

S3 - Simple Storage Service

Day - 3

S₃ - Simple Storage Service (Storage Service)



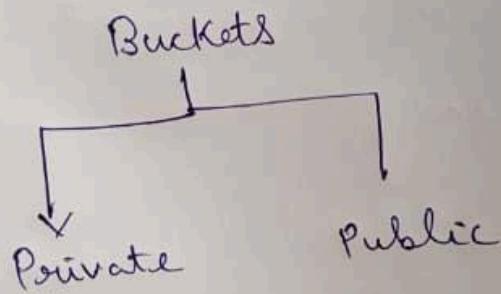
Bucket :-

The bucket name should be globally defined unique.



objects :-

It is an unstructured data.



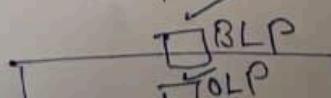
Bucket level permission

Object level permission.

Object ownership

AC - Access control.

S₃ → Bucket → objects (unstructured)
public bucket



The screenshot shows the Amazon S3 console homepage. The left sidebar has a navigation menu with sections like 'Buckets', 'Access management and security', and 'Storage management and insights'. The main content area features a large 'Amazon S3' heading with the subtext 'Store and retrieve any amount of data from anywhere'. It includes a brief description of S3 as an object storage service and a 'Create a bucket' button. Below this, there's a 'How it works' section with a video thumbnail titled 'Introduction to Amazon S3 | Amazon Web Servi...'. To the right, there's a 'Pricing' section stating 'With S3, there are no minimum fees. You only pay for what you use.' It also includes links to the AWS Simple Monthly Calculator and a 'View pricing details' link. The bottom of the page includes standard AWS navigation links like CloudShell, Feedback, and Console Mobile App, along with system status icons.

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

The screenshot shows the AWS S3 'Create bucket' configuration page. In the 'General configuration' section, the 'AWS Region' is set to 'Europe (Stockholm)' and 'eu-north-1'. The 'Bucket type' dropdown is set to 'General purpose', which is described as suitable for most use cases and access patterns. The 'Bucket name' field contains 'bucket125684'. Below it, there's a note about bucket names being 3 to 65 characters and unique within the global namespace. The 'Copy settings from existing bucket - optional' section shows that no bucket settings have been copied. In the 'Object Ownership' section, 'Object Ownership' is selected. The browser status bar at the bottom shows a weather forecast of 25°C and sunny.

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

The screenshot shows the AWS S3 'Create bucket' page. At the top, there are several tabs: 'Fwd: Enrollment successful: SLA', 'SLA Institute', 'Create S3 bucket | S3 | eu-north-1', 'WhatsApp Image 2026-01-29', 'WhatsApp + Image + 2026-01-29', and a '+' button. The main content area has a title 'Block Public Access settings for this bucket'. It explains that public access is granted through ACLs, bucket policies, or access point policies. A checkbox 'Block all public access' is checked, with a note that turning it on is equivalent to enabling all four settings below. Below this are four unchecked options: 'Block public access to buckets and objects granted through new access control lists (ACLs)', 'Block public access to buckets and objects granted through any access control lists (ACLs)', 'Block public access to buckets and objects granted through new public bucket or access point policies', and 'Block public and cross-account access to buckets and objects through any public bucket or access point policies'. Further down, there's a section for 'Bucket Versioning' with a note that it allows keeping multiple variants of an object. A radio button 'Disable' is selected. At the bottom of the page, there are links for 'CloudShell', 'Feedback', 'Console Mobile App', and social sharing icons. The footer includes copyright information, privacy terms, cookie preferences, and system status (25°C, Sunny).

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**

The screenshot shows the 'Create bucket' wizard on the AWS S3 console. The current step is 'Default encryption'. It includes sections for 'Encryption type' (selected: 'Server-side encryption with Amazon S3 managed keys (SSE-S3)'), 'Bucket Key' (selected: 'Enable'), and 'Advanced settings'. A note at the bottom says 'After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.' At the bottom right are 'Cancel' and 'Create bucket' buttons.

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**

The screenshot shows the AWS S3 console interface. At the top, there are several tabs: 'Fwd: Enrollment successful: SLA', 'SLA Institute', 'bucket125684 - S3 bucket | S3', 'WhatsApp Image 2026-01-29 at 2.10.02 PM.jpeg', and 'WhatsApp+Image+2026-01-29'. The main navigation bar includes 'Search' and 'Region: Europe (Stockholm)'. The user is signed in as 'Hari pragadeesh (6076-0766-2137)'.

