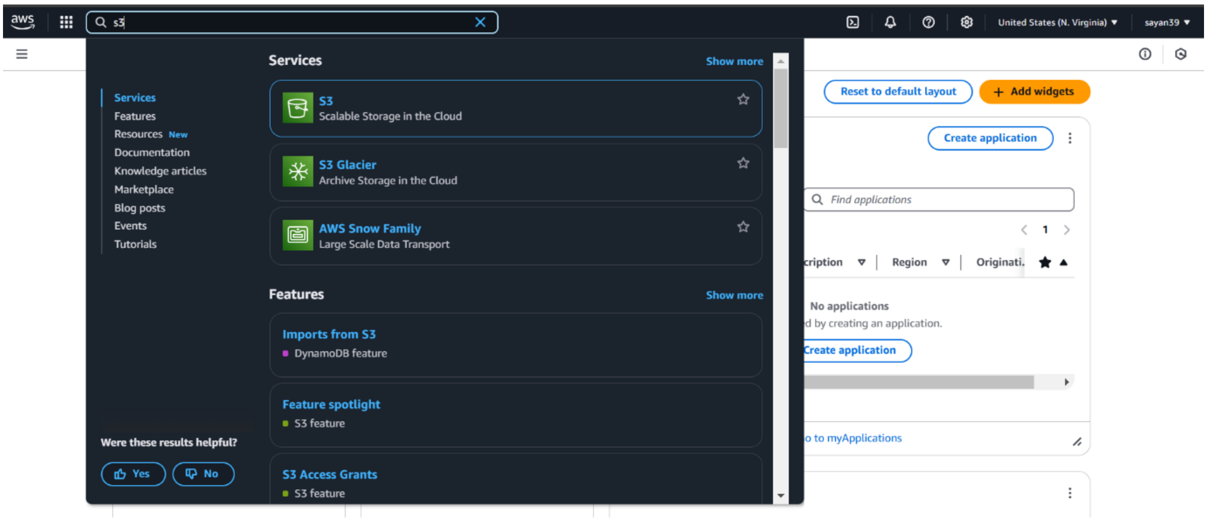
Assignment No:06

Title: Upload a static website on S3.

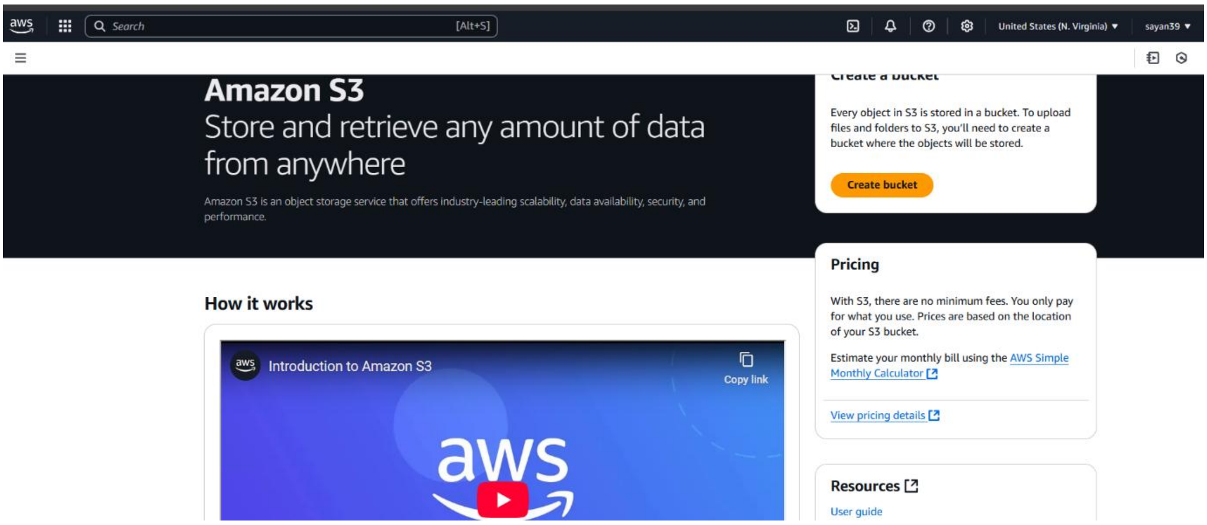
Step-1:

Search S3 in the AWS management console.



Step-2:

Click on the S3 and click on create bucket.



Store and retrieve any amount of data from anywhere

Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.

Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.

