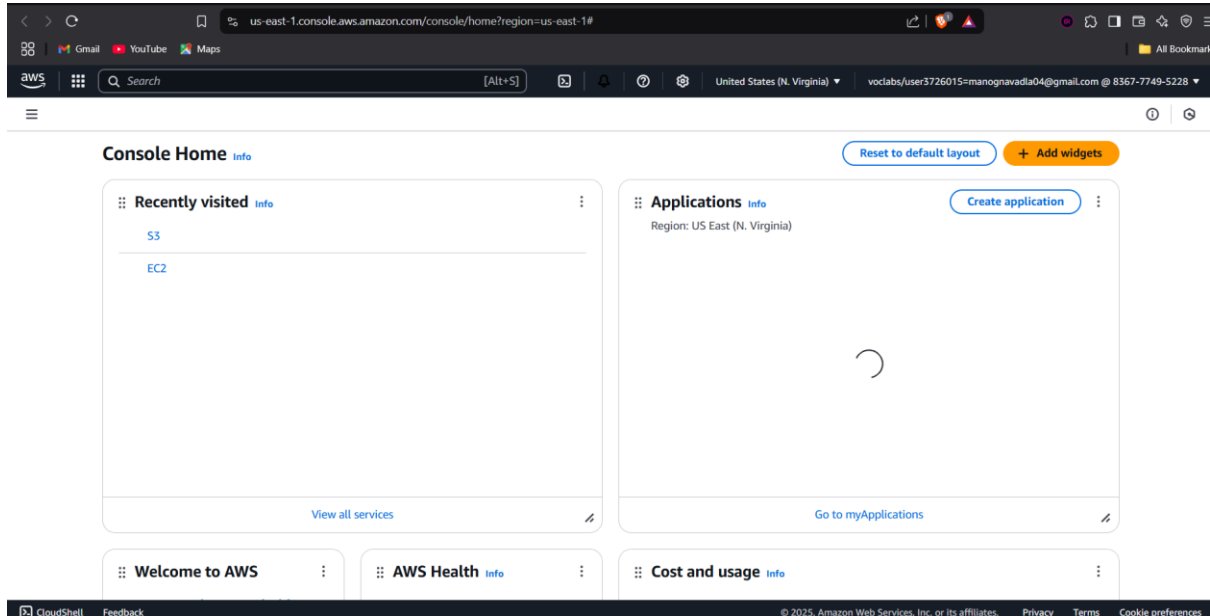
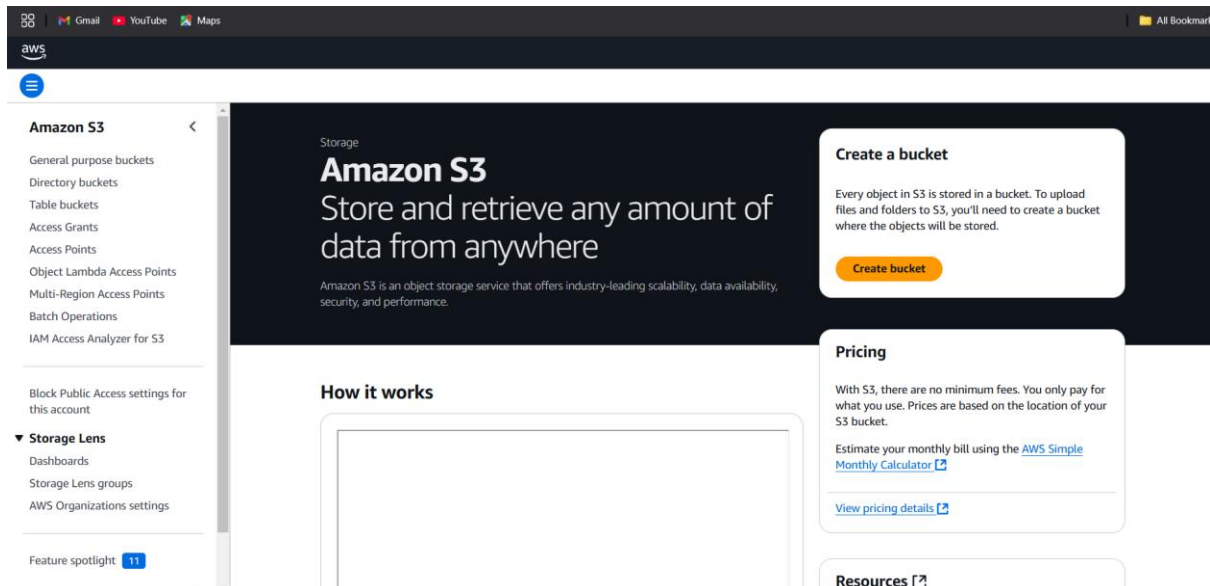


