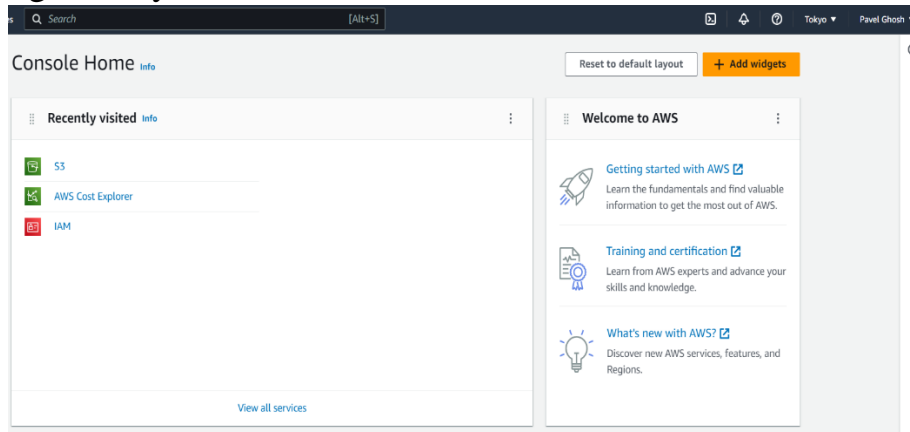


Assignment 4

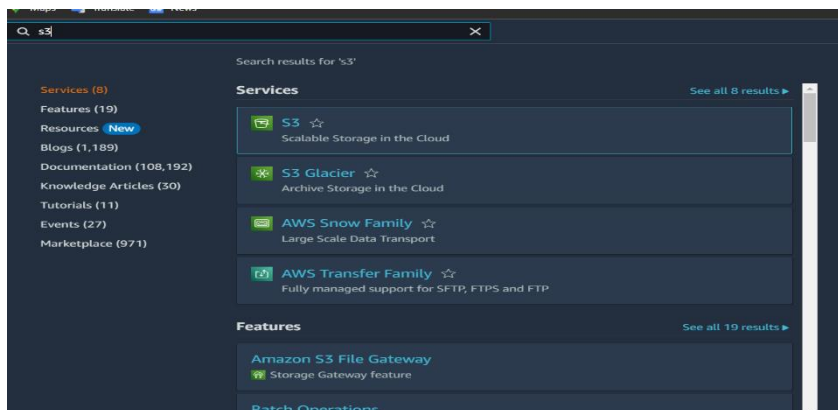
Problem Statement: Create a private bucket in AWS. Upload a file and check that through pre-signed URL whether you can access the file or not.

Procedure:

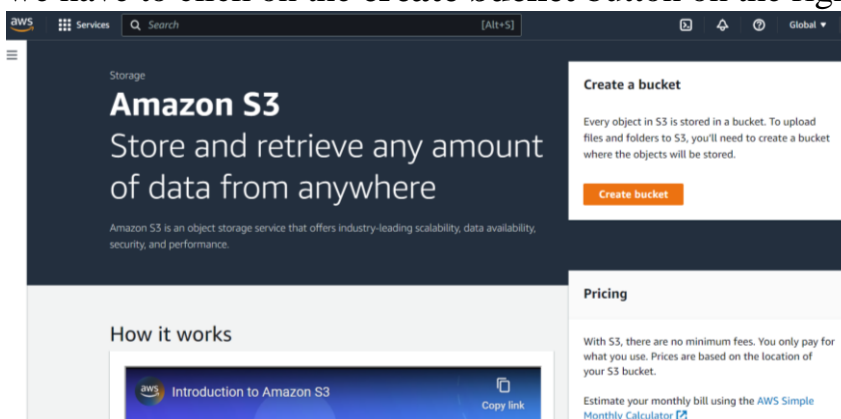
1. Sign in to your **AWS account** as root user.



2. Now in the **homepage** search for **S3** in the **search box** and then select the first option displayed.



3. After clicking on it, you will be redirected to the **Amazon S3** homepage. There we have to click on the **create bucket** button on the right hand side.



4. Next you will go to the **Create bucket screen** where you have to configure your bucket before creating it.
- Choose a globally unique name for your bucket. It should NOT contain any spaces or any uppercase letters.
 - Select the **AWS Region** as **Asia Pacific (Mumbai) ap-south-1**. **Remember** you can avail other options but each server region has **different pricing** associated with it. Since, we are **living in India**, we are choosing the one **closest to us** to remain fairly priced.
 - Next we go to Object Ownership section where we keep ACLs disabled option checked (as it is).
 - Next, we keep all public access blocked (as it is).
 - Everything else remains unchanged.
 - Now click on the Create bucket button.

Amazon S3 > Buckets > Create bucket

Create bucket Info

Buckets are containers for data stored in S3. [Learn more](#)

General configuration

Bucket name

Bucket name must be globally unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

AWS Region

Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.

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

Upcoming permission changes to disable ACLs
Starting in April 2023, to disable ACLs when creating buckets by using the S3 console, you will no longer need the `s3:PutBucketOwnershipControls` permission. [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.

