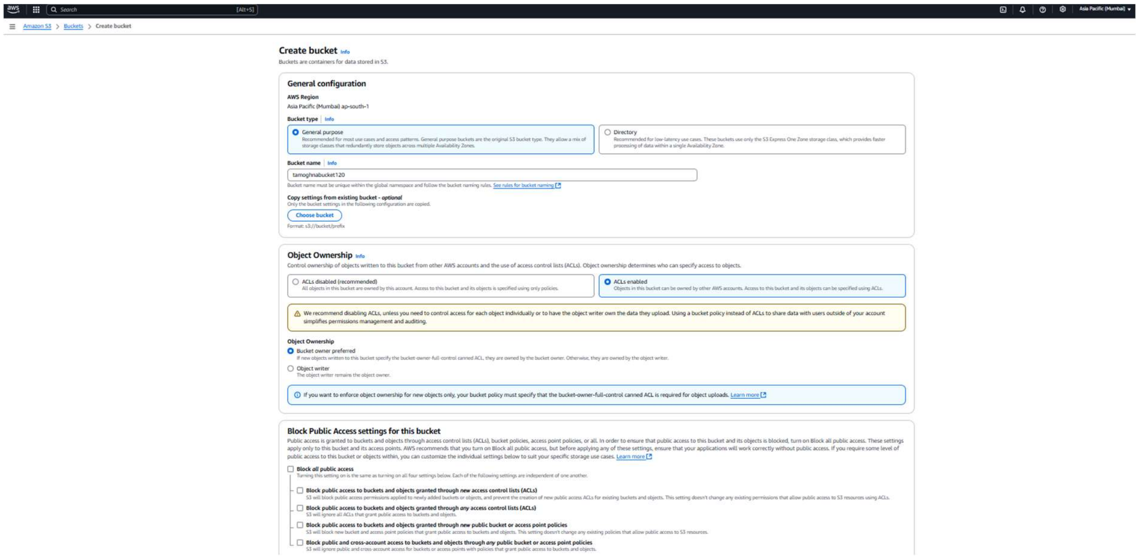
Assignment no: 5

Problem Statement: Create a public bucket in AWS .Upload a file and give the necessary permission to check the file URL is working.

Solution:

1. At first go to the s3 bucket and tap on create bucket.
2. Give a name of the bucket.
3. Then in the object ownership tap on the ACLs enabled option.



Create bucket Info
Buckets are containers for data stored in S3.

General configuration

AWS Region
Asia Pacific (Mumbai) ap-south-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
tamoghnabucket120
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.

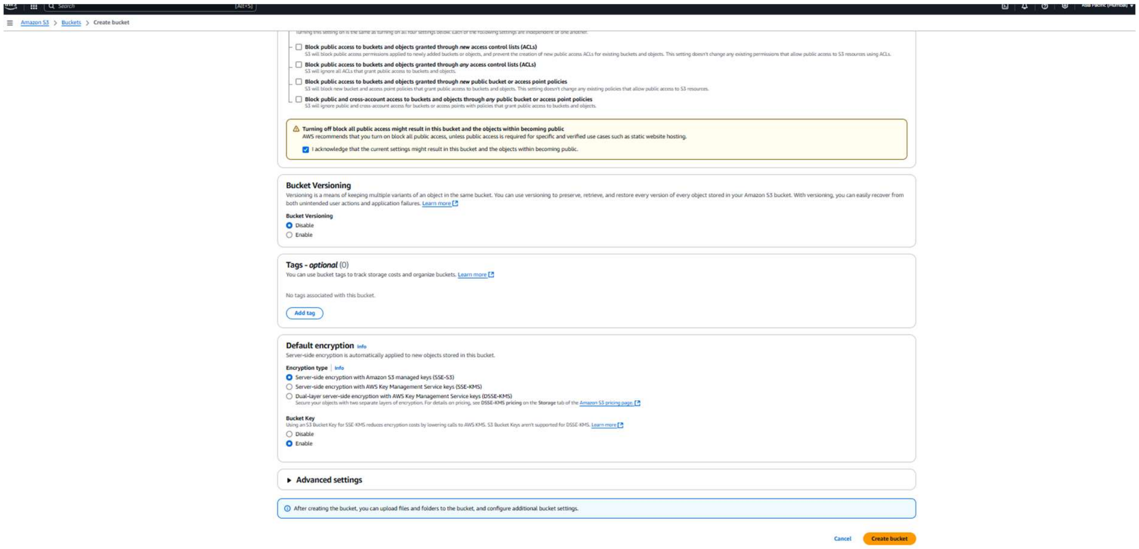
Object Ownership
● Bucket owner preferred
If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.
○ Object writer
The object writer remains the object owner.