EXPERIMENT-2: CREATING A S3 BUCKET AND MANAGING OBJECT AND BUCKET LEVEL PERMISSIONS

Log in to your AWS account and navigate to the landing page



Select the S3 service , the following page will be shown



Click on create bucket , name your bucket and let the general configuration be default

aws

Amazon S3

Buckets

Create bucket

Create bucket

info

Buckets are containers for data stored in S3.

General configuration

AWS Region

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

myowbucket

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.

Let the default settings for the bucket be the same

Amazon S3

Buckets

Create bucket

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.

Object Ownership

Bucket owner enforced

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.

And then click on create bucket

Amazon S3 > Buckets > Create bucket

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

☒ 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](#)

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

► Advanced settings

After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel

Create bucket

Bucket successfully created

Successfully created bucket "kmit-22bd1a053w"
To upload files and folders, or to configure additional bucket settings, choose [View details](#).

Account snapshot - updated every 24 hours [View Storage Lens dashboard](#)

General purpose buckets (2) [Info](#) [All AWS Regions](#)

Buckets are containers for data stored in S3.

Find buckets by name

| Name | AWS Region | IAM Access Analyzer | Creation date |
|---------------------------------|---------------------------------|---|---|
| 22bd1a053w | US East (N. Virginia) us-east-1 | View analyzer for us-east-1 | February 20, 2025, 10:59:33 (UTC+05:30) |
| kmit-22bd1a053w | US East (N. Virginia) us-east-1 | View analyzer for us-east-1 | February 20, 2025, 11:01:44 (UTC+05:30) |

Select the bucket and click on upload

[Amazon S3](#) > [Buckets](#) > [kmit-22bd1a053w](#)

kmit-22bd1a053w [Info](#)

[Objects](#) [Metadata](#) [Properties](#) [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

Objects (0) [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 |
|--|------|---------------|------|---------------|
| No objects You don't have any objects in this bucket. | | | | |

[Upload](#)

Here you can add files and folders

The screenshot shows the Amazon S3 'Upload' page for bucket 'kmit-22bd1a053w'. The breadcrumb navigation is 'Amazon S3 > Buckets > kmit-22bd1a053w > Upload'. The page title is 'Upload' with an 'Info' link. A message states: 'Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDKs or Amazon S3 REST API. [Learn more](#)'. Below this is a dashed box with the instruction: 'Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.' The 'Files and folders (0)' section indicates 'All files and folders in this table will be uploaded.' It includes a search bar 'Find by name' and a table with columns: Name, Folder, Type, and Size. The table is currently empty, with a message: 'No files or folders. You have not chosen any files or folders to upload.' Action buttons 'Remove', 'Add files', and 'Add folder' are present. The 'Destination' section shows the path 's3://kmit-22bd1a053w' and a 'Destination details' link.

Click on add file and select your portfolio document and an image

This screenshot shows the same Amazon S3 Upload page as before, but with a file explorer window open over it. The file explorer is titled 'us-east-1.console.aws.amazon.com wants to open' and shows the 'Desktop' location. It displays a list of files and folders: 'feedback styles' (File folder, 17-02-2025 10:58), 'portfolio styles' (File folder, 17-02-2025 10:55), 'feedback' (Brave HTML Docu..., 3 KB, 17-02-2025 11:55), 'nav' (Brave HTML Docu..., 1 KB, 13-02-2025 13:06), 'portfolio' (Brave HTML Docu..., 5 KB, 17-02-2025 10:23), and 'portfolio-css' (Brave HTML Docu..., 7 KB, 17-02-2025 11:36). The 'portfolio-css' file is selected. The file explorer has a search bar 'Search 13-02' and a 'File name' field containing 'portfolio-css'. The 'All Files' file type is selected. The 'Open' button is visible. In the background, the S3 Upload page shows 'Files and folders (1 total, 5.7 MB)' and the 'Destination' section.