5. After that we are redirected to the buckets page where we can see all our buckets in a table format.

Account snapshot [View Storage Lens dashboard](#)

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

Buckets (3) [Info](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Buckets are containers for data stored in S3. [Learn more](#)

	Name	AWS Region	Access	Creation date
<input type="radio"/>	s3pavelprivate2	Asia Pacific (Tokyo) ap-northeast-1	Bucket and objects not public	February 27, 2023, 03:00:55 (UTC+05:30)
<input type="radio"/>	s3pavelprivate7	Asia Pacific (Tokyo) ap-northeast-1	Bucket and objects not public	February 20, 2023, 15:28:57 (UTC+05:30)
<input type="radio"/>	s3pavelpublic1	Asia Pacific (Tokyo) ap-northeast-1	Objects can be public	February 20, 2023, 15:36:17 (UTC+05:30)

6. Now we click on our newly selected bucket (on the name).
7. Now we have successfully entered into our newly created bucket.

Amazon S3 > Buckets > s3pavelprivate2

s3pavelprivate2 [Info](#)

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

Objects (0)

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](#)

[Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#) [Upload](#)

	Name	Type	Last modified	Size	Storage class
No objects					
You don't have any objects in this bucket.					

[Upload](#)

8. Click the Upload button to upload a file in our bucket.
9. After clicking you will be redirected to the Upload page. Click on Add files button to add a file.

Amazon S3 > Buckets > s3pavelprivate2 > 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](#)

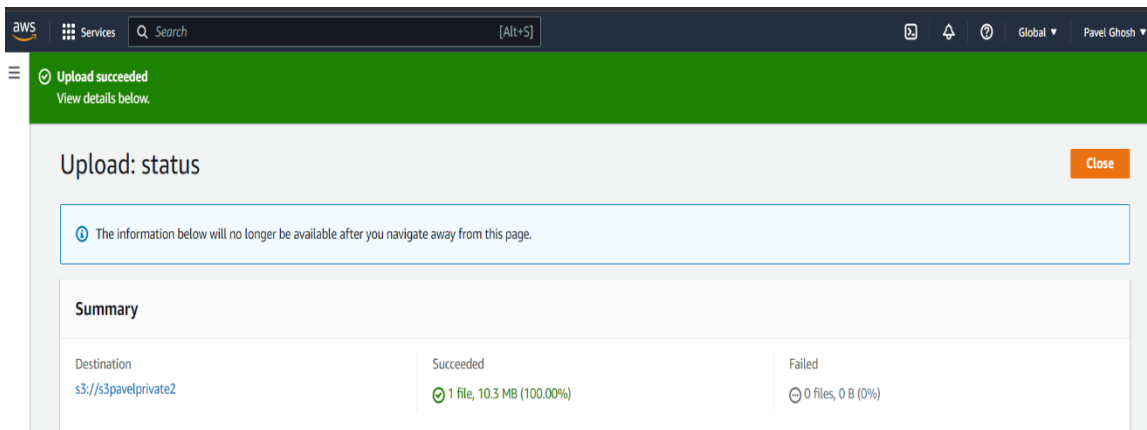
Drag and drop files and folders you want to upload here, or choose **Add files**, or **Add folders**.

Files and folders (0) [Remove](#) [Add files](#) [Add folder](#)

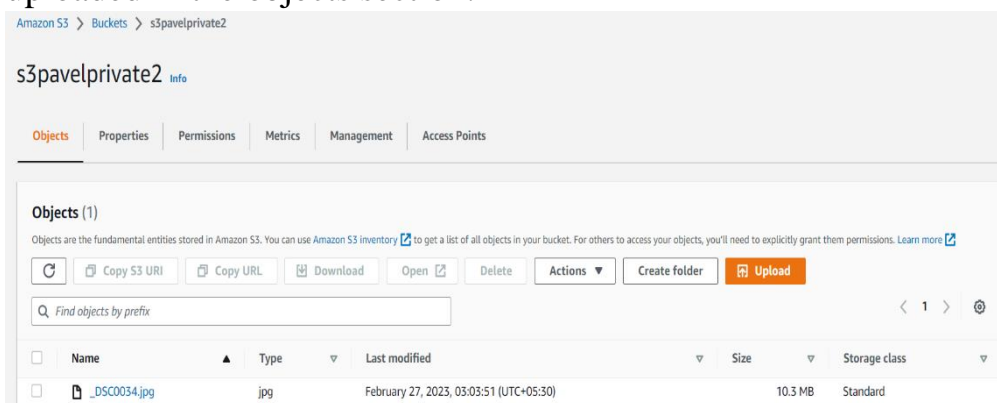
All files and folders in this table will be uploaded.

