

S3 Assignment

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Host Static Website Using S3

Problem Statement

You work for XYZ Corporation. Their application requires a storage service that can store files and publicly share them if required. Implement Amazon S3 to host a static website.

Tasks

1. Use the created S3 bucket to host a static website.
2. Upload an index.html file and an error.html file.
3. Add a Lifecycle Rule for the bucket:
 - Transition objects from Standard to Standard-IA after 60 days.
 - Expire objects after 200 days.

Steps

1. Enable Static Website Hosting

Open the S3 bucket → Properties tab.

Scroll to Static website hosting → Click Edit.

Select Enable.

Enter:

- Index document: index.html
- Error document: error.html

- Save changes.

Amazon S3 > Buckets

✓ Successfully created bucket "vikram-s3-bucket-15th-oct"
To upload files and folders, or to configure additional bucket settings, choose [View details](#).

General purpose buckets All AWS Regions | Directory buckets

General purpose buckets (1) [Info](#)

Buckets are containers for data stored in S3.

Find buckets by name

Name	AWS Region	Creation date
vikram-s3-bucket-15th-oct	US East (N. Virginia) us-east-1	October 15, 2025, 08:58:27 (UTC+05:30)

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

- ☐ Disable
- ☒ Enable

Hosting type

- ☒ Host a static website
Use the bucket endpoint as the web address. [Learn more](#)
- ☐ Redirect requests for an object
Redirect requests to another bucket or domain. [Learn more](#)

For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

Index document

Specify the home or default page of the website.

index.html

Error document - optional

This is returned when an error occurs.

error.html

Redirecting rules - optional

2. Upload Website Files

Go to the Objects tab → Click Upload → Add files.

Upload the index.html and error.html files.

Click Upload.

Summary

Destination

s3://vikram-s3-bucket-15th-oct

Succeeded

2 files, 554.0 B (100.00%)

Failed

0 files, 0 B (0%)

Files and folders

Configuration

Files and folders (2 total, 554.0 B)

Find by name

< 1 >

Name	Folder	Type	Size	Status	Error
index.html	-	text/html	288.0 B	Succeeded	-
error.html	-	text/html	266.0 B	Succeeded	-

Objects (7)

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Show versions

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<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	*This is a sample text file for S3.txt	txt	October 15, 2025, 09:02:39 (UTC+05:30)	50.0 B	Standard
<input type="checkbox"/>	archive.zip.zip	zip	October 15, 2025, 09:02:37 (UTC+05:30)	76.4 KB	Standard
<input type="checkbox"/>	error.html	html	October 15, 2025, 09:32:15 (UTC+05:30)	266.0 B	Standard
<input type="checkbox"/>	index.html	html	October 15, 2025, 09:32:13 (UTC+05:30)	288.0 B	Standard
<input type="checkbox"/>	s3 test report.pdf	pdf	October 15, 2025, 09:00:44 (UTC+05:30)	24.9 KB	Standard
<input type="checkbox"/>	Screenshot 2025-08-20 125559.png	png	October 15, 2025, 09:00:43 (UTC+05:30)	230.3 KB	Standard
<input type="checkbox"/>	small-wind-272153.mp3	mp3	October 15, 2025, 09:01:01 (UTC+05:30)	567.3 KB	Standard

3. Make Files Public

Go to the Permissions tab → under Object Ownership, choose ACLs enabled.

Select the uploaded files → Actions → Make public using ACL.

4. Test the Website

Make sure “Block all public access” is turned off.

Go to Properties → Static website hosting → Copy the Website endpoint URL.

Open it in a browser:

- The index.html page should load.
- Visit a random or wrong URL → The error.html page should load.

Welcome to XYZ Corporation

This is the main page of our static website hosted on Amazon S3.

404 - Page Not Found

Sorry! The page you are looking for doesn't exist.

5. Add Lifecycle Rule

Open the Management tab → Create lifecycle rule.

Rule name: TransitionAndExpirationrule.

Apply to Entire bucket.

Add transitions:

- Current versions → Transition to Standard-IA after 60 days.

Add expiration:

- Expire current versions after 200 days.

Save rule.

Create lifecycle rule [Info](#)

Lifecycle rule configuration

Lifecycle rule name

TransitionAndExpirationRule

Up to 255 characters

Choose a rule scope

- ☐ Limit the scope of this rule using one or more filters
- ☒ Apply to all objects in the bucket

Apply to all objects in the bucket

If you want the rule to apply to specific objects, you must use a filter to identify those objects. Choose "Limit the scope of this rule using one or more filters". [Learn more](#)

☒ I acknowledge that this rule will apply to all objects in the bucket.

Lifecycle rule actions

Choose the actions you want this rule to perform.

- ☒ Transition current versions of objects between storage classes

This action will move current versions.

Lifecycle rule actions

Choose the actions you want this rule to perform.

- ☒ Transition current versions of objects between storage classes
This action will move current versions.
- ☐ Transition noncurrent versions of objects between storage classes
This action will move noncurrent versions.
- ☒ Expire current versions of objects
- ☐ Permanently delete noncurrent versions of objects
- ☐ Delete expired object delete markers or incomplete multipart uploads
These actions are not supported when filtering by object tags or object size.

Transitions are charged per request

For a lifecycle transition action, each request corresponds to an object transition. For details on lifecycle transition pricing, see requests pricing info on the **Storage & requests** tab of the [Amazon S3 pricing page](#).

☒ I acknowledge that this lifecycle rule will incur a transition cost per request.

By default, objects less than 128KB will not transition across any storage class

We don't recommend transitioning objects less than 128 KB because the transition costs can outweigh the storage savings. If your use case requires transitioning objects less than 128 KB, specify a minimum object size filter for each applicable lifecycle rule with a transition action.

Transition current versions of objects between storage classes

Choose transitions to move current versions of objects between storage classes based on your use case scenario and performance access requirements. These transitions start from when the objects are created and are consecutively applied. [Learn more](#)

Choose storage class transitions

Standard-IA

Days after object creation

60

Remove

Add transition

Expire current versions of objects

For version-enabled buckets, Amazon S3 adds a delete marker and the current version of an object is retained as a noncurrent version. For non-versioned buckets, Amazon S3 permanently removes the object. [Learn more](#)

Days after object creation

200

Review transition and expiration actions

Current version actions

Noncurrent versions actions

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)



View details

Edit

Delete

Actions

Create lifecycle rule

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](#)

Find lifecycle rules by name

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Lifecycle rule name	Status	Scope	Current version acti...	Noncurrent versions...	Expired object delet...	Incomplete multipa...
TransitionAndExpirationR ule	Enabled	Entire bucket	Transition to Standard-IA, thi	-	-	-

■ **Result:** Your S3 bucket is now configured to host a static website with public access and automatic lifecycle management for cost optimization.