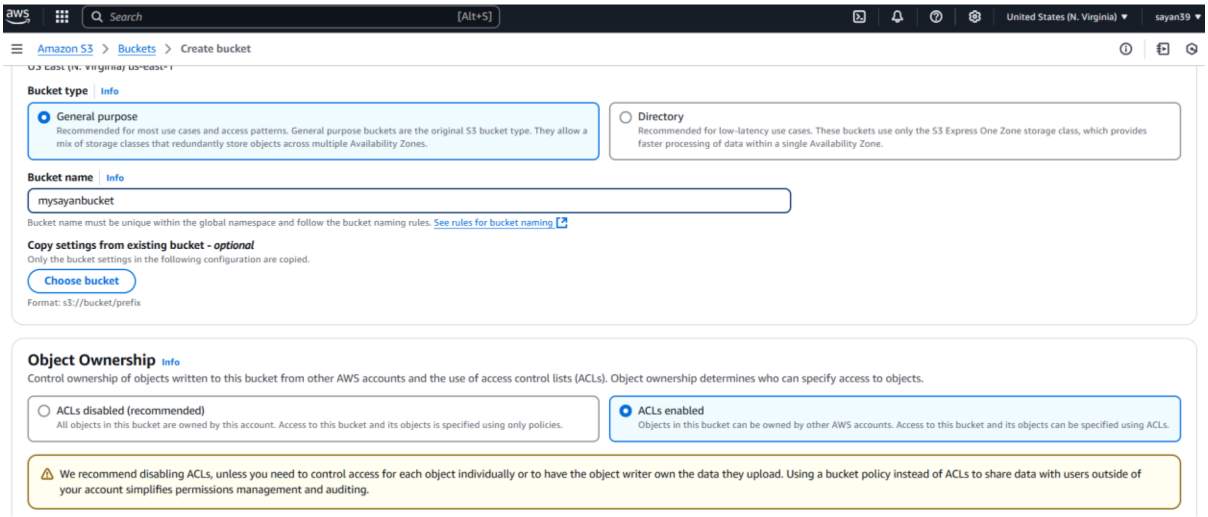
With S3, there are no minimum fees. You only pay for what you use. Prices are based on the location of your S3 bucket.

Estimate your monthly bill using the AWS Simple Monthly Calculator

Step-3:

Name the bucket the select all the necessary settings uncheck “block all public access” and enable bucket versioning.

Name:Sayan Barik
Class Roll:CSE(DS)/22/039


Search [Alt+S]
United States (N. Virginia) ▾
sayan39 ▾
Amazon S3 > Buckets > Create bucket

US East (N. Virginia) us-east-1

Bucket type Info

● General purpose
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

○ Directory
Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

Bucket name Info

mysayanbucket

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

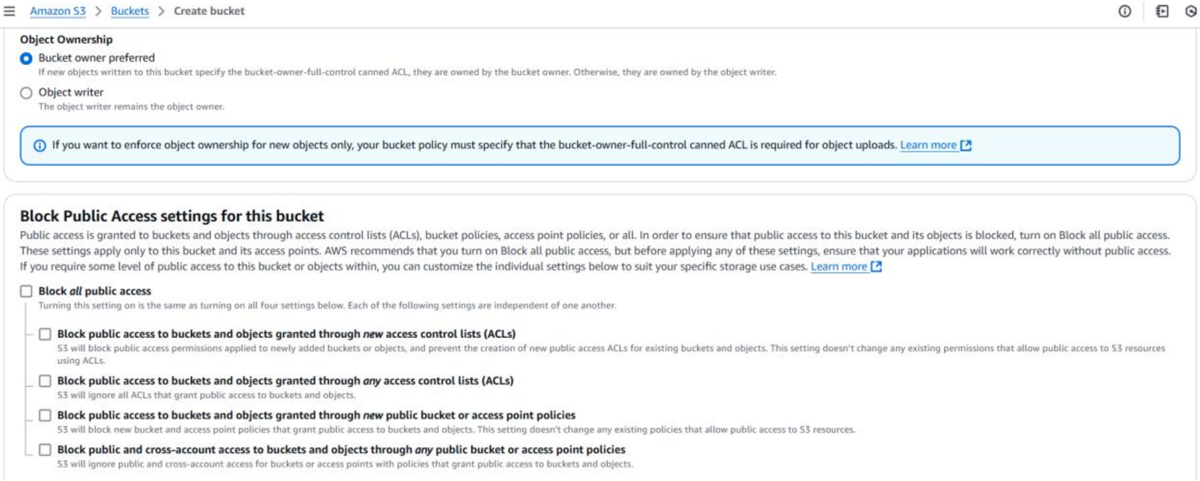
Object Ownership Info

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

○ ACLs disabled (recommended)
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

● ACLs enabled
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

⚠ We recommend disabling ACLs, unless you need to control access for each object individually or to have the object writer own the data they upload. Using a bucket policy instead of ACLs to share data with users outside of your account simplifies permissions management and auditing.



Object Ownership

● Bucket owner preferred
If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.

○ Object writer
The object writer remains the object owner.