The current view is 'bucket125684' under the 'Buckets' section. The 'Objects' tab is selected, showing a single object: 'WhatsApp Image 2026-01-29 at 2.10.02 PM.jpeg'. The object details are as follows:

Name	Type	Last modified	Size	Storage class
WhatsApp Image 2026-01-29 at 2.10.02 PM.jpeg	jpeg	January 30, 2026, 11:45:50 (UTC+05:30)	48.6 KB	Standard

Below the table are standard S3 actions: Copy S3 URI, Copy URL, Download, Open, Delete, Actions (with a dropdown), Create folder, and Upload.

The bottom of the screen shows the Windows taskbar with various pinned icons and system status information.

Bucket name: **bucket125684**

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

One object uploaded (JPEG image)

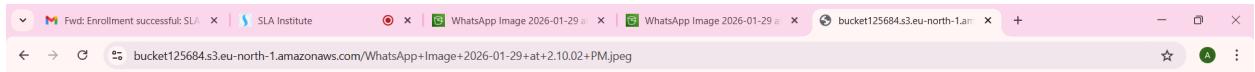
Displays **file type, size, last modified time**

Storage class shown as **Standard**

Options available: Upload, Download, Delete, Copy URL

The screenshot shows the AWS S3 console interface. At the top, there are several tabs: 'Fwd: Enrollment successful: SLA', 'SLA Institute', 'WhatsApp Image 2026-01-29', 'WhatsApp Image 2026-01-29', 'WhatsApp+Image+2026-01-29', and a '+' button. Below the tabs, the URL is eu-north-1.console.aws.amazon.com/s3/object/bucket125684?region=eu-north-1&prefix=WhatsApp+Image+2026-01-29+at+2.10.02+PM.jpeg. The main header bar includes the AWS logo, a search bar with placeholder 'Search [Alt+S]', and navigation icons. The user is signed in as 'Hari pragadeesh (6076-0766-2137)' with the ID 'Hari%20pragadeesh'. The region is set to 'Europe (Stockholm)'. The breadcrumb navigation shows 'Amazon S3 > Buckets > bucket125684 > WhatsApp Image 2026-01-29 at 2.10.02 PM.jpeg'. The page title is 'WhatsApp Image 2026-01-29 at 2.10.02 PM.jpeg' with an 'Info' link. Below the title are four buttons: 'Copy S3 URI', 'Download', 'Open', and 'Object actions'. A tooltip 'Object URL Copied' appears over the 'Copy S3 URI' button, showing the copied URL: <https://Bucket125684.s3.eu-north-1.amazonaws.com/WhatsApp+Image+2026-01-29+at+2.10.02+PM.jpeg>. The 'Properties' tab is selected, showing details like Owner (6aac7a1dc9e26aa123e1ed92cd704e54482cd33a59601599af3bbc93eb3ce666), AWS Region (Europe (Stockholm) eu-north-1), Last modified (January 30, 2026, 11:45:50 (UTC+05:30)), Size (48.6 KB), Type (jpeg), and Key (WhatsApp Image 2026-01-29 at 2.10.02 PM.jpeg). The 'Permissions' and 'Versions' tabs are also visible. At the bottom of the page, there are links for CloudShell, Feedback, and Console Mobile App, along with copyright information (© 2026, Amazon Web Services, Inc. or its affiliates.) and links for Privacy, Terms, and Cookie preferences. The system status bar at the bottom shows the weather (25°C, Sunny), system icons, and the date/time (30-01-2026, 11:47).

- 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)

