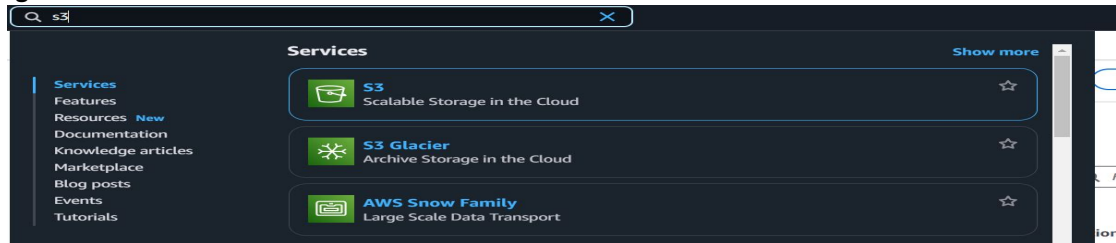


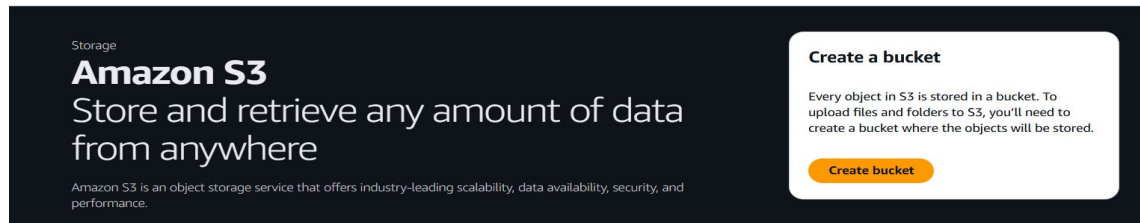
Assignment :- 4

Title :- Create a private bucket in AWS and upload a file and check by reassigned URL whether you can access the file or not.

Step 1:- Log in to AWS Console → Go to Amazon S3.



Step 2:- Click "Create bucket".



Step 3:- **Bucket Name:** Choose a unique name (e.g. pkbucket, my-private-bucket-123).

Create bucket Info

Buckets are containers for data stored in S3.

General configuration

AWS Region

Europe (Stockholm) eu-north-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

pkbucket

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

Step 4:- **Region:** Select the AWS region where you want to create the bucket. And keep bucket versioning disable and also set default encryption.

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](#).

Step 5:- Keep bucket key enable. Click "Create 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

► Advanced settings

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

[Cancel](#)

[Create bucket](#)

Step 6:- Open newly created bucket.

✔ Successfully created bucket "pkmckviebucket"
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 | Directory buckets

General purpose buckets (1) Info All AWS Regions

Buckets are containers for data stored in S3.

Name

AWS Region

IAM Access Analyzer

Creation date

pkmckviebucket

Europe (Stockholm) eu-north-1

[View analyzer for eu-north-1](#)

January 31, 2025, 20:58:07 (UTC+05:30)

Step 7:- Click Upload and select a file.

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](#)

Name

Type

Last modified

Size

Storage class

No objects
You don't have any objects in this bucket.

Upload

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.

Step 8:- After adding files click 'Upload'.

Files and folders (1 total, 1.2 KB)

Remove

Add files

Add folder

All files and folders in this table will be uploaded.

Name

Folder

Type

Size

☐

1B_matrix.R

-

-

1.2 KB

Destination Info

Destination

[s3://pkmckviebucket](#)

▶ 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

Step 9:- File uploaded successfully. Click 'Close'.

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

Upload: status

Close

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

Summary

Destination

[s3://pkmckviebucket](#)

Succeeded

✔ 1 file, 1.2 KB (100.00%)

Failed

⊖ 0 files, 0 B (0%)

Step 10:- Under the Object Overview, copy the Object URL (e.g., https://my-public-bucket-test.s3.amazonaws.com/myfile.txt).

Purna Kundu/CSE-DS/22/047

Objects (1)

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

<input checked="" type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input checked="" type="checkbox"/>	1B_matrix.R	R	January 31, 2025, 21:01:45 (UTC+05:30)	1.2 KB	Standard

Step 11:- Open the URL in a browser incognito mode and the file is not opening for permission.