ⓘ 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.



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.

⚠ **Turning off block all public access might result in this bucket and the objects within becoming public**
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

☑ I acknowledge that the current settings might result in this bucket and the objects within becoming public.

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.

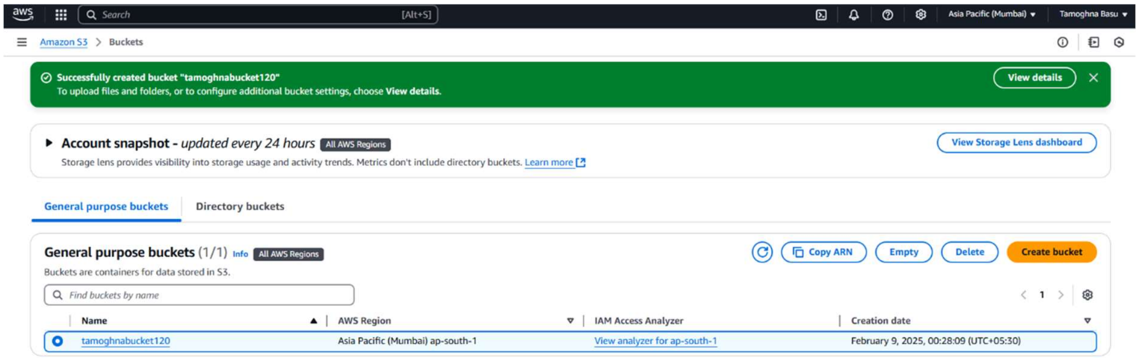
Default encryption Info

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

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



✓ **Successfully created bucket "tamoghnabucket120"**
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

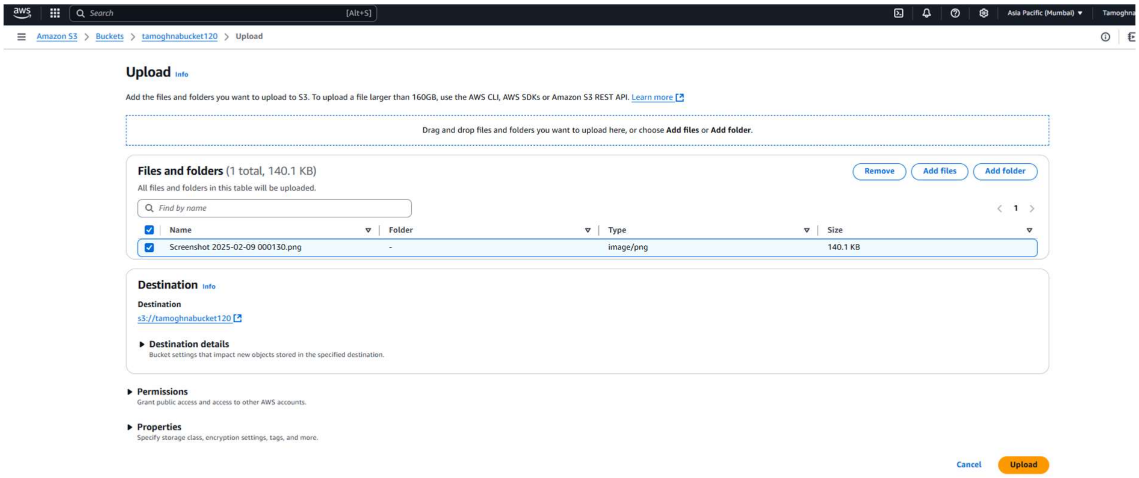
General purpose buckets (1/1) Info All AWS Regions

Buckets are containers for data stored in S3.

	Name	AWS Region	IAM Access Analyzer	Creation date
●	tamoghnabucket120	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	February 9, 2025, 00:28:09 (UTC+05:30)

4. Go to the created bucket and click on the upload option.

5. And upload a picture .



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 SDKs 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 (1 total, 140.1 KB)

All files and folders in this table will be uploaded.

