSE-S3 (Amazon S3 managed keys)** is selected

AWS manages encryption keys internally

No manual key management required

**Bucket Key enabled** to reduce encryption cost

Helps protect data **at rest**



Bucket name: **bucket125684**

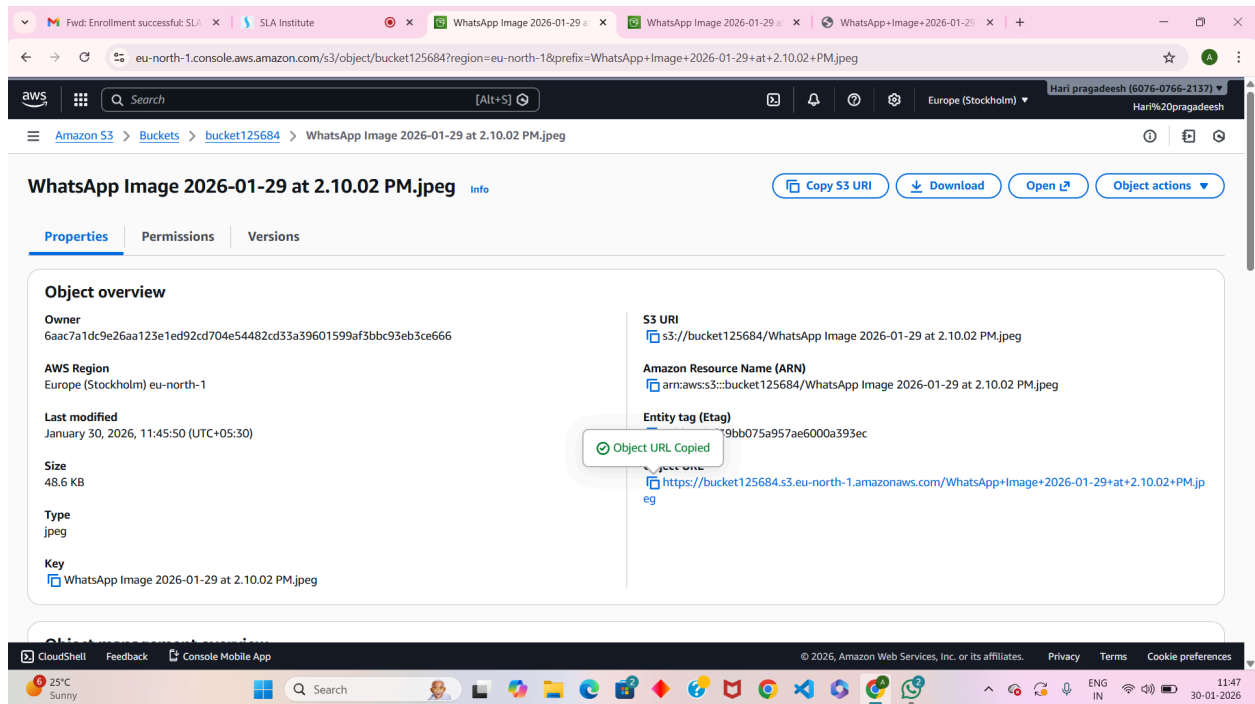
Shows list of stored **objects (files)**

One object uploaded (JPEG image)