pkmkviebucket.s3.eu-north-1.amazonaws.com/1B_matrix.R

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

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Error>
  <Code>AccessDenied</Code>
  <Message>Access Denied</Message>
  <RequestId>6F3W618PKVH989MZ</RequestId>
  <HostId>CYh7ArP9q8jvcR9J3bCrFATrtK1b/ICievs2JMR5cbsp5BymaIKP8iu7ghRNS6vOpmRUfz+8LvTcjDBM/frp1zUX4Q00</HostId>
</Error>
```

Assignment :- 5

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

Step 1:- Log in to AWS Console → Go to Amazon S3.

Services

- S3** Scalable Storage in the Cloud
- S3 Glacier** Archive Storage in the Cloud
- AWS Snow Family** Large Scale Data Transport

Step 2:- Click "Create bucket".

Storage

Amazon S3

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.

Create a bucket

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.

Create bucket

Step 3:- Bucket Name: Choose a unique name (e.g. mymckviebucket047, my-private-bucket-123).

General configuration

AWS Region
Europe (Stockholm) eu-north-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](#)

mymckviebucket47

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

Step 4:- Uncheck "Block all public access" under "Block Public Access settings for this bucket". Then confirm the warning and proceed. **Disable** "Bucket Versioning".

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 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

Step 5:- Set "Default encryption" and "Enable" the "Bucket key". Click 'Create 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

Advanced settings

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

Cancel

Create bucket

Step 6:- Open the created bucket.

Successfully created bucket "mymckviebucket47"

To upload files and folders, or to configure additional bucket settings, choose [View details](#).

[View details](#)



Account snapshot - updated every 24 hours

All AWS Regions

[View Storage Lens dashboard](#)

Storage lens provides visibility into storage usage and activity trends. Metrics don't include directory buckets. [Learn more](#)

General purpose buckets

Directory buckets

General purpose buckets (1) [Info](#)

All AWS Regions

Buckets are containers for data stored in S3.

Find buckets by name

< 1 > ⚙

Name	AWS Region	IAM Access Analyzer	Creation date
<input type="radio"/> mymckviebucket47	Europe (Stockholm) eu-north-1	View analyzer for eu-north-1	January 31, 2025, 21:31:51 (UTC+05:30)

Step 7:- click on Upload → Add files.

mymckviebucket47 [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](#)

Find objects by prefix

< 1 > ⚙

Name	Type	Last modified	Size	Storage class
------	------	---------------	------	---------------

No objects

You don't have any objects in this bucket.

[Upload](#)

Step 8:- . Then select the file to 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 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 (0)

All files and folders in this table will be uploaded.

<input type="checkbox"/>	Name	Folder	Type	Size
--------------------------	------	--------	------	------

[Remove](#) [Add files](#) [Add folder](#)

Step 9:- Click Upload.

Files and folders (1 total, 434.2 KB)

All files and folders in this table will be uploaded.

<input type="checkbox"/>	Name	Folder	Type	Size
<input type="checkbox"/>	Purna Kundu.pdf	-	application/pdf	434.2 KB

[Remove](#) [Add files](#) [Add folder](#)

Destination [Info](#)

Destination

[s3://mymckviebucket47](#)

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](#)

Upload succeeded

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

Upload: status

[Close](#)

Step 10:- After the file is uploaded, click on the file name.

[mymckviebucket47](#) [Info](#)

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

Object URL Copied

Objects (1)

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](#)

<input checked="" type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input checked="" type="checkbox"/>	Purna Kundu.pdf	pdf	January 31, 2025, 21:34:07 (UTC+05:30)	434.2 KB	Standard

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

Step 11:- Navigate to the Permissions tab.

[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: efeca1f3737c7a9b6733867e7aee2759b9de0a9f2a1adac6c4a7b34de57db50	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	-	-

Step 12:- Click Edit under "Object Ownership". Then Change the setting to "ACLs enabled". Then Under Access control list (ACL), grant "Public Read" access. And Click Save changes.

Edit access control list Info

Access control list (ACL)

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

Grantee

Object owner (your AWS account)

Canonical ID:
effca1f37373c7a9b6733867e7aee2759b9de0a9f2a1adac6c4a7b34de57db50

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

Objects

☒ Read

☒ Read

☐ Read

Object ACL

☒ Read

☒ Write

☒ Read

☐ Write

☐ 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.

Step 13:- Copy the **Object URL**. And Open the URL in a browser (incognito mode) to verify if it's accessible.

Successfully edited access control list for object "Purna Kundu.pdf".

Purna Kundu.pdf

Info

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

Properties | **Permissions** | **Versions**

Object overview

Owner
effca1f37373c7a9b6733867e7aee2759b9de0a9f2a1adac6c4a7b34de57db50

AWS Region
Europe (Stockholm) eu-north-1

Last modified
January 31, 2025, 21:34:07 (UTC+05:30)

Size
434.2 KB

S3 URI
s3://mymckviebucket47/Purna Kundu.pdf

Amazon Resource Name (ARN)
arn:aws:s3::mymckviebucket47/Purna Kundu.pdf

Entity tag (Etag)
96f642983214432887060a3

Object URL Copied
<https://mymckviebucket47.s3.eu-north-1.amazonaws.com/Purna+Kundu.pdf>

Step 14:- Delete the objects.

Specified objects

Name	Type	Last modified	Size
PK_IAM_credentials.csv	csv	January 31, 2025, 21:15:18 (UTC+05:30)	112.0 B

Permanently delete objects?

To confirm deletion, type *permanently delete* in the text input field.

[Cancel](#)[Delete objects](#)

Successfully deleted objects
View details below.

Delete objects: status

Step 15:- Delete the bucket.

General purpose buckets (1)

Info

[Copy ARN](#)[Empty](#)[Delete](#)[Create bucket](#)

Buckets are containers for data stored in S3.

Name	AWS Region	IAM Access Analyzer	Creation date
pkmckviebucket	Europe (Stockholm) eu-north-1	View analyzer for eu-north-1	January 31, 2025, 20:58:07 (UTC+05:30)

Delete bucket "pkmckviebucket"?

To confirm deletion, enter the name of the bucket in the text input field.

[Cancel](#)[Delete bucket](#)

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