

AWS S3 Project – Buckets, Versioning & Static Website Hosting

Overview

This project was completed as part of my learning experience in AWS through Coursera. I explored key features of **Amazon S3 (Simple Storage Service)** by creating and configuring multiple S3 buckets, uploading objects, enabling versioning, and hosting a static website.

Tools & Services Used

- **Amazon Web Services (AWS)**
 - Amazon S3
 - S3 Bucket Policies & Permissions
 - Static Website Hosting
 - **HTML**
 - **Coursera Lab Environment**
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Project Details

Bucket: **mentoproject08**

- Uploaded an image file and a text file to demonstrate basic object storage in S3.

- Verified accessibility and permissions for the uploaded objects.

mentoproject08 Info

Objects (2)

Name	Type	Last modified	Size	Storage class
Images/	Folder	-	-	-
text/	Folder	-	-	-

Account snapshot - updated every 24 hours All AWS Regions

Storage lens provides visibility into storage usage and activity trends. Metrics don't include directory buckets. Learn more

View Storage Lens dashboard

General purpose buckets | Directory buckets

General purpose buckets (3) Info All AWS Regions

Name	AWS Region	IAM Access Analyzer	Creation date
mentoproject08	Europe (Stockholm) eu-north-1	View analyzer for eu-north-1	June 4, 2025, 19:24:48 (UTC+05:30)
mentover02	Europe (Stockholm) eu-north-1	View analyzer for eu-north-1	June 5, 2025, 02:48:05 (UTC+05:30)
mywebsite08	Europe (Stockholm) eu-north-1	View analyzer for eu-north-1	June 5, 2025, 03:11:28 (UTC+05:30)

2 Bucket: mentover02

- Enabled **versioning** on the bucket.
- Uploaded and modified files to create multiple versions.

Observed how S3 maintains version history and how to recover previous versions.

Amazon S3 < mentover02

General purpose buckets

Objects Properties Permissions Metrics Management Access Points

Lifecycle configuration

To manage your objects so that they are stored cost effectively throughout their lifecycle, configure their lifecycle. A lifecycle configuration is a set of rules that define actions that Amazon S3 applies to a group of objects. Lifecycle rules run once per day.

Default minimum object size for transitions
All storage classes 128K

Lifecycle rules (1)

Use lifecycle rules to define actions you want Amazon S3 to take during an object's lifetime such as transitioning objects to another storage class, archiving them, or deleting them after a specified period of time. Learn more

Lifecycle rule name	Status	Scope	Current version actions	Noncurrent versions actions	Expired object delete marker actions	Incomplete multipart upload actions
first lifecycle rule	Enabled	Entire bucket	Transition to Standard-IA, then	Transition to Standard-IA, then -	-	-

[View lifecycle configuration](#)

The screenshot shows the AWS S3 console with the path: Amazon S3 > Buckets > mentover02 > Lifecycle configuration > first lifecycle rule. The main area displays the configuration for the 'first lifecycle rule'. It includes sections for 'Lifecycle rule configuration' (with fields for Lifecycle rule name, Status, Scope, Prefix, Object tags, Minimum object size, and Maximum object size), 'Review transition and expiration actions' (showing current version actions from Day 0 to Day 60 and noncurrent versions actions from Day 0 to Day 60), and a sidebar with various S3-related links like General purpose buckets, Storage Lens, and Feature spotlight.

3 Bucket: mywebsitez08

- Hosted a **static website** by uploading a file: registrationform.html.
- Configured **bucket policy** to allow public read access.
- Verified that the static web page is accessible using the S3 website endpoint URL.

The screenshot shows the AWS S3 console interface. At the top, the navigation bar includes 'Amazon S3', 'Search' (with a placeholder '[Alt+S]'), and account information 'Europe (Stockholm) Seva Naveen Prakash'. Below the navigation is a breadcrumb trail: 'Amazon S3 > Buckets > mywebsite08 > registrationform.html'. The main content area displays the 'registrationform.html' object details under the 'Properties' tab. Key details include:

- Owner:** 1e4fe952dbfe3965c36a5a20133b4c3b5438685aa4d4052eeb892372032f28
- AWS Region:** Europe (Stockholm) eu-north-1
- Last modified:** June 5, 2025, 03:12:25 (UTC+05:30)
- Size:** 6.3 KB
- Type:** html
- Key:** registrationform.html

On the right side, there are links for 'Copy S3 URI', 'Download', 'Open', and 'Object actions'. Below the properties, the 'Object overview' section provides the S3 URI (<https://s3://mywebsite08/registrationform.html>), Amazon Resource Name (ARN) ([arn:aws:s3:::mywebsite08/registrationform.html](#)), Entity tag (ETag) ([318dbce72b4780d2a50f21304129a766](#)), and Object URL (<https://mywebsite08.s3.eu-north-1.amazonaws.com/registrationform.html>).

Below the S3 details is a preview of the 'STUDENT REGISTRATION FORM' page. The form contains fields for First name, Last name, Address, Gender (Female, Male, Other), Email ID, and two buttons: 'Reset all' and 'Submit form'.

✓ Learning Outcomes

- Learned to manage S3 buckets and control object permissions.
- Gained hands-on experience with **versioning**, a powerful feature for data backup and recovery.
- Successfully hosted and accessed a **public static website** using Amazon S3.