☑	Name	Folder	Type	Size
☑	Screenshot 2025-02-09 000130.png	-	image/png	140.1 KB

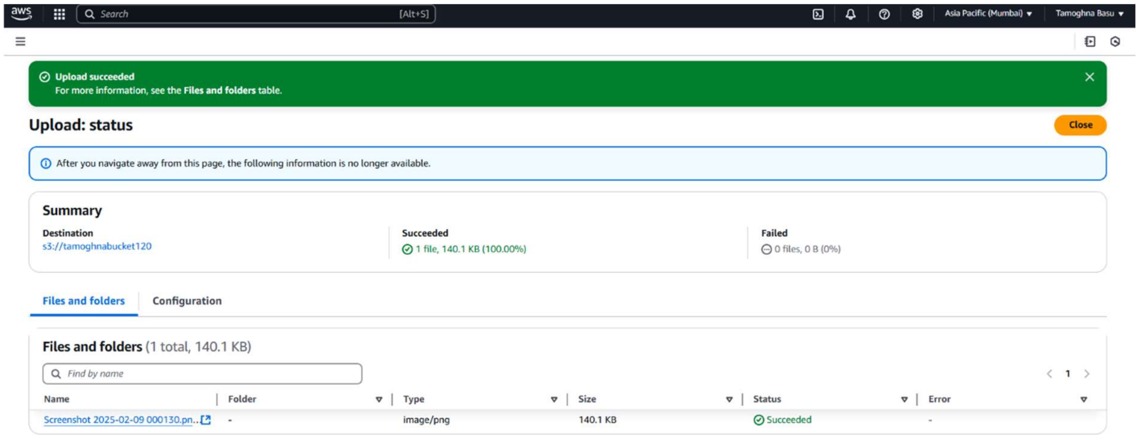
Destination Info

Destination
s3://tamoghnabucket120

▸ **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.



Upload succeeded
For more information, see the **Files and folders** table.

Upload: status

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

Summary

Destination s3://tamoghnabucket120

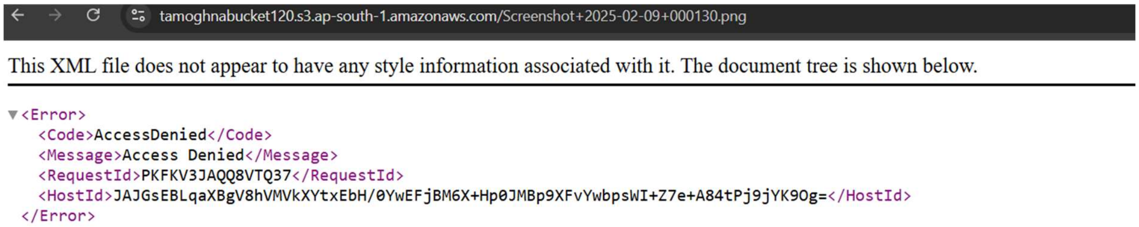
Succeeded 1 file, 140.1 KB (100.00%)

Failed 0 files, 0 B (0%)

Files and folders (1 total, 140.1 KB)

Name	Folder	Type	Size	Status	Error
Screenshot 2025-02-09 000130.pn..	-	image/png	140.1 KB	Succeeded	-

6. Then tick the bucket and copy the url to check whether is it working or not.
7. But it is not working



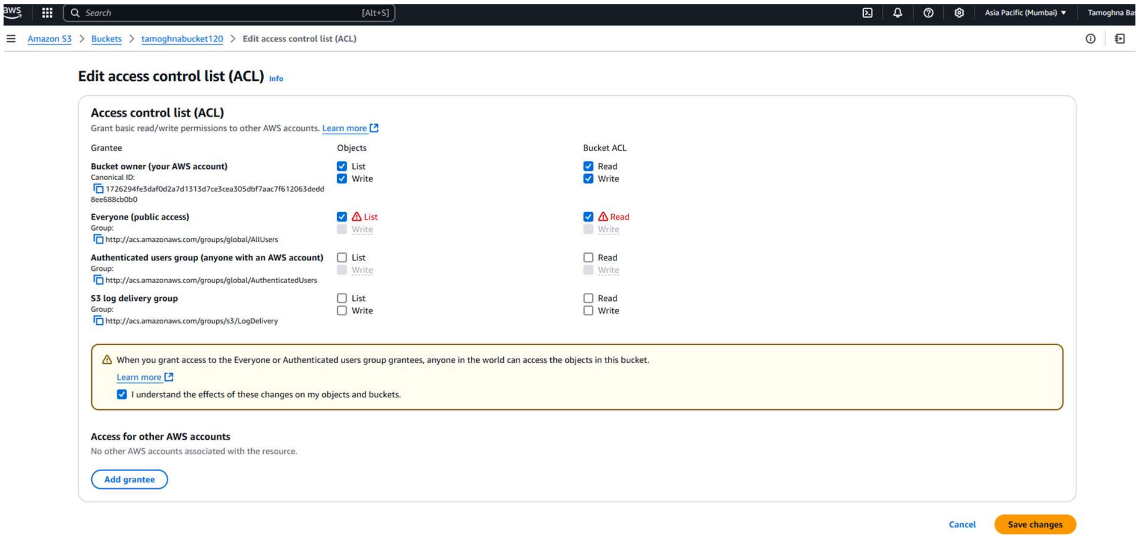
tamoghnabucket120.s3.ap-south-1.amazonaws.com/Screenshot+2025-02-09+000130.png

