

Module 6: S3 Bucket Creation Assignment

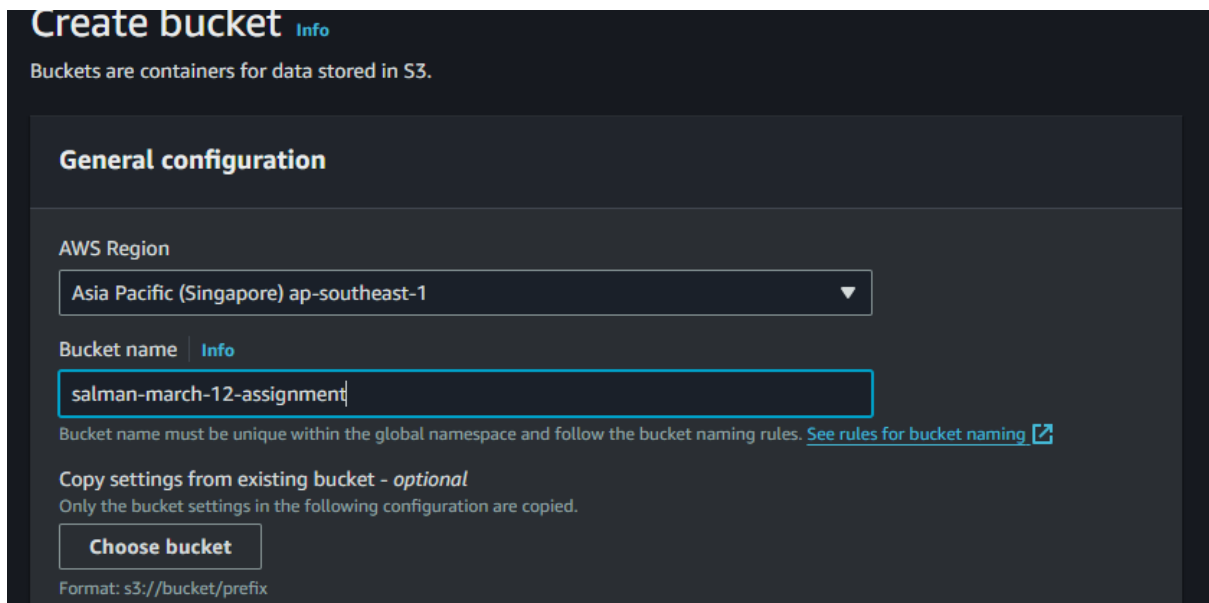
Problem Statement:

You work for XYZ Corporation. Their application requires a storage service that can store files and publicly share them if required. Implement S3 for the same.

Tasks To Be Performed:

1. Create an S3 Bucket for file storage.
2. Upload 5 objects with different file extensions.

1. Creating S3 Bucket



The screenshot shows the 'Create bucket' page in the AWS Management Console. At the top, it says 'Create bucket' with an 'Info' link. Below this, a note states 'Buckets are containers for data stored in S3.' The main section is titled 'General configuration'. It contains a dropdown for 'AWS Region' set to 'Asia Pacific (Singapore) ap-southeast-1'. Below that is a text input for 'Bucket name' with the value 'salman-march-12-assignment' and an 'Info' link. A note below the input says 'Bucket name must be unique within the global namespace and follow the bucket naming rules. See rules for bucket naming'. There is a section for 'Copy settings from existing bucket - optional' with a note 'Only the bucket settings in the following configuration are copied.' and a 'Choose bucket' button. At the bottom, it shows the 'Format: s3://bucket/prefix'.

Create bucket [Info](#)

Buckets are containers for data stored in S3.

General configuration

AWS Region

Asia Pacific (Singapore) ap-southeast-1

Bucket name [Info](#)

salman-march-12-assignment

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

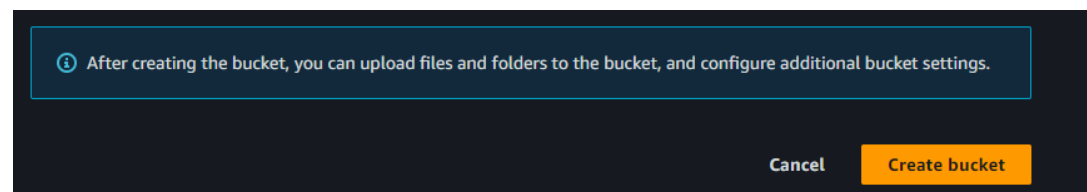
Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

[Choose bucket](#)

Format: s3://bucket/prefix

2. Click Create



The screenshot shows the bottom of the 'Create bucket' page. It features a tip box with an information icon and text: 'After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.' At the bottom right, there are two buttons: 'Cancel' and 'Create bucket'.

[i](#) After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel Create bucket

3. Created Successfully

[Amazon S3](#) > Buckets

▶ Account snapshot

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

View Storage Lens dashboard

General purpose buckets

Directory buckets

General purpose buckets (1) Info

Buckets are containers for data stored in S3.