Displays **file type, size, last modified time**

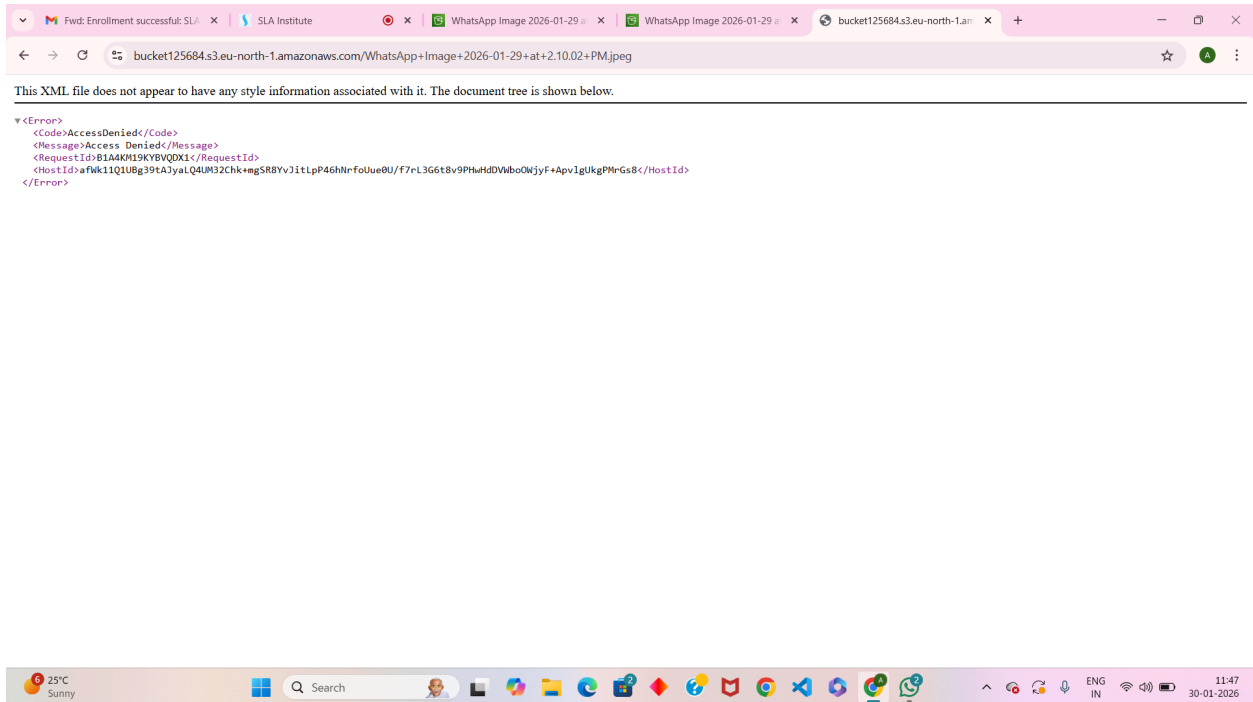
Storage class shown as **Standard**

Options available: Upload, Download, Delete, Copy URL

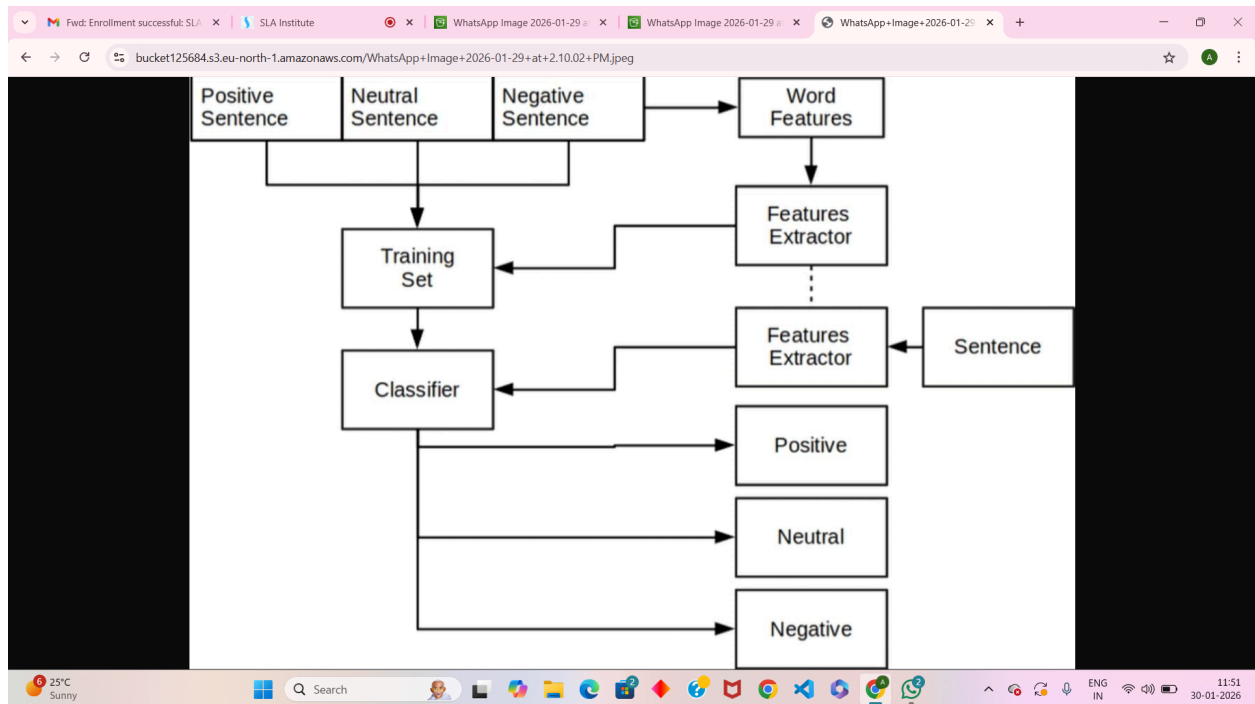


- Shows detailed information of a single object
- Object name: WhatsApp Image (JPEG)
- Displays **Owner, Region, Size, Type**
- Shows **S3 URI and ARN**
- Object URL is available
- Used for accessing or sharing object (with permission)





- Error message: **AccessDenied**
- Occurs because **public access is blocked**
- Object URL cannot be accessed publicly
- Indicates bucket/object is **private**