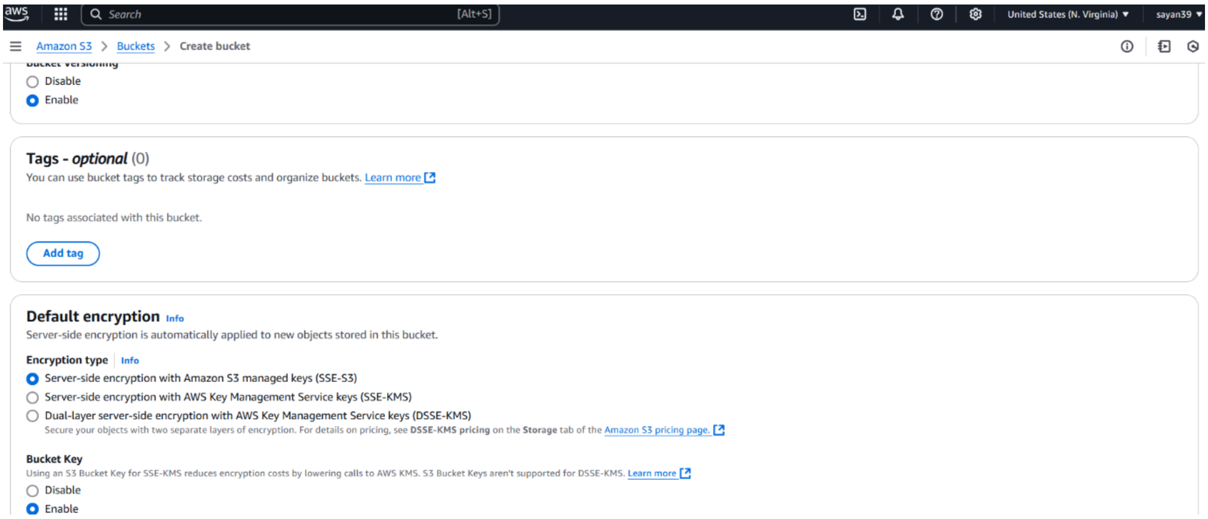
ⓘ If you want to enforce object ownership for new objects only, your bucket policy must specify that the bucket-owner-full-control canned ACL is required for object uploads. Learn more

Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. Learn more

□ Block *all* public access
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

- □ Block public access to buckets and objects granted through *new* access control lists (ACLs)
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- □ Block public access to buckets and objects granted through *any* access control lists (ACLs)
S3 will ignore all ACLs that grant public access to buckets and objects.
- □ Block public access to buckets and objects granted through *new* public bucket or access point policies
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- □ Block public and cross-account access to buckets and objects through *any* public bucket or access point policies
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.


Search [Alt+S]
United States (N. Virginia) ▾
sayan39 ▾
Amazon S3 > Buckets > Create bucket

Bucket Versioning

○ Disable
● Enable

Tags - *optional* (0)

You can use bucket tags to track storage costs and organize buckets. Learn more

No tags associated with this bucket.

Add tag

Default encryption Info

Server-side encryption is automatically applied to new objects stored in this bucket.

Encryption type Info

● Server-side encryption with Amazon S3 managed keys (SSE-S3)
○ Server-side encryption with AWS Key Management Service keys (SSE-KMS)
○ Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)
Secure your objects with two separate layers of encryption. For details on pricing, see **DSSE-KMS pricing** on the **Storage** tab of the Amazon S3 pricing page.

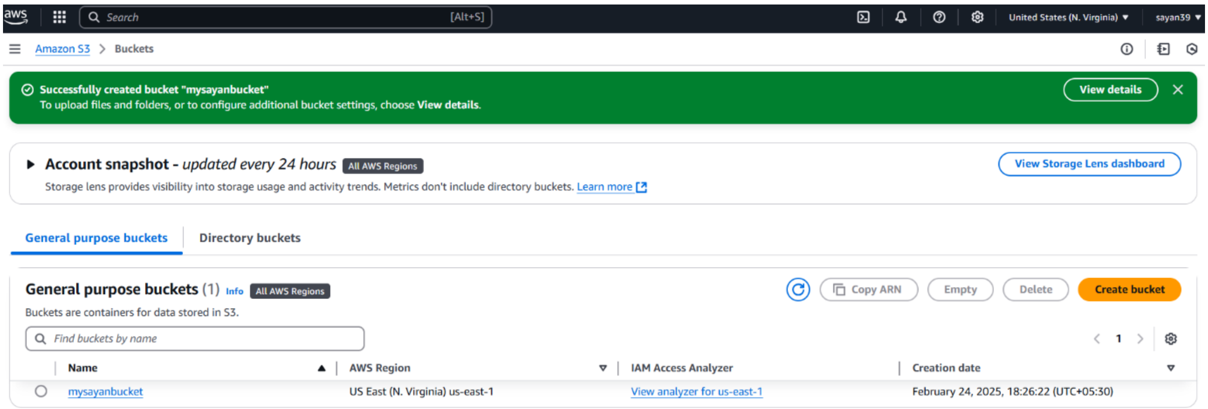
Bucket Key

Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. Learn more

○ Disable
● Enable

Step-4:

Now click on the name of the created bucket.