The files are successfully uploaded

Upload succeeded
For more information, see the [Files and folders table](#).

After you navigate away from this page, the following information is no longer available.

Summary

Destination

Succeeded

Failed

Now click on object

Amazon S3

Buckets

kmit-22bd1a053w

Info

Objects

Metadata

Properties

Permissions

Metrics

Management

Access Points

Objects (2)

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Find objects by prefix

| <input type="checkbox"/> | Name | Type | Last modified | Size | Storage class |
|--------------------------|------------------------------------|------|---|--------|---------------|
| <input type="checkbox"/> | DSC_0002.JPG | JPG | February 20, 2025, 11:09:50 (UTC+05:30) | 5.7 MB | Standard |
| <input type="checkbox"/> | portfolio-css.html | html | February 20, 2025, 11:08:33 (UTC+05:30) | 6.4 KB | Standard |

Copy the public url and paste it in the new tab of the browser

URL: https://kmit-22bd1a053w.s3.us-east-1.amazonaws.com/DSC_0002.JPG

aws

Search

[Alt+S]

United States (N. Virginia)

voclabs/user3726015=manognavadia04@gmail.com @ 8367-7749-5228

Amazon S3

Buckets

kmit-22bd1a053w

DSC_0002.JPG

DSC_0002.JPG

Info

Copy S3 URI

Download

Open

Object actions

Properties

Permissions

Versions

Object overview

Owner

awslabs0w4279673t1657727112

AWS Region

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

Last modified

February 20, 2025, 11:09:50 (UTC+05:30)

Size

5.7 MB

Type

JPG

Key

DSC_0002.JPG

S3 URI

s3://kmit-22bd1a053w/DSC_0002.JPG

Amazon Resource Name (ARN)

arn:aws:s3::kmit-22bd1a053w/DSC_0002.JPG

Entity tag (Etag)

