

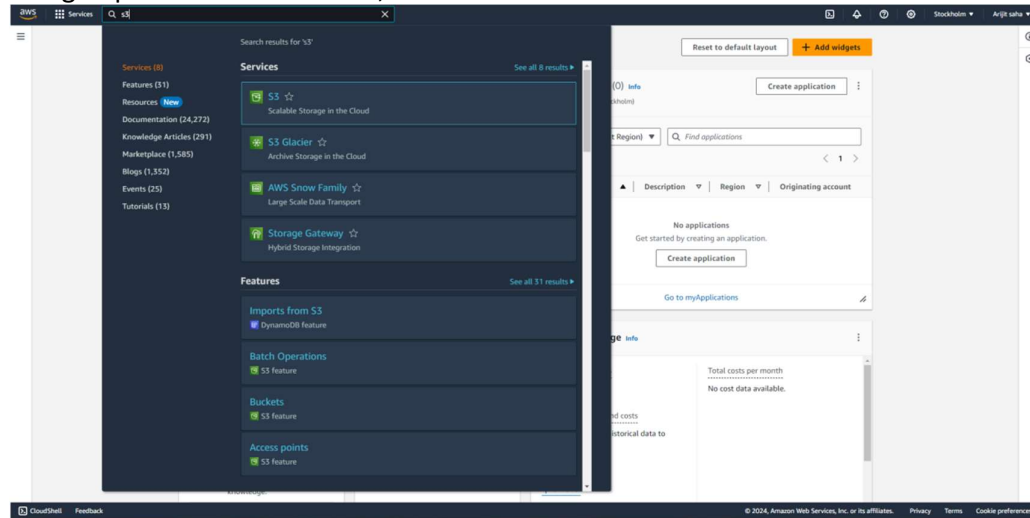
Assignment: 4

Problem statement:

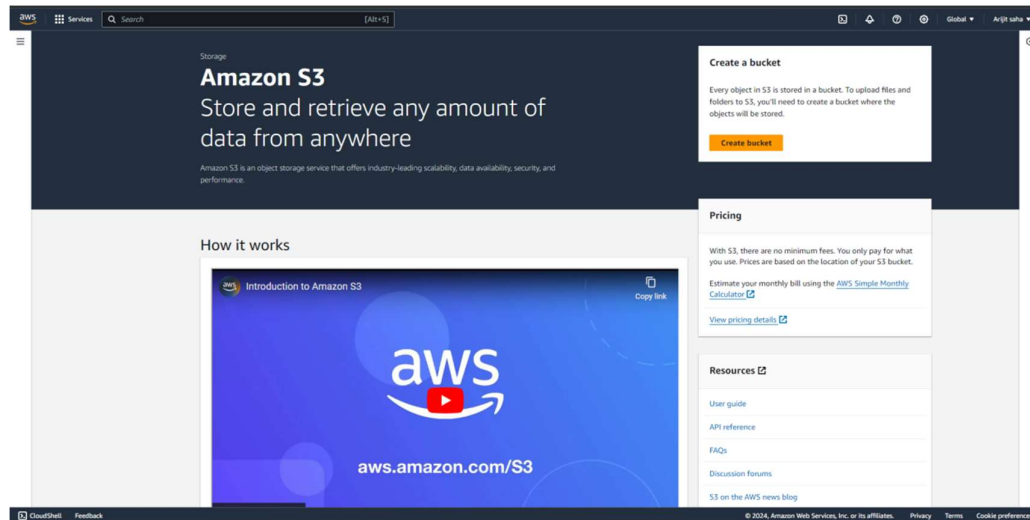
Create a private bucket in AWS. Upload a file and check by reassigned URL whether you can access the file or not.

Bucket creation and checking for access-

1. Sign up for an AWS account, search for 'S3' then click on it.



2. Click on 'Create bucket'.



3. Fill up the required details->'AWS region', 'Bucket name' then we have to do 'ALC disabled' because we are creating a private bucket and check the other configuration as per the snapshots then click on 'Create bucket'.

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 - New**
 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](#)

mainak-private-bucket

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

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

► **Advanced settings**

① After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

[Cancel](#) [Create bucket](#)

4.The bucket is created successfully, click on name->'mainak-private-bucket'.

5.Under 'mainak-private-bucket', click on 'Upload' then choose a file of your choice .

Amazon S3 > Buckets

▼ **Account snapshot** [View Storage Lens dashboard](#)
 Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

Total storage ⌚ Pending	Object count ⌚ Pending	Average object size ⌚ Pending	You can enable advanced metrics in the "default-account-dashboard" configuration.
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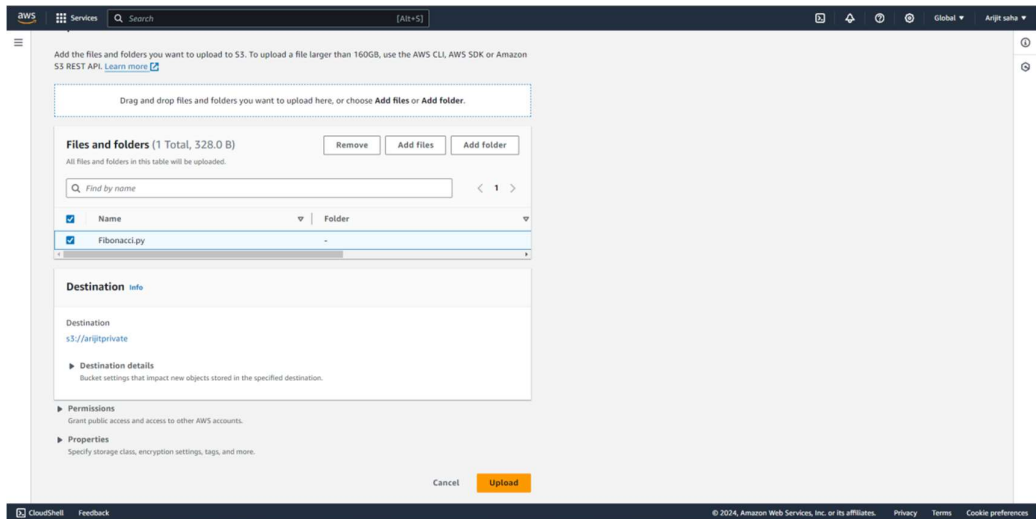