Successfully created bucket "mysayanbucket"
To upload files and folders, or to configure additional bucket settings, choose **View details**.

▸ **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

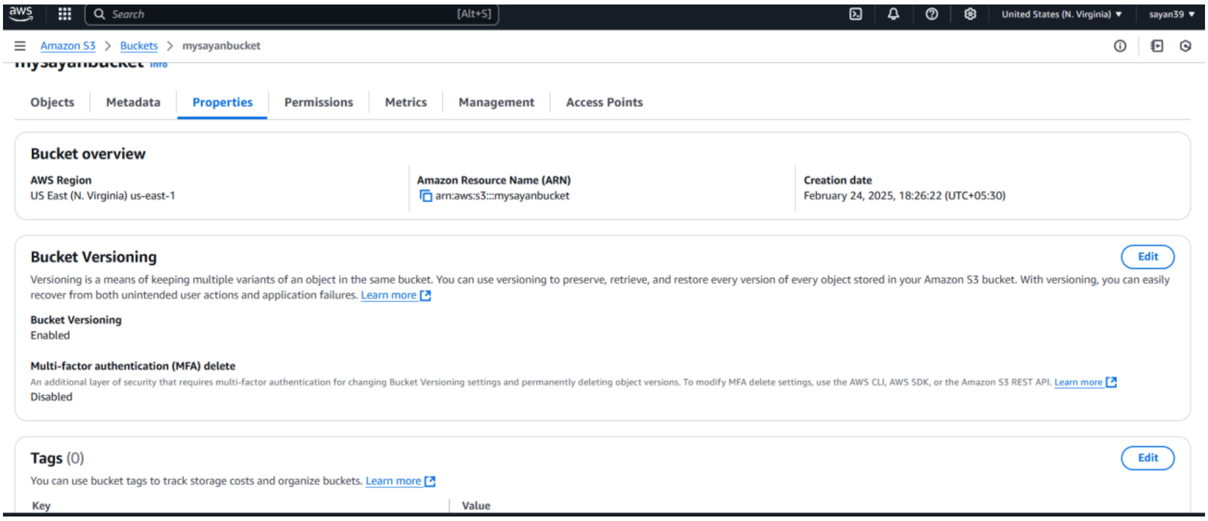
General purpose buckets (1) Info All AWS Regions

Buckets are containers for data stored in S3.

	Name	AWS Region	IAM Access Analyzer	Creation date
○	mysayanbucket	US East (N. Virginia) us-east-1	View analyzer for us-east-1	February 24, 2025, 18:26:22 (UTC+05:30)

Step-5:

Open the properties and scroll down to Static website hosting then click on edit.



Bucket overview

AWS Region	Amazon Resource Name (ARN)	Creation date
US East (N. Virginia) us-east-1	arn:aws:s3:::mysayanbucket	February 24, 2025, 18:26:22 (UTC+05:30)

Bucket Versioning

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

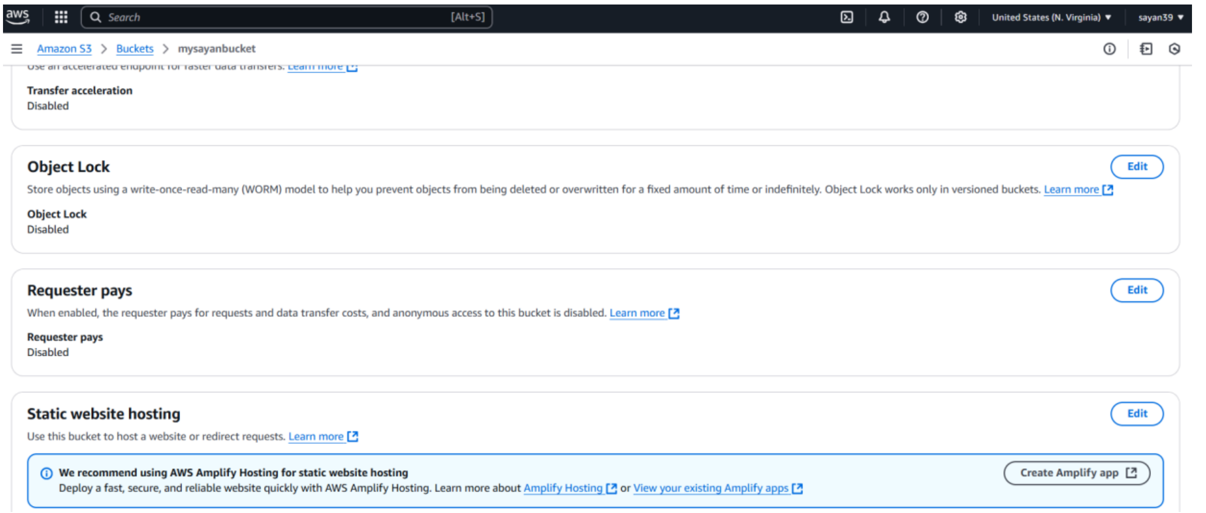
Bucket Versioning
Enabled

Multi-factor authentication (MFA) delete
An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. Learn more
Disabled