Find buckets by name

< 1 > ⚙

	Name ▲	AWS Region ▼	Access ▼	Creation date ▼
<input type="radio"/>	salman-march-12-assignment	Asia Pacific (Singapore) ap-southeast-1	Bucket and objects not public	March 12, 2024, 12:04:57 (UTC+05:30)

Destination Info

Destination

s3://salman-march-12-assignment

▶ Destination details

Bucket settings that impact new objects stored in the specified destination.

▶ Permissions

Grant public access and access to other AWS accounts.

▶ Properties

Specify storage class, encryption settings, tags, and more.

Cancel Upload

3. Click Add Files

[Amazon S3](#) > [Buckets](#) > [salman-march-12-assignment](#) > Upload

Upload Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose Add files or Add folder.

Files and folders (0)

All files and folders in this table will be uploaded.

Remove Add files Add folder

Find by name

< 1 >

▼	Folder	▼	Type	▼	Size	▼
No files or folders						
You have not chosen any files or folders to upload.						

4. UploadedSuccessfully

Files and folders (5 Total, 6.2 MB)

Find by name

Name	Folder	Type	Size	Status	Error
253.aac	-	audio/vnd.dlna.adts	625.7 KB	Succeeded	-
Salman.pem	-	-	1.6 KB	Succeeded	-
Vpc and Peering Conn...	-	application/vnd.openx...	5.5 MB	Succeeded	-
12 Mar S3 CLI.txt	-	text/plain	87.0 B	Succeeded	-
12 Mar S3 CLI.pdf	-	application/pdf	32.1 KB	Succeeded	-

5. Now We Can See 5 Different File Extensions and the Assignment Task 1 Finished

Objects (5) Info

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](#)

Find objects by prefix

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	12 Mar S3 CLI.pdf	pdf	March 12, 2024, 12:10:47 (UTC+05:30)	32.1 KB	Standard
<input type="checkbox"/>	12 Mar S3 CLI.txt	txt	March 12, 2024, 12:10:47 (UTC+05:30)	87.0 B	Standard
<input type="checkbox"/>	253.aac	aac	March 12, 2024, 12:10:44 (UTC+05:30)	625.7 KB	Standard
<input type="checkbox"/>	Salman.pem	pem	March 12, 2024, 12:10:44 (UTC+05:30)	1.6 KB	Standard
<input type="checkbox"/>	Vpc and Peering Connection Assignment.docx	docx	March 12, 2024, 12:10:46 (UTC+05:30)	5.5 MB	Standard

Module 6: S3 Bucket Versioning Assignment

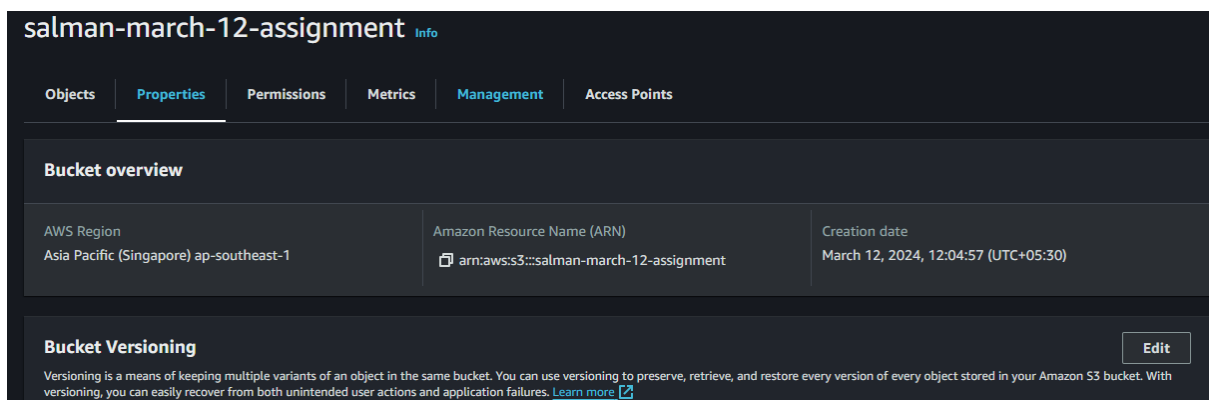
Problem Statement:

You work for XYZ Corporation. Their application requires a storage service that can store files and publicly share them if required. Implement S3 for the same.

Tasks To Be Performed:

1. Enable versioning for the bucket created in task 1.
2. Re-upload any 2 files already uploaded to verify if versioning works.