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

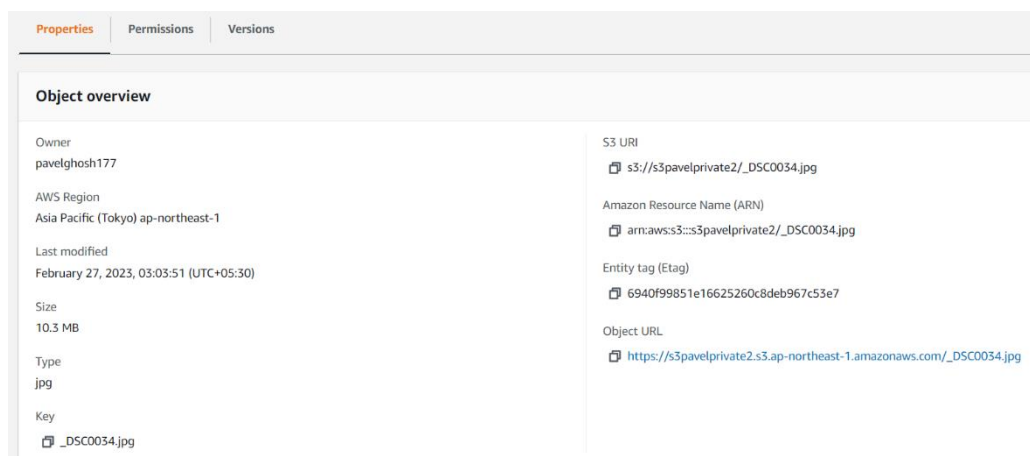
10. You will open a pop up to browse from your pc to upload a file. After selection click on upload button.



11. You will then be redirected to the upload status page where a status bar will be present showing the progress of your upload.
12. Close your status page. Now in the bucket page you will see the file you have uploaded in the objects section.



13. Now click on the file.
14. Scroll down and copy the Object URL.

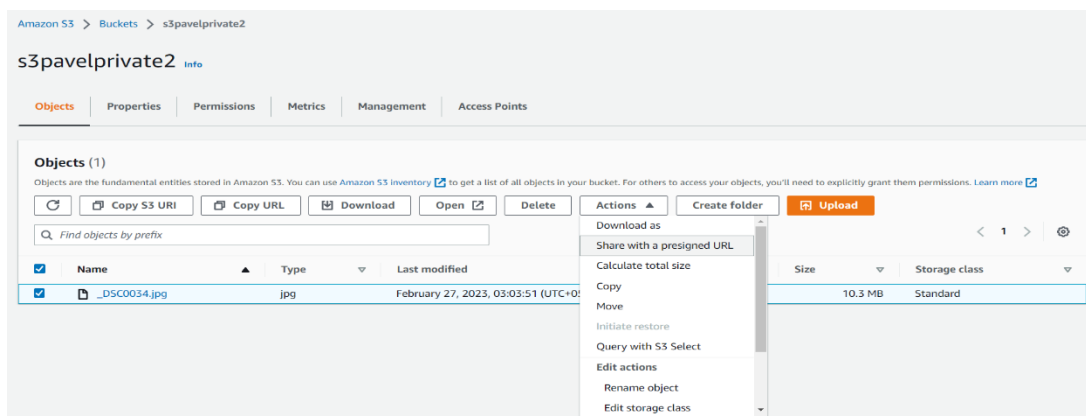


16. IT WILL SHOW ERROR.

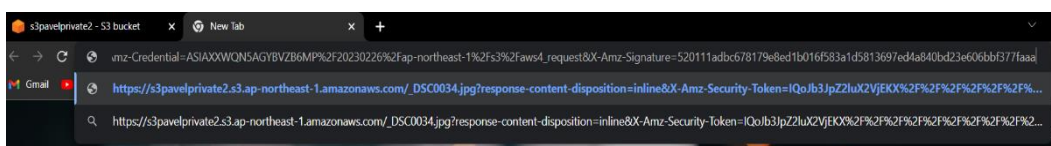
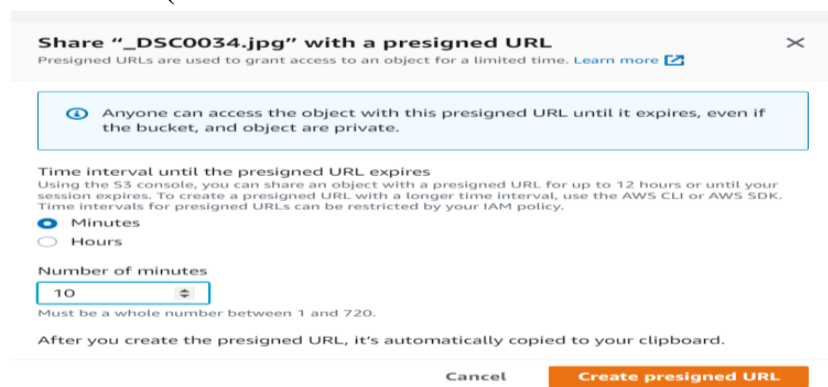
17.NOW WE WILL GENERATE A PRESIGNED URL

19.Next click on the Actions button as shown above.

20. Select the “Share with presigned URL” option.



Note that after creation the URL link automatically gets copied (in your clipboard). So you do not have to manually copy it. Just right click and paste it in another browser(Or use Ctrl+V shortcut in the browser search box)



22. After pasting the link in the bar, press Enter key. Now we can access our file using the presigned URL.