Tags (0)

You can use bucket tags to track storage costs and organize buckets. Learn more

Key	Value


Search [Alt+S]
United States (N. Virginia) ▾
sayan39 ▾
Amazon S3 > Buckets > mysayanbucket
Edit
Edit
Edit
Create Amplify app

Use an accelerated endpoint for faster data transfers. Learn more

Transfer acceleration
Disabled

Object Lock

Store objects using a write-once-read-many (WORM) model to help you prevent objects from being deleted or overwritten for a fixed amount of time or indefinitely. Object Lock works only in versioned buckets. Learn more

Object Lock
Disabled

Requester pays

When enabled, the requester pays for requests and data transfer costs, and anonymous access to this bucket is disabled. Learn more

Requester pays
Disabled

Static website hosting

Use this bucket to host a website or redirect requests. Learn more

We recommend using AWS Amplify Hosting for static website hosting
Deploy a fast, secure, and reliable website quickly with AWS Amplify Hosting. Learn more about Amplify Hosting or View your existing Amplify apps

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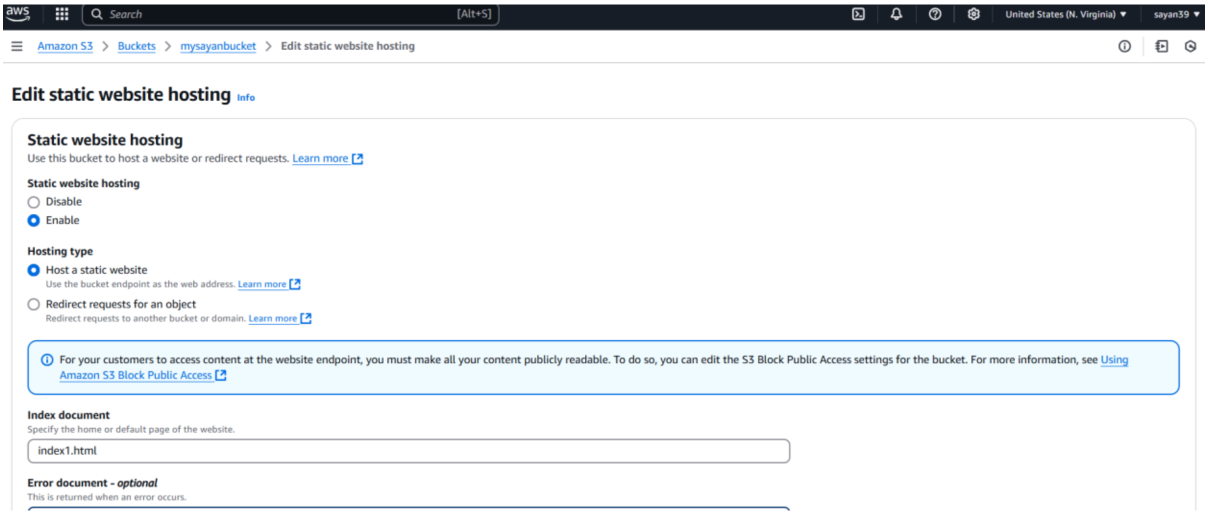
Step-6:

Click on enable and give the name of the home page in index document and click save changes.


Search
[Alt+S]
United States (N. Virginia) ▼
sayan39 ▼
Amazon S3 > Buckets > mysayanbucket > Edit static website hosting
Info

Edit static website hosting

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.

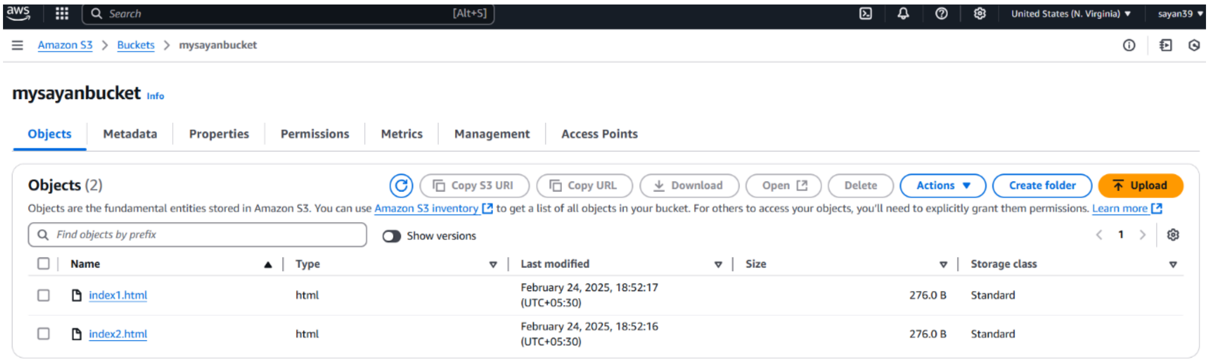
index1.html

Error document - *optional*

This is returned when an error occurs.