1. Now Need to Enable **Versioning For Bucket (Task-2 Continue)** and Go to **Properties** we find Bucket **Versioning** and Click **Edit**




salman-march-12-assignment Info

Objects **Properties** Permissions Metrics Management Access Points

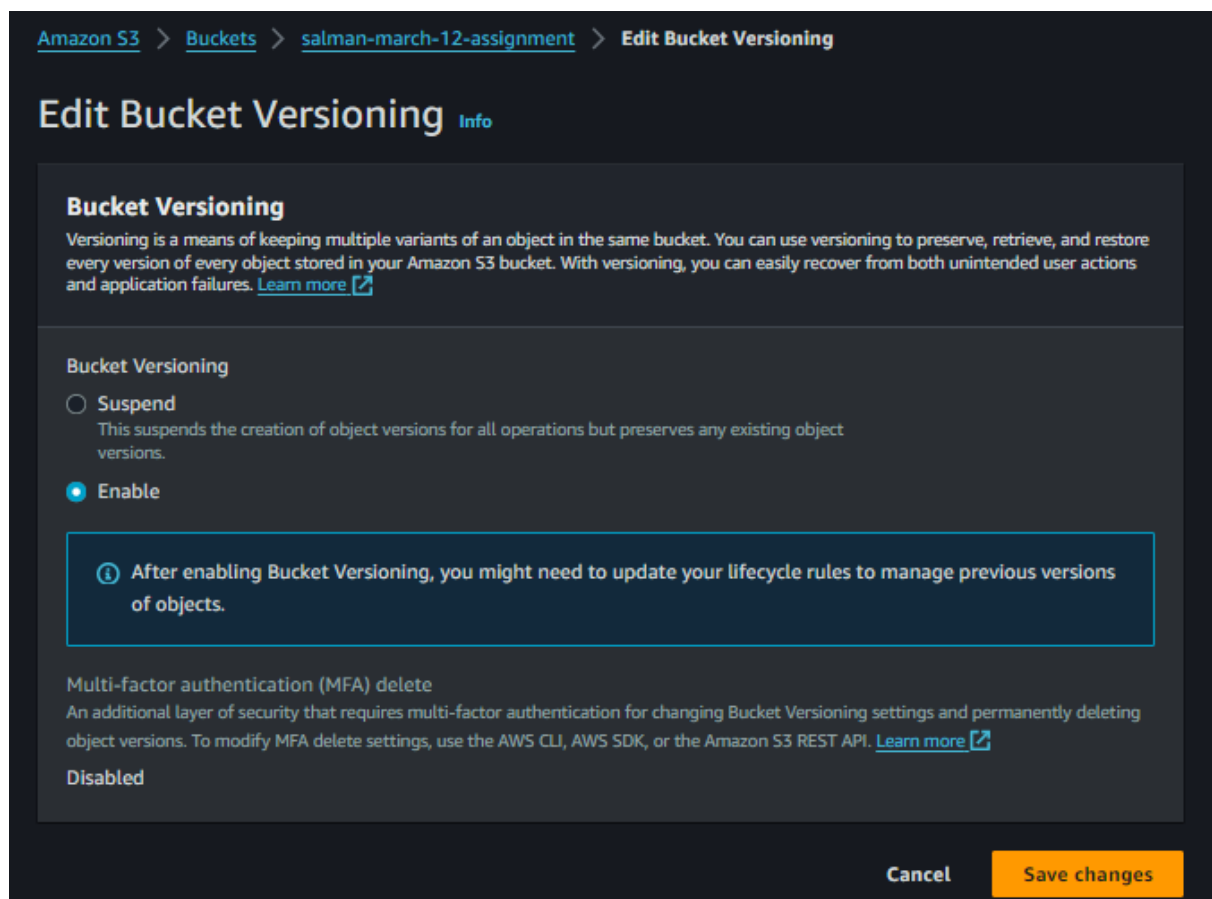
Bucket overview

AWS Region Asia Pacific (Singapore) ap-southeast-1	Amazon Resource Name (ARN)  arn:aws:s3:::salman-march-12-assignment	Creation date March 12, 2024, 12:04:57 (UTC+05:30)
---	--	---

Bucket Versioning Edit

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#) 

2. Select **Suspend** to **Enable** and Click **Save Changes**



- After Enable it will Visible Versioning Option and Button and Also we can Upload Same File its not overwritten Because of Enabled Version so Its New Version for newly added File and old one was null because on that time we are not enable it versioning. So Versioning works Now Assignment Task-2 Completed

Objects (6) Info

Refresh 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](#)

Find objects by prefix Show versions < 1 > ⚙

<input type="checkbox"/>	Name	Type	Version ID	Last modified	Size	Storage class
<input type="checkbox"/>	12 Mar S3 CLI.pdf	pdf	null	March 12, 2024, 12:10:47 (UTC+05:30)	32.1 KB	Standard
<input type="checkbox"/>	12 Mar S3 CLI.txt	txt	kNWfNRL_4 _JI53MeTZk rGeiBoJPNY pO	March 12, 2024, 12:22:38 (UTC+05:30)	87.0 B	Standard
<input type="checkbox"/>	12 Mar S3 CLI.txt	txt	null	March 12, 2024, 12:10:47 (UTC+05:30)	87.0 B	Standard
<input type="checkbox"/>	253.aac	aac	null	March 12, 2024, 12:10:44 (UTC+05:30)	625.7 KB	Standard
<input type="checkbox"/>				March 12, 2024, 12:10:44		