977b7dcb5fab1d6dc7636c

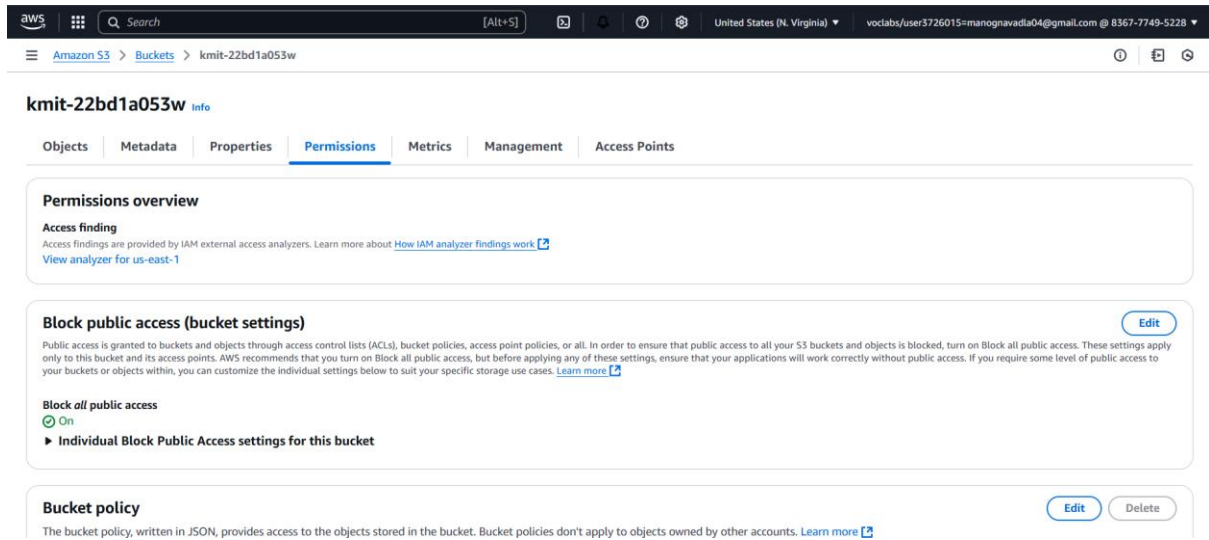
Object URL Copied

https://kmit-22bd1a053ws3.us-east-1.amazonaws.com/DSC_0002.JPG

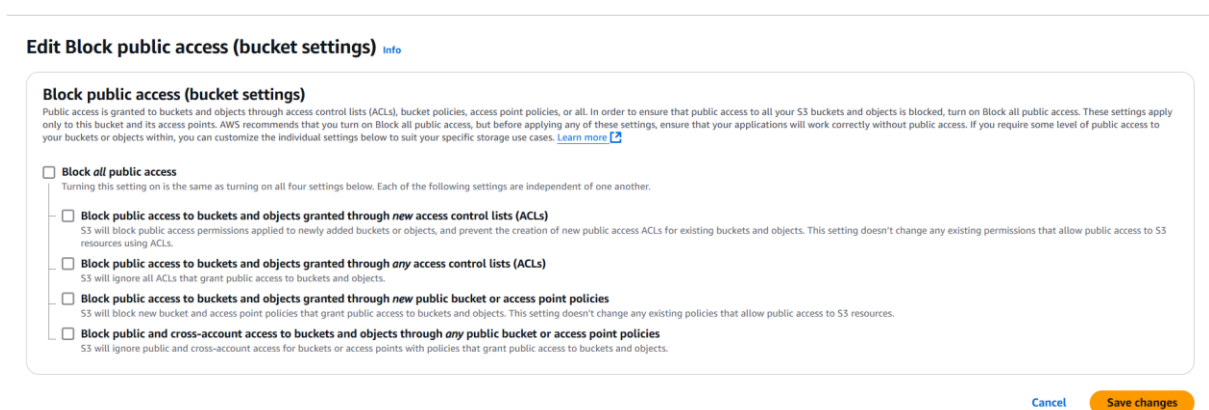
It shows error as the default settings do not give permission for public access



Now navigate to the permissions section in bucket



Edit the Block public access settings and click on save changes



Type confirm and click on confirm

Edit Block public access (bucket settings)

⚠ Updating the Block Public Access settings for this bucket will affect this bucket and all objects within. This may result in some objects becoming public.

To confirm the settings, enter *confirm* in the field.

confirm

Cancel

Confirm

The settings are successfully updated



Edit the Object Ownership

Object Ownership Info

Edit

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.

Object Ownership
Bucket owner enforced
ACLs are disabled. All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

Select ACL enabled and click on acknowledgement checkbox

Amazon S3 > Buckets > kmit-22bd1a053w > Edit Object Ownership

Edit Object Ownership Info

Object Ownership
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.

⚠ Enabling ACLs turns off the bucket owner enforced setting for Object Ownership
Once the bucket owner enforced setting is turned off, access control lists (ACLs) and their associated permissions are restored. Access to objects that you do not own will be based on ACLs and not the bucket policy.

☒ I acknowledge that ACLs will be restored.

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.

Click on save and the object ownership is successfully edited

Successfully edited Object Ownership.

Now click on edit for Access control list

Access control list (ACL)Edit

Grant basic read/write permissions to other AWS accounts. [Learn more](#)

The console displays combined access grants for duplicate grantees. To see the full list of ACLs, use the Amazon S3 REST API, AWS CLI, or AWS SDKs.

| Grantee | Objects | Bucket ACL |
|--|-------------|-------------|
| Bucket owner (your AWS account) Canonical ID: c4e67c64e6acc420aac1e9cd8db115d26c7af03f516b0ce16ee7a6acfa367f2a | List, Write | 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 | - | - |
| S3 log delivery group Group: http://acs.amazonaws.com/groups/s3/LogDelivery | - | - |

Check the List and Read boxes for public access

[Alt+S] United States (N. Virginia) voclabs/user3726015=manognavdia04@gmail.com @ 8367-7749-5228

Amazon S3 > Buckets > kmit-22bd1a053w > Edit access control list (ACL)

Edit access control list (ACL) [info](#)

Access control list (ACL)
Grant basic read/write permissions to other AWS accounts. [Learn more](#)

| Grantee | Objects | Bucket ACL |
|--|---|---|
| Bucket owner (your AWS account) Canonical ID: c4e67c64e6acc420aac1e9cd8db115d26c7af03f516b0ce16ee7a6acfa367f2a | <input checked="" type="checkbox"/> List <input checked="" type="checkbox"/> Write | <input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write |
| Everyone (public access) Group: http://acs.amazonaws.com/groups/global/AllUsers | <input checked="" type="checkbox"/> List <input type="checkbox"/> Write | <input checked="" type="checkbox"/> Read <input type="checkbox"/> Write |
| Authenticated users group (anyone with an AWS account) Group: http://acs.amazonaws.com/groups/global/AuthenticatedUsers | <input type="checkbox"/> List <input type="checkbox"/> Write | <input type="checkbox"/> Read <input type="checkbox"/> Write |
| S3 log delivery group Group: http://acs.amazonaws.com/groups/s3/LogDelivery | <input type="checkbox"/> List <input type="checkbox"/> Write | <input type="checkbox"/> Read <input type="checkbox"/> Write |