Step-7:

Select the files to be uploaded and click on open.



mysayanbucket

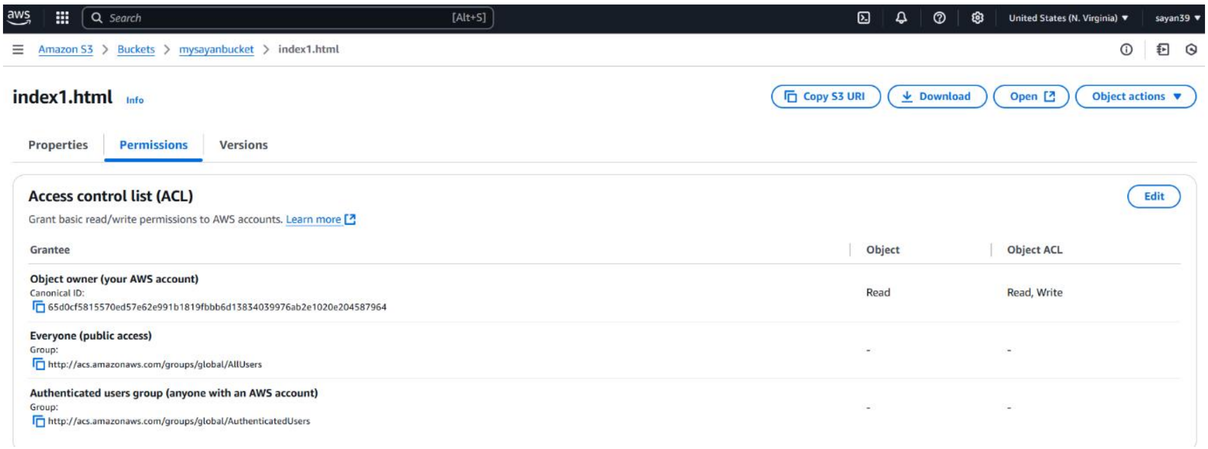
Objects (2)

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

□	Name	Type	Last modified	Size	Storage class
□	index1.html	html	February 24, 2025, 18:52:17 (UTC+05:30)	276.0 B	Standard
□	index2.html	html	February 24, 2025, 18:52:16 (UTC+05:30)	276.0 B	Standard

Step-8:

Open the permissions and edit



index1.html

Access control list (ACL)

Grant basic read/write permissions to AWS accounts. Learn more

Grantee	Object	Object ACL
Object owner (your AWS account) Canonical ID: 65d0cf5815570ed57e62e991b1819fbbb6d13834039976ab2e1020e204587964	Read	Read, Write
Everyone (public access) Group: http://acs.amazonaws.com/groups/global/AllUsers	-	-
Authenticated users group (anyone with an AWS account) Group: http://acs.amazonaws.com/groups/global/AuthenticatedUsers	-	-

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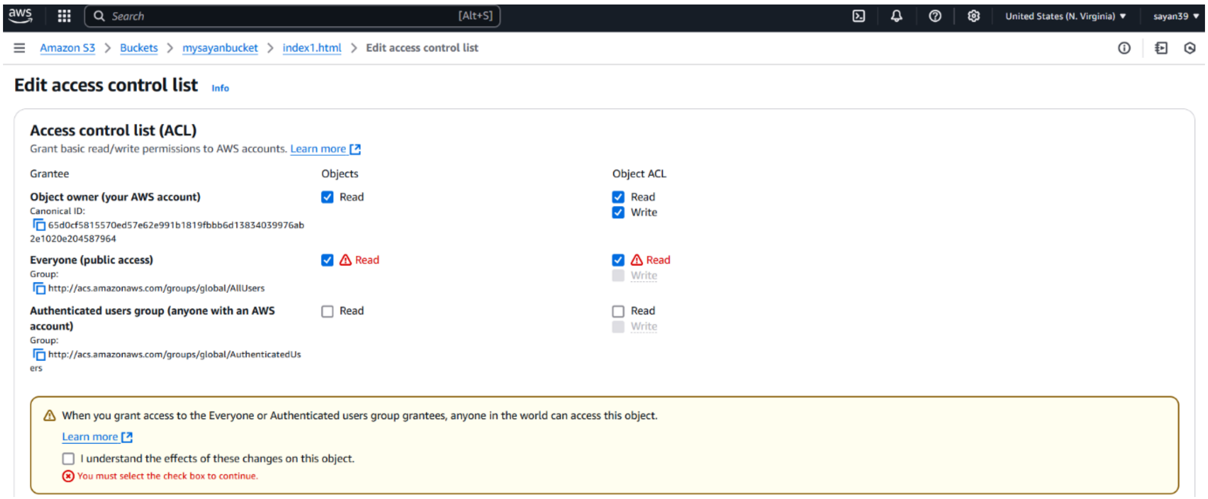
Step-9:

Edit the ACL set everyone to read.



aws
Search [Alt+S]
United States (N. Virginia) ▾
sayan39 ▾
Amazon S3 > Buckets > mysayanbucket > index1.html > Edit access control list

Edit access control list Info

Access control list (ACL)

Grant basic read/write permissions to AWS accounts. Learn more

Grantee	Objects	Object ACL
Object owner (your AWS account) Canonical ID: 65d0cf5815570ed57e62e991b1819fbbb6d13834039976ab2e1020e204587964	☑ Read	☑ Read ☑ Write
Everyone (public access) Group: http://acs.amazonaws.com/groups/global/AllUsers	☑ ⚠ Read	☑ ⚠ Read □ Write
Authenticated users group (anyone with an AWS account) Group: http://acs.amazonaws.com/groups/global/AuthenticatedUsers	□ Read	□ Read □ Write

⚠ When you grant access to the Everyone or Authenticated users group grantees, anyone in the world can access this object.

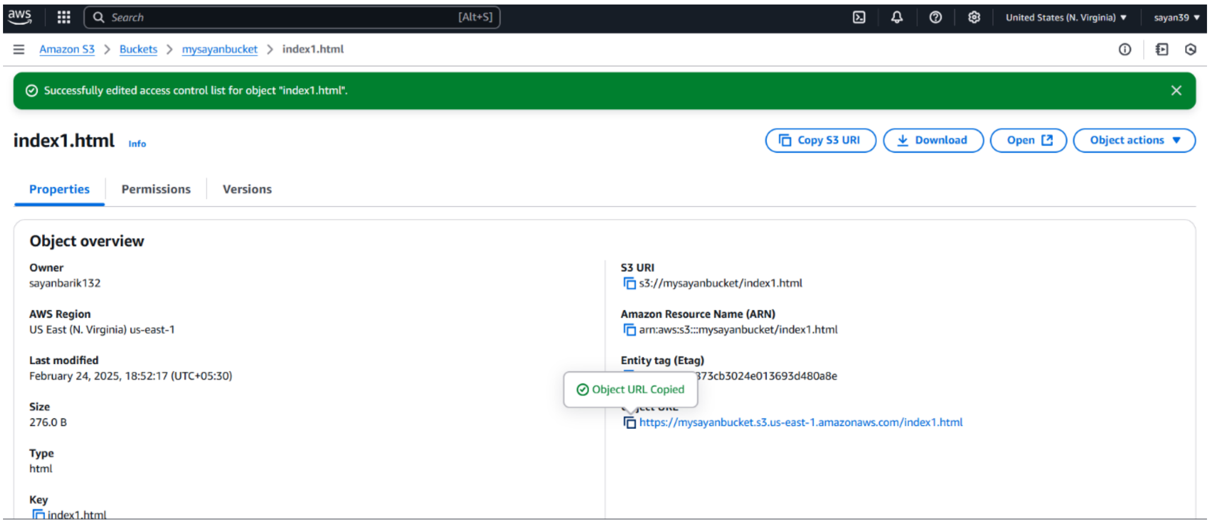
Learn more

□ I understand the effects of these changes on this object.

You must select the check box to continue.

Step-10:

Copy the Object URL of the home page and open it in incognito mode.



aws
Search [Alt+S]
United States (N. Virginia) ▾
sayan39 ▾
Amazon S3 > Buckets > mysayanbucket > index1.html

Successfully edited access control list for object "index1.html".

index1.html Info

Object overview

Owner
sayanbarik132

AWS Region
US East (N. Virginia) us-east-1

Last modified
February 24, 2025, 18:52:17 (UTC+05:30)

Size
276.0 B

Type
html

Key
index1.html

S3 URI
s3://mysayanbucket/index1.html

Amazon Resource Name (ARN)
arn:aws:s3:::mysayanbucket/index1.html

Entity tag (Etag)
373cb3024e013693d480a8e

Object URL Copied

https://mysayanbucket.s3.us-east-1.amazonaws.com/index1.html

Step-11:

Open the permissions and click on edit.