Module 6: S3 Website Hosting Assignment

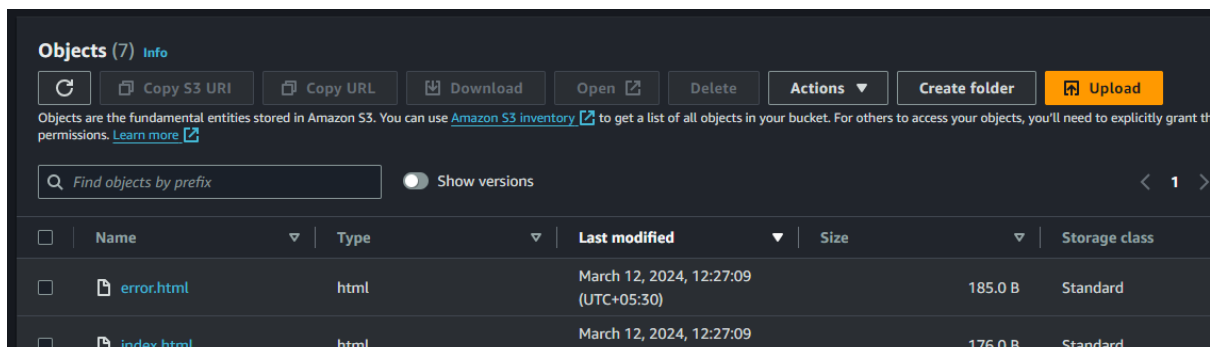
Problem Statement:

You work for XYZ Corporation. Their application requires a storage service that can store files and publicly share them if required. Implement S3 for the same.

Tasks To Be Performed:

1. Use the created bucket in the previous task to host static websites, upload an index.html file and error.html page.
2. Add a lifecycle rule for the bucket:
 - a. Transition from Standard to Standard-IA in 60 days
 - b. Expiration in 200 days

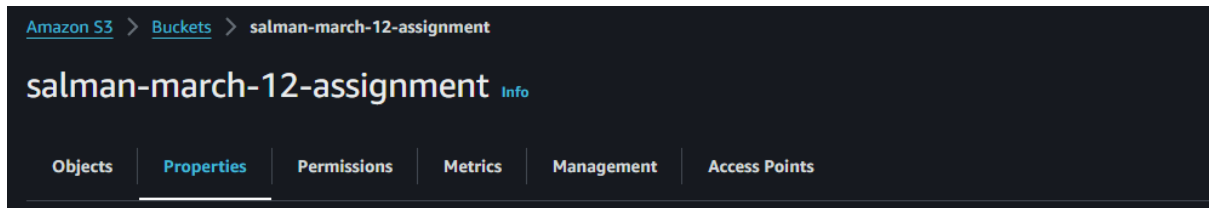
1. Uploaded **html file which name as index.html and error.html**



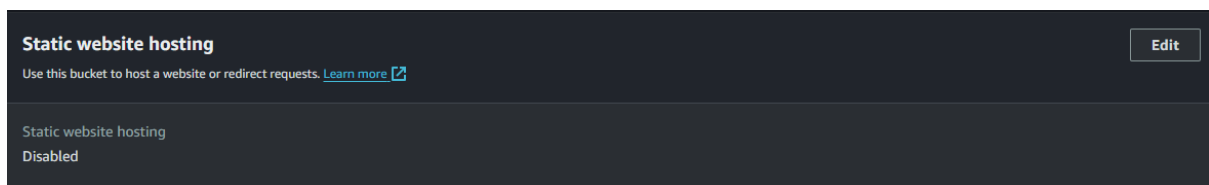
The screenshot shows the Amazon S3 console interface for a bucket. At the top, there's a header 'Objects (7) Info' with several action buttons: 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', 'Actions', 'Create folder', and 'Upload'. Below the header, a search bar is labeled 'Find objects by prefix' and there's a 'Show versions' toggle. The main content is a table listing the objects in the bucket.

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	error.html	html	March 12, 2024, 12:27:09 (UTC+05:30)	185.0 B	Standard
<input type="checkbox"/>	index.html	html	March 12, 2024, 12:27:09 (UTC+05:30)	176.0 B	Standard