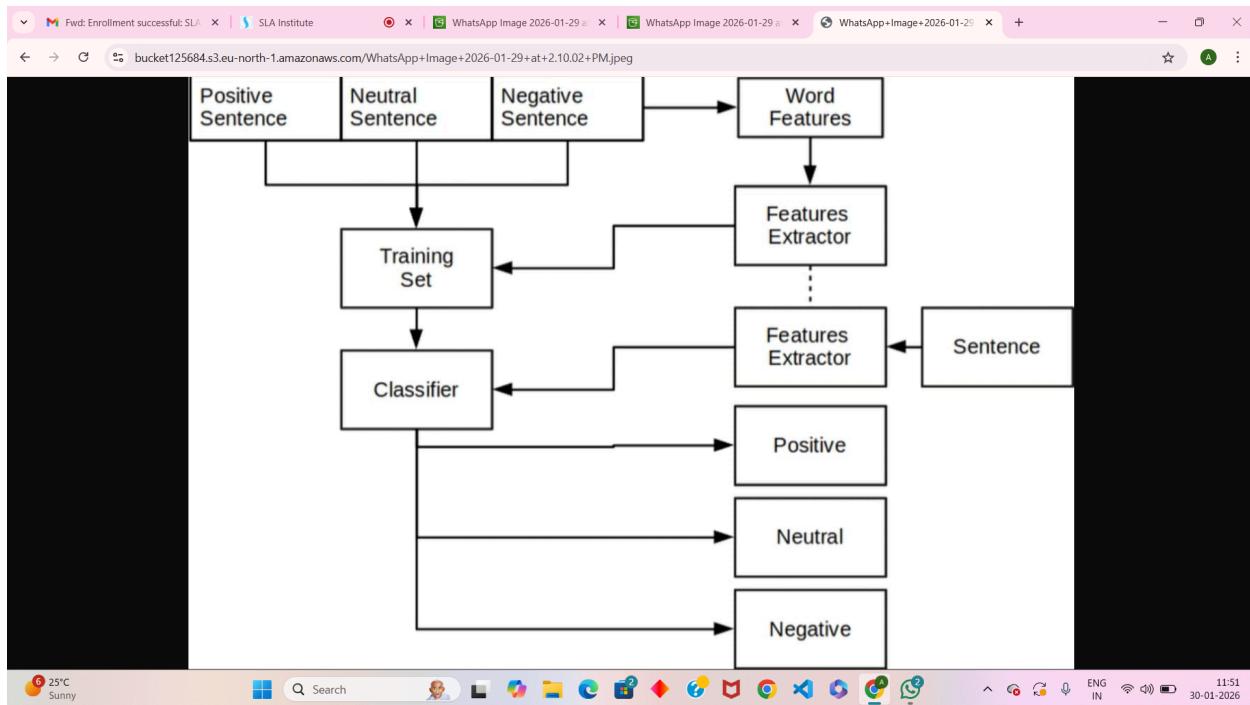


This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<Error><Code>AccessDenied</Code><Message>Access Denied</Message><RequestId>B1AAKM19KYBVQDX1</RequestId><HostId>aFwk11Q1Ub839tA3yaLQ4UM32Chk+mgsR8YvJitlpP46hNrfoUe0U/F7rL3G6t8v9PHwHdDVwboOkjyF+ApvlglkgPMrGs8</HostId></Error>
```



- 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**

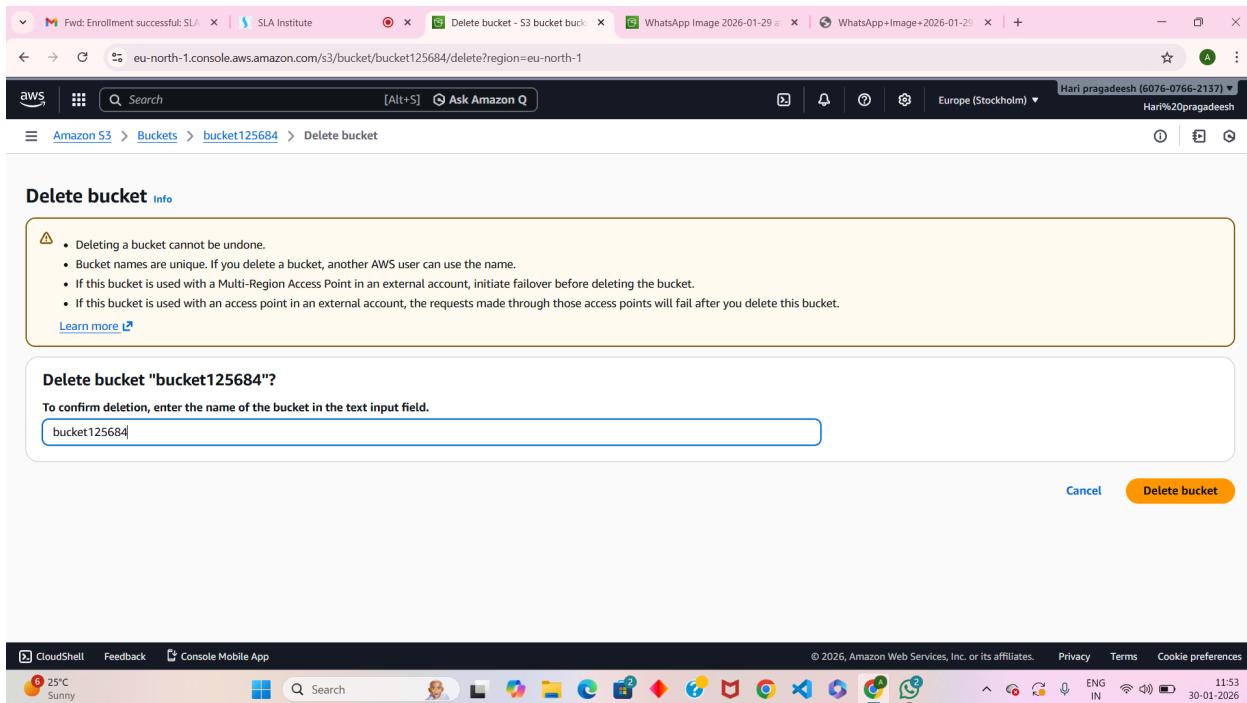


Browser tries to open the object URL

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