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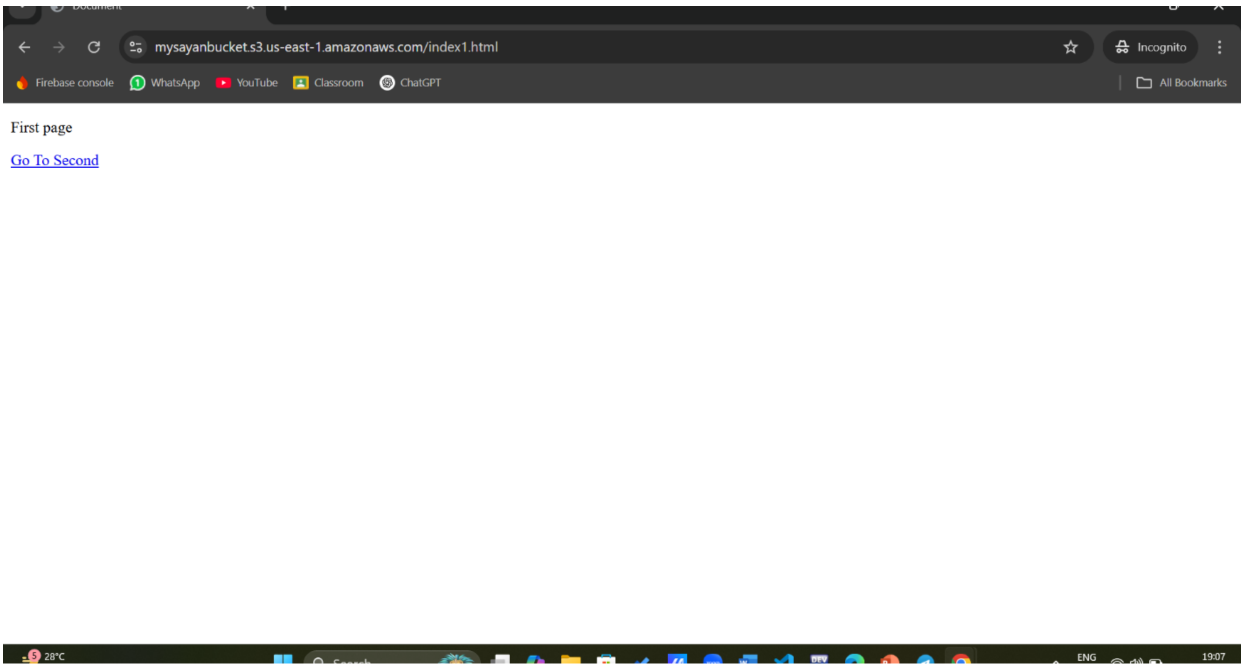
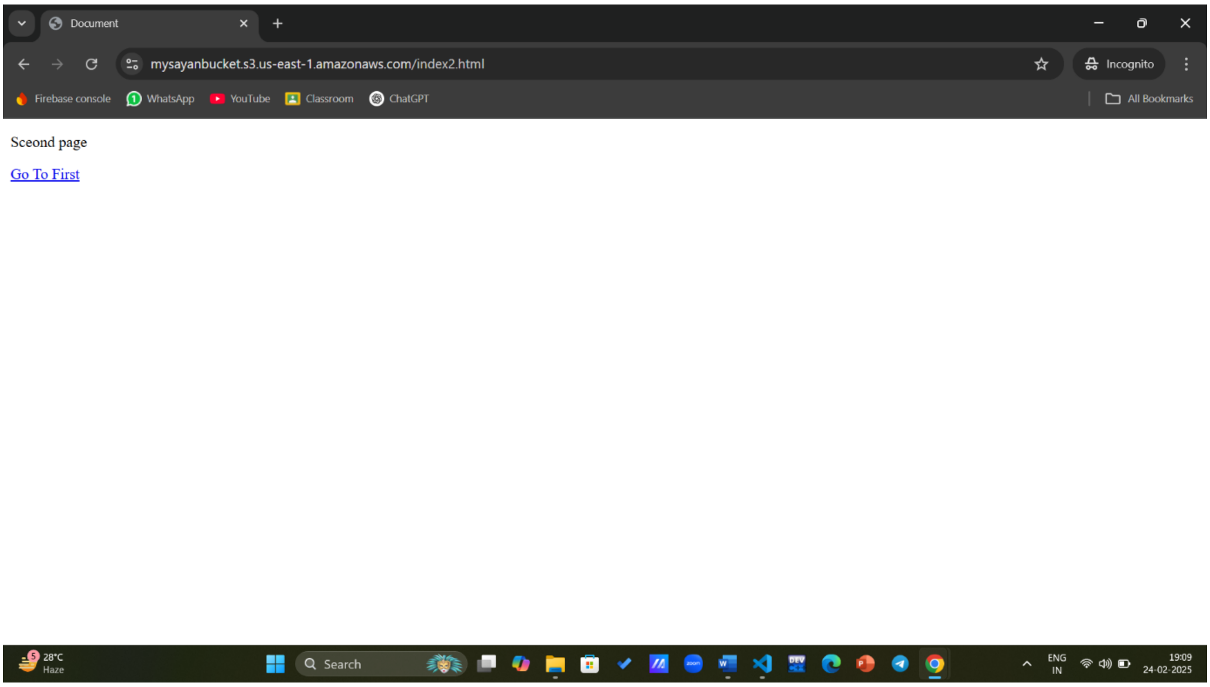
Class Roll:CSE(DS)/22/039



First page

Go To Second



Sceond page

Go To First

Name:Sayan Barik
Class Roll:CSE(DS)/22/039