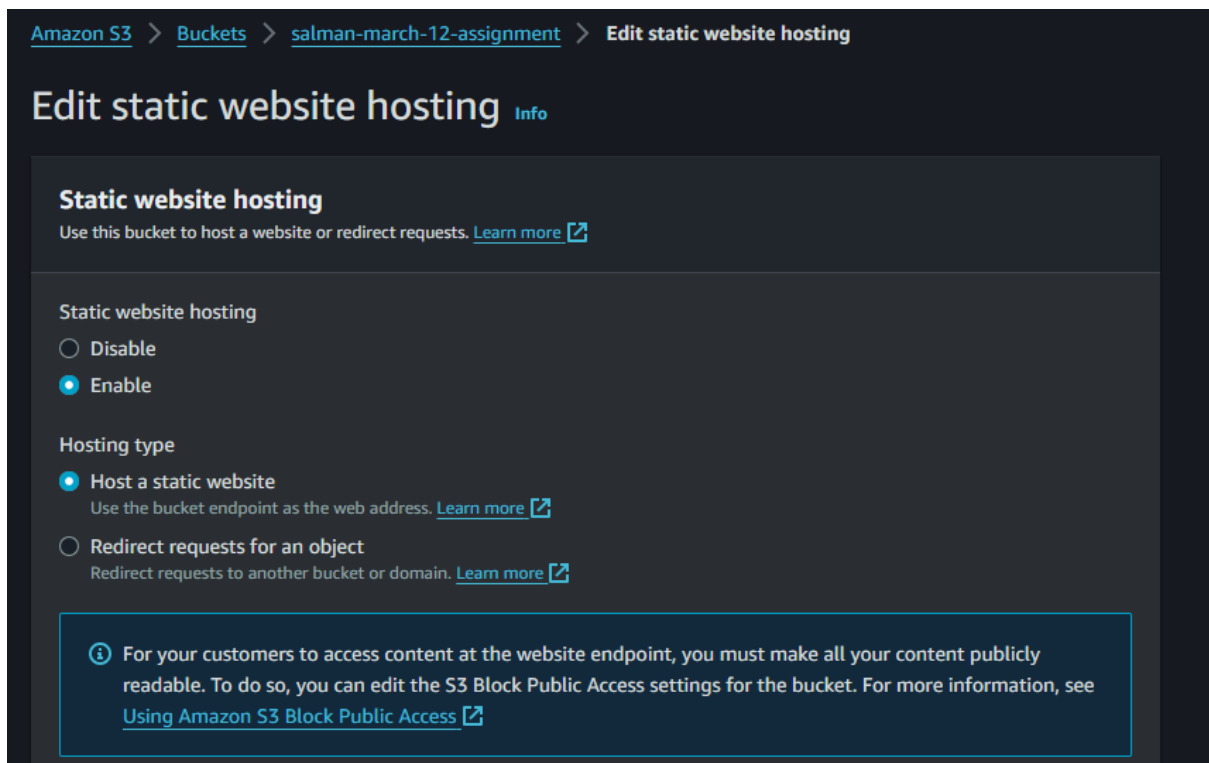
2. Now Go to **Properties**



3. Scroll down in the last we find **static website hosting** and click on edit



4. Its **Disable** so enable it.



5. Upload **static file** which as **index.html** and upload error file if url is wrong then triggered that **error file** which I have uploaded

Index document
Specify the home or default page of the website.

Error document - optional
This is returned when an error occurs.

Redirection rules – optional
Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

6. Click **Save Changes**

Cancel **Save changes**

7. Now **Copy the URL**

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

Static website hosting
Enabled
Hosting type
Bucket hosting
Bucket website endpoint
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)

<http://salman-march-12-assignment.s3-website-ap-southeast-1.amazonaws.com>

8. Its **showing error** Because we are not given **public Access**

← → ↻ ⚠ Not secure salman-march-12-assignment.s3-website-ap-southeast-1.amazonaws.com