- Requires permission via **bucket policy or IAM**

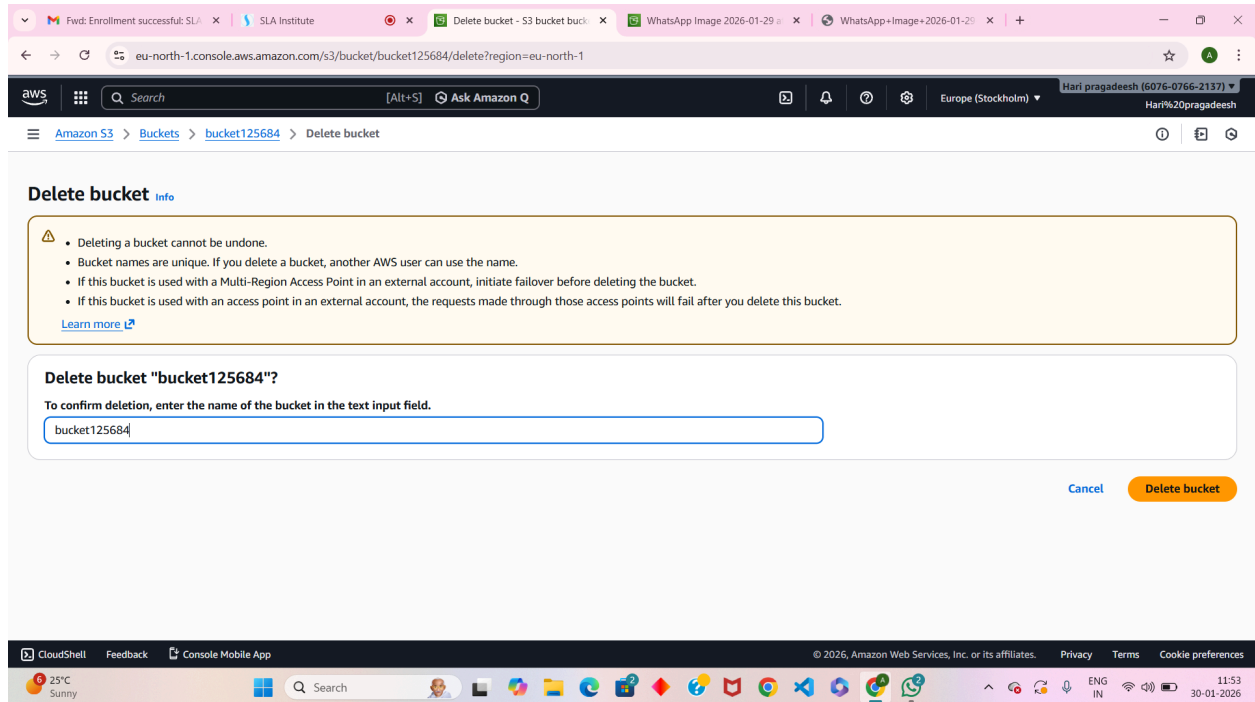


Browser tries to open the object URL

Fails due to **no public read permission**

Confirms **Block Public Access** is enabled

Ensures data security and privacy



Shows **Delete bucket** confirmation screen

Warning: Deletion **cannot be undone**

Bucket name must be typed to confirm deletion

Ensures accidental deletion is avoided

Used to permanently remove bucket and data

- Bucket name entered correctly
- Ready to delete the S3 bucket
- After deletion, bucket name becomes reusable
- All objects must be deleted before bucket deletion