When you grant access to the Everyone or Authenticated users group grantees, anyone in the world can access the objects in this bucket. [Learn more](#)

Click on save changes and the ACL is successfully edited

Successfully edited access control list.

Go to object Permissions and click on edit for ACL

Amazon S3 > Buckets > kmit-22bd1a053w > DSC_0002.JPG

DSC_0002.JPG [Info](#)

[Copy S3 URI](#) [Download](#) [Open](#) [Object actions](#)

Properties **Permissions** Versions

Access control list (ACL) [Edit](#)

Grant basic read/write permissions to AWS accounts. [Learn more](#)

| Grantee | Object | Object ACL |
|--|--------|-------------|
| Object owner (your AWS account) Canonical ID: c4e67c64e6acc420aac1e9cd8db115d26c7af03f516b0ce16ee7a6acfa36772a | 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 | - | - |

Check the Read, Read boxes for the public access and save the changes

Amazon S3 > Buckets > kmit-22bd1a053w > DSC_0002.JPG > Edit access control list

Edit access control list [Info](#)

Access control list (ACL) [Learn more](#)

Grant basic read/write permissions to AWS accounts. [Learn more](#)

| Grantee | Objects | Object ACL |
|--|--|--|
| Object owner (your AWS account) Canonical ID: c4e67c64e6acc420aac1e9cd8db115d26c7af03f516b0ce16ee7a6acfa36772a | <input checked="" type="checkbox"/> Read | <input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write |
| Everyone (public access) Group: http://acs.amazonaws.com/groups/global/AllUsers | <input checked="" type="checkbox"/> Read | <input checked="" type="checkbox"/> Read <input type="checkbox"/> Write |
| Authenticated users group (anyone with an AWS account) Group: http://acs.amazonaws.com/groups/global/AuthenticatedUsers | <input type="checkbox"/> Read | <input type="checkbox"/> Read <input type="checkbox"/> Write |

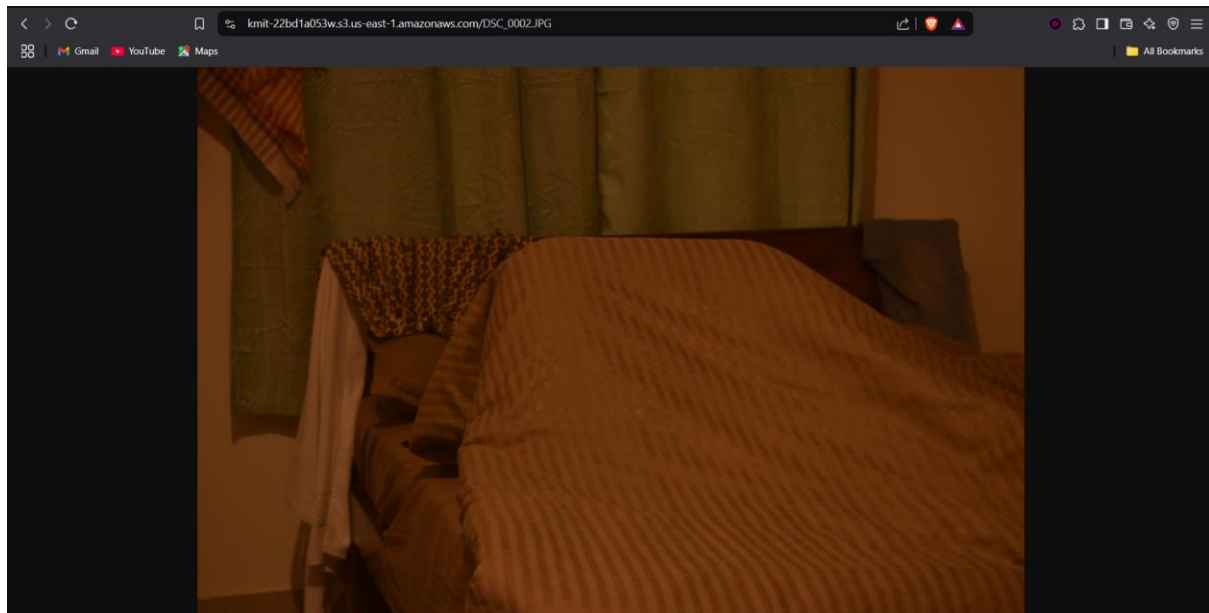
[When you grant access to the Everyone or Authenticated users group grantees, anyone in the world can access this object. \[Learn more\]\(#\)](#)

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

The changes are saved successfully

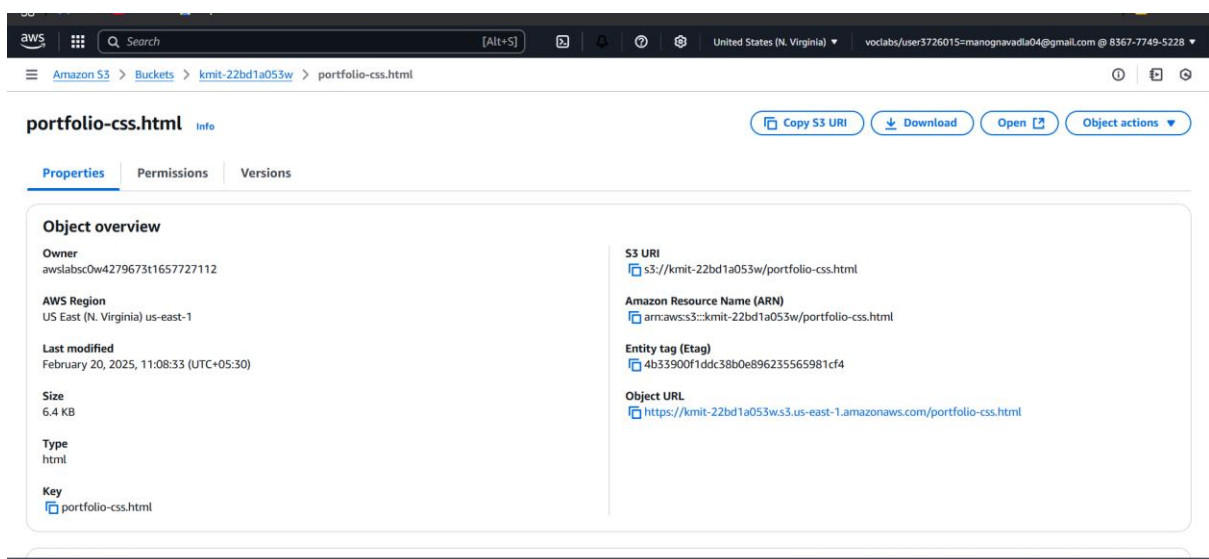
Successfully edited access control list for object "DSC_0002.JPG".

Now reload the page that showed error previously, now it will display the image

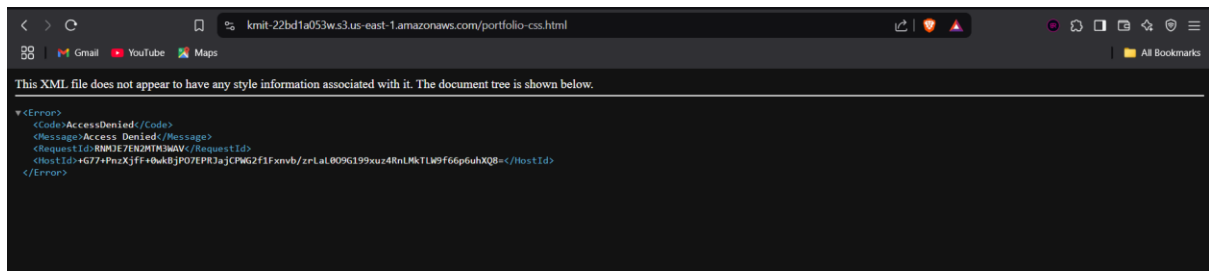


Similarly go to object Properties of the html file

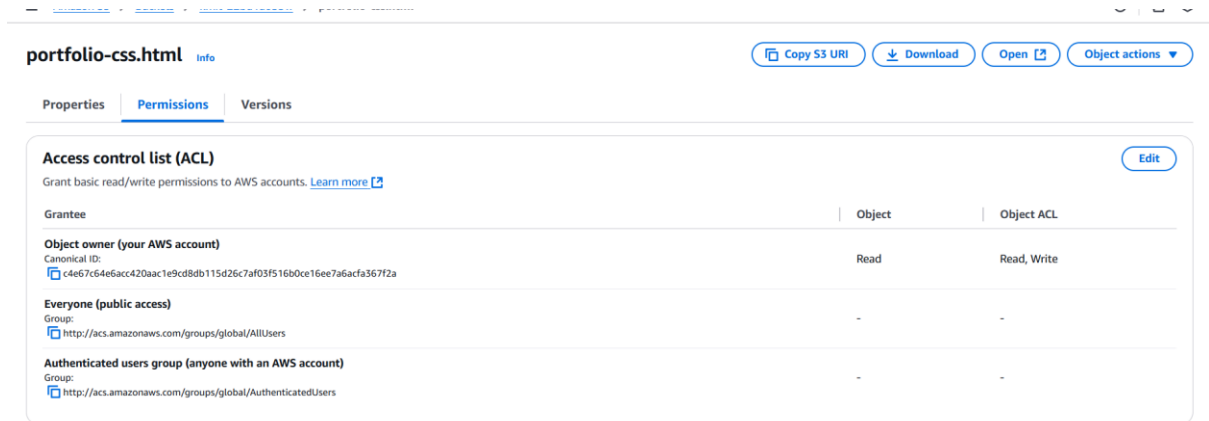
URL: <https://kmit-22bd1a053w.s3.us-east-1.amazonaws.com/portfolio-css.html>



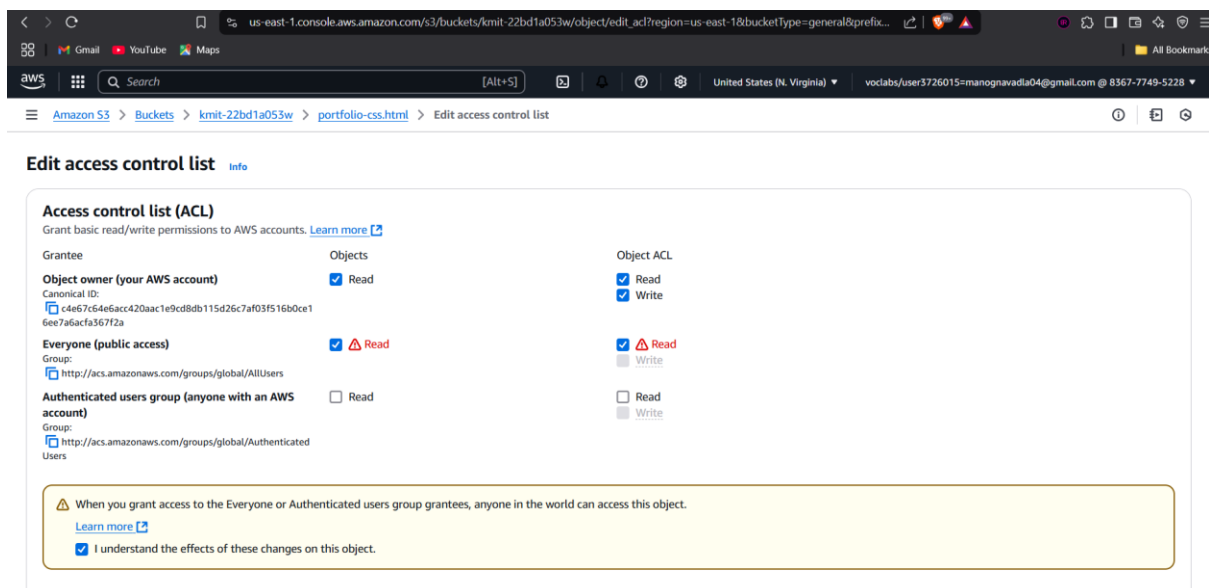
Copy the url and paste it in the browser, It shows error as the public access is not given



Go to object Permissions and click on edit for ACL



Check the Read, Read boxes for the public access



The changes are saved successfully

Successfully edited access control list for object "portfolio-css.html".

Now reload the page that showed error previously, now it will display the html document