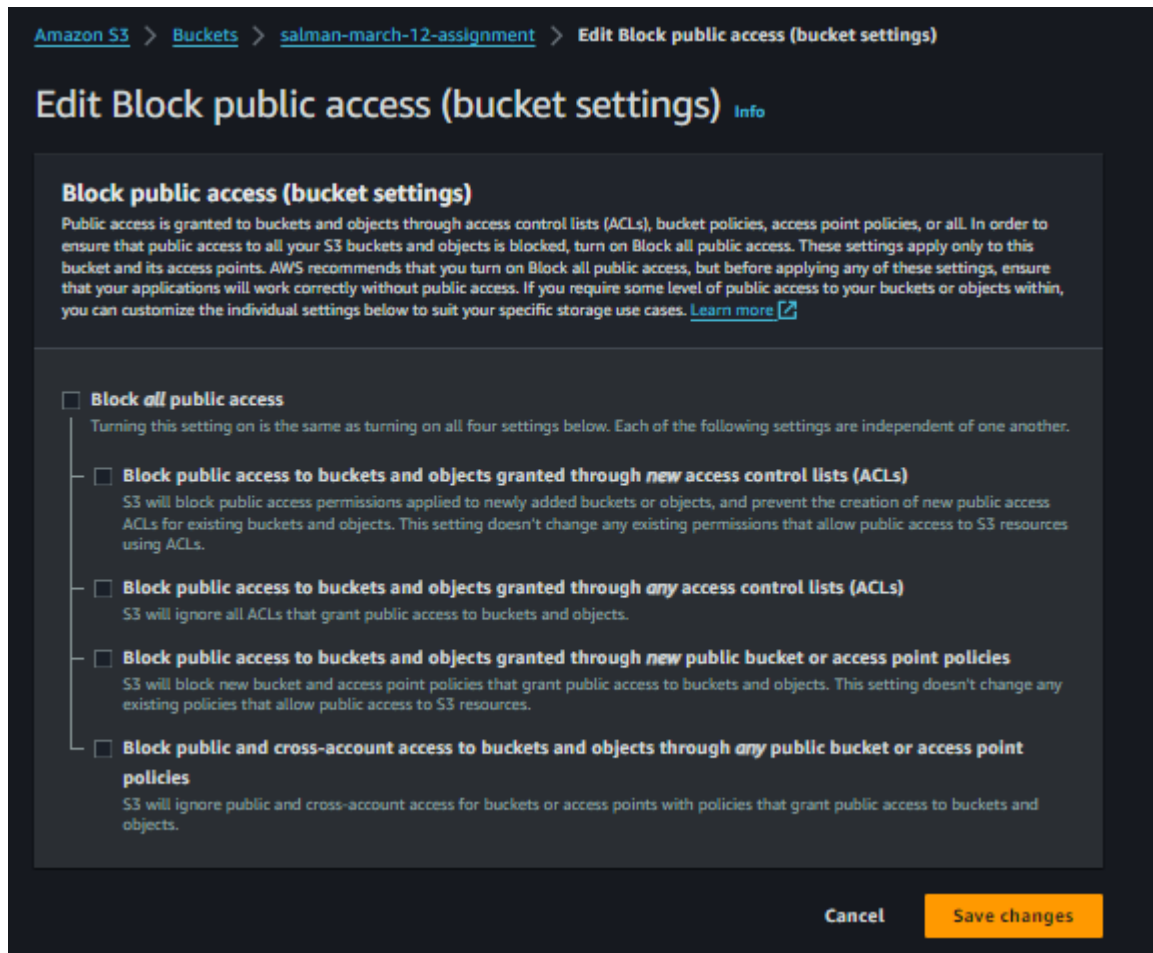
403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: GSKVSNHXCRP4YEX2
- HostId: dgrAPA81J7eCNgsR3ETFvvD56M4RJRvxlzE/OpQQX1WZmpZducBV7G/zldHSA7Sr1xCVrc6y4IE=

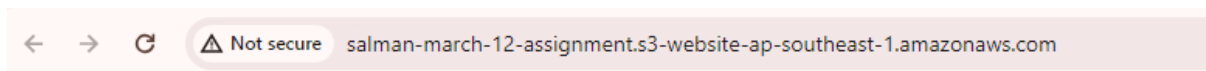
An Error Occurred While Attempting to Retrieve a Custom Error Document

- Code: AccessDenied
- Message: Access Denied

9. We Removed the Block all Public Access and click save changes.



10. Showing Again Same Error Because We have gave access to Bucket not the Objects Ownerships



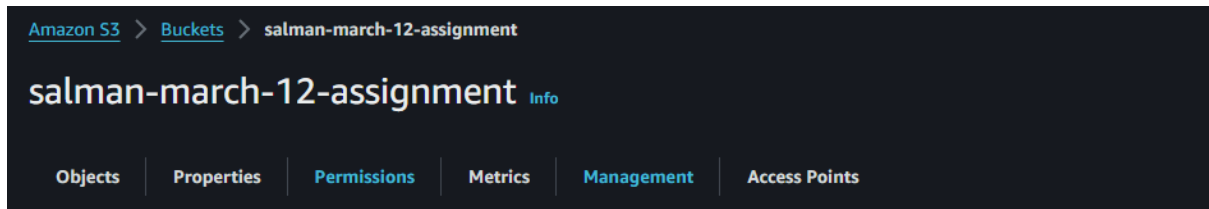
403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: GSKVSNHXCRP4YEX2
- HostId: dgrAPA81J7eCNgsR3ETFvvD56M4RJRvxlzE/OpQQX1WZmpZducBV7G/zldHSA7Sr1xCVrc6y4IE=

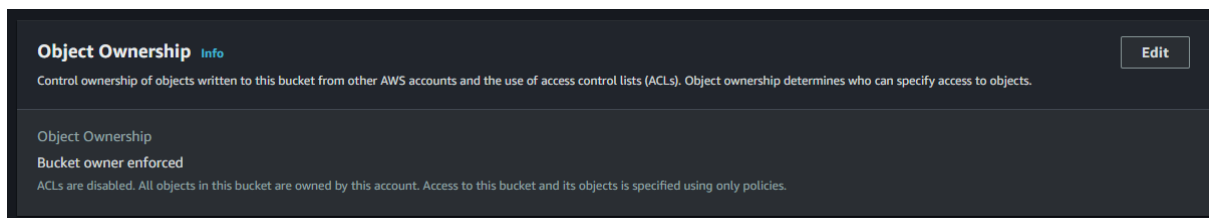
An Error Occurred While Attempting to Retrieve a Custom Error Document