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
▼<Error>
   <Code>AccessDenied</Code>
   <Message>Access Denied</Message>
   <RequestId>PKFKV3JAQQ8VTQ37</RequestId>
   <HostId>JAJGsEBLqaXBgV8hVMVkXYtxEbH/0YwEFjBM6X+Hp0JMBp9XFvYwbpsWI+Z7e+A84tPj9jYK9Og=</HostId>
 </Error>
```

8. After create a public bucket we changes some permission and use the URL.

9. Thus the private bucket is created.



Amazon S3 > Buckets > tamoghnabucket120 > 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: 1726294fe3daf0d2a7d1313d7ce3cea305dbf7aac7f612063dedd8ee688cb0b0	☑ List ☑ Write	☑ Read ☑ Write
Everyone (public access) Group: http://acs.amazonaws.com/groups/global/AllUsers	☑ ⚠ List □ Write	☑ ⚠ Read □ Write
Authenticated users group (anyone with an AWS account) Group: http://acs.amazonaws.com/groups/global/AuthenticatedUsers	□ List □ Write	□ Read □ Write
S3 log delivery group Group: http://acs.amazonaws.com/groups/s3/LogDelivery	□ List □ Write	□ Read □ Write

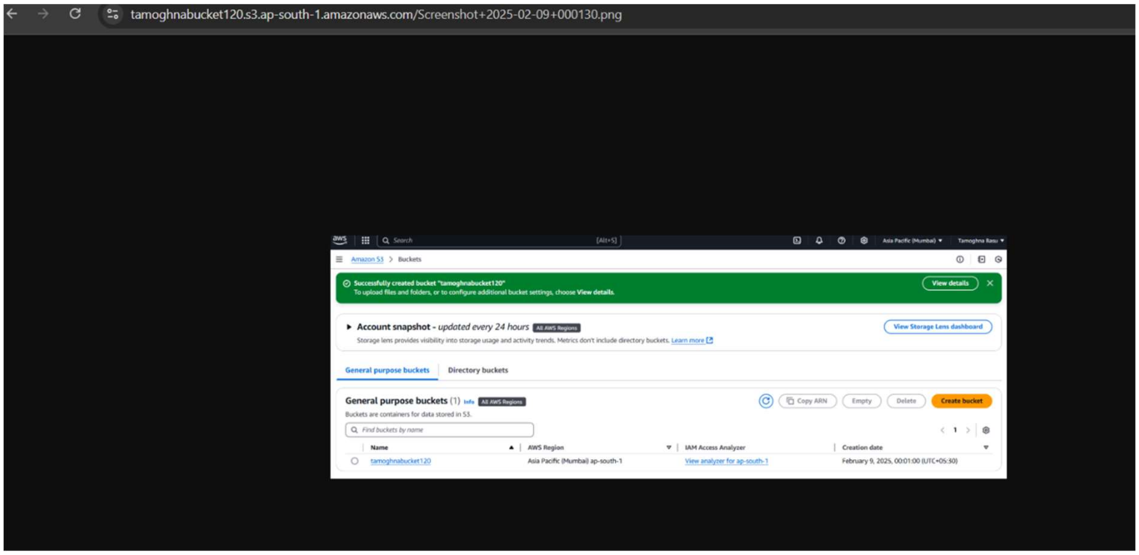
⚠ When you grant access to the Everyone or Authenticated users group grantees, anyone in the world can access the objects in this bucket.

Learn more

☑ I understand the effects of these changes on my objects and buckets.

Access for other AWS accounts

No other AWS accounts associated with the resource.


tamoghnabucket120.s3.ap-south-1.amazonaws.com/Screenshot+2025-02-09+000130.png
aws
Search [Alt+S]
Asia Pacific (Mumbai) ▾
Tamoghna Basu ▾
Amazon S3 > Buckets

Successfully created bucket "tamoghnabucket120"
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
○	tamoghnabucket120	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	February 9, 2025, 00:01:00 (UTC+05:30)