- Code: AccessDenied
- Message: Access Denied

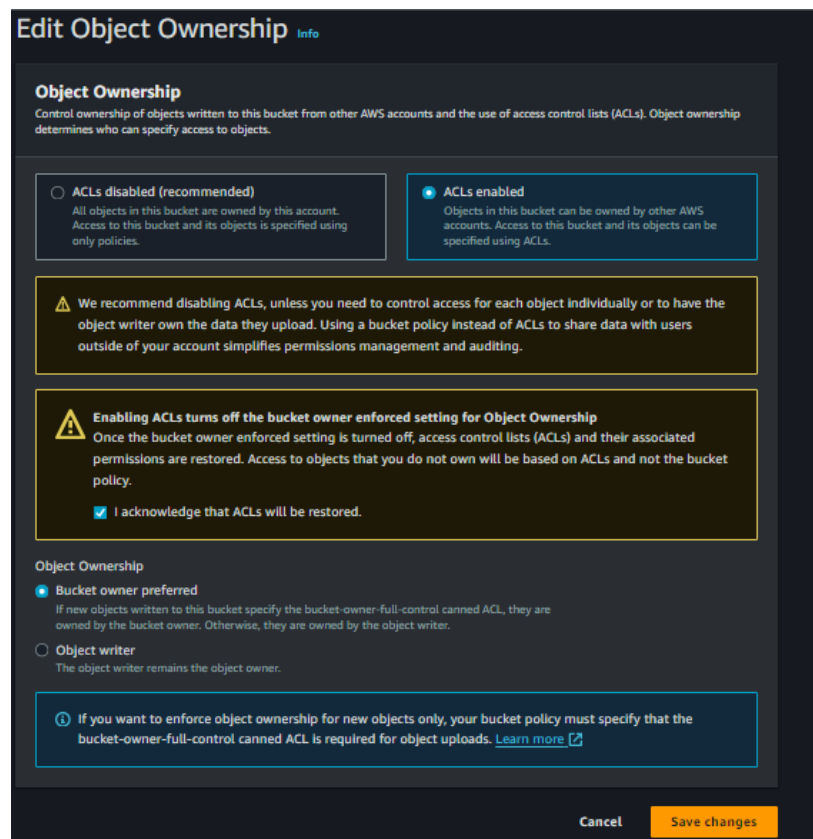
11. Again go to **Permissions**



12. Scroll down and u will find **Object Ownership** and **Click Edit**



13. **Enable ACLs(Access Control Lists) and Save Changes**



14. Now Select index and error html file and go to Actions and u will find Make Public Using ACL

The screenshot shows the Amazon S3 console interface. At the top, there's a header 'Objects (5) Info'. Below it, there are buttons for 'Copy S3 URI', 'Copy URL', 'Download', 'Open', and 'Delete'. A search bar with the placeholder 'Find objects by prefix' and a 'Show versions' toggle are also present. The main table lists objects with columns for 'Name', 'Type', and 'Last modified'. Two objects, 'error.html' and 'index.html', are selected with checkboxes. To the right, the 'Actions' dropdown menu is open, showing options like 'Download as', 'Share with a presigned URL', 'Calculate total size', 'Copy', 'Move', 'Initiate restore', 'Query with S3 Select', 'Edit actions', 'Rename object', 'Edit storage class', 'Edit server-side encryption', 'Edit metadata', 'Edit tags', and 'Make public using ACL'. The 'Make public using ACL' option is highlighted at the bottom of the dropdown.

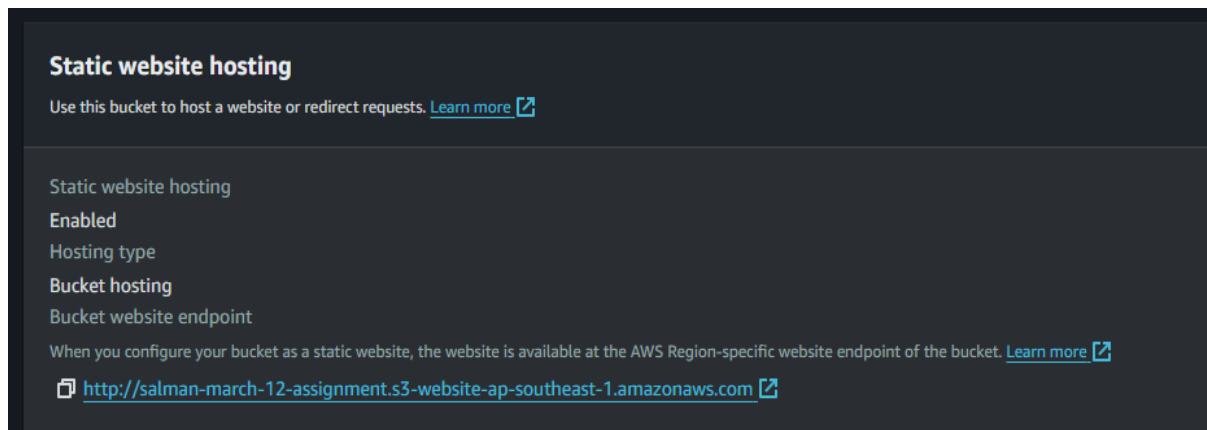
	Name	Type	Last modified
<input checked="" type="checkbox"/>	error.html	html	March 12, 2024, 12:27:09 (UTC+05:30)
<input checked="" type="checkbox"/>	index.html	html	March 12, 2024, 12:27:09 (UTC+05:30)
<input type="checkbox"/>	12 Mar S3 CLI.txt	txt	March 12, 2024, 12:22:38 (UTC+05:30)
<input type="checkbox"/>	12 Mar S3 CLI.pdf	pdf	March 12, 2024, 12:10:47 (UTC+05:30)
<input type="checkbox"/>	Vpc and Peering Connection Assignment.docx	docx	March 12, 2024, 12:10:46 (UTC+05:30)

15. And Click Make Public

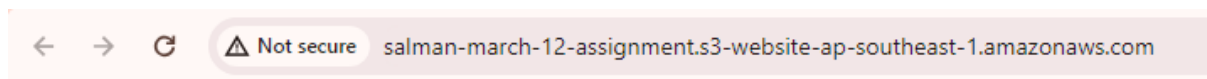
The screenshot shows the 'Make public' dialog in the Amazon S3 console. The breadcrumb navigation at the top reads 'Amazon S3 > Buckets > salman-march-12-assignment > Make public'. The main heading is 'Make public Info'. Below it, a message states: 'The make public action enables public read access in the object access control list (ACL) settings. Learn more'. A warning box with a yellow triangle icon says: 'When public read access is enabled and not blocked by Block Public Access settings, anyone in the world can access the specified objects.' Below the warning, there's a section titled 'Specified objects' with a search bar 'Find objects by name'. A table lists the selected objects: 'error.html' and 'index.html', both of type 'html', with their last modified dates and sizes (185.0 B and 176.0 B respectively). At the bottom right, there are 'Cancel' and 'Make public' buttons.

Name	Type	Last modified	Size
error.html	html	March 12, 2024, 12:27:09 (UTC+05:30)	185.0 B
index.html	html	March 12, 2024, 12:27:09 (UTC+05:30)	176.0 B

16. Now Again go to **Static Website Hosting Click Url** and Now u able to see your website

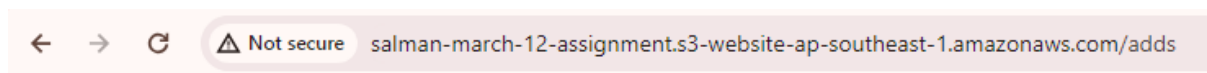


17. Our **Static Website Open Successfully**



This website is hosted on a s3 bucket

18. After adding another thing in **URL and search then its triggered Error.html Page** Because we have Uploaded that too if any one change url then show that error page



ERROR!!!!!! Please verify if the URL is correct

19. Now Second Step **Go Management** and **Create Lifecycle Rule**

Amazon S3 > Buckets > salman-march-12-assignment

salman-march-12-assignment

Objects | Properties | Permissions | Metrics | **Management** | Access Points

Lifecycle rules

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](#)

[Refresh](#) [View details](#) [Edit](#) [Delete](#) [Actions](#) [Create lifecycle rule](#)

Lifecycle rule na...	Status	Scope	Current version ...	Noncurrent vers...	Expired object d...	Incomplete mul...
No lifecycle rules						
There are no lifecycle rules for this bucket.						
Create lifecycle rule						

20. I Currently Selectly All Objects in the Bucket and Click Acknowledge

Amazon S3 > Buckets > salman-march-12-assignment > Lifecycle configuration > Create lifecycle rule

Create lifecycle rule [Info](#)

Lifecycle rule configuration

Lifecycle rule name

Salman-Lifecycle-Rule

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.

21. As Per Assignment We need to Select **Move CV to Objects b/w SC** and **EC Versions of Objects**
And Select Standard-1A and 60 days

Lifecycle rule actions

Choose the actions you want this rule to perform. Per-request fees apply. [Learn more](#) or see [Amazon S3 pricing](#)

- ☒ Move current versions of objects between storage classes
- ☐ Move noncurrent versions of objects between storage classes
- ☒ 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.

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

Days after object creation

Standard-IA ▼

60

Remove

Add transition

22. And Expiration in 200 Days and Tree Also able To See.

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

Review transition and expiration actions

Current version actions	Noncurrent versions actions
<p>Day 0</p> <ul style="list-style-type: none">• Objects uploaded <p>↓</p>	<p>Day 0</p> <p>No actions defined.</p>
<p>Day 60</p> <ul style="list-style-type: none">• Objects move to Standard-IA <p>↓</p>	
<p>Day 200</p> <ul style="list-style-type: none">• Objects expire	

Cancel

Create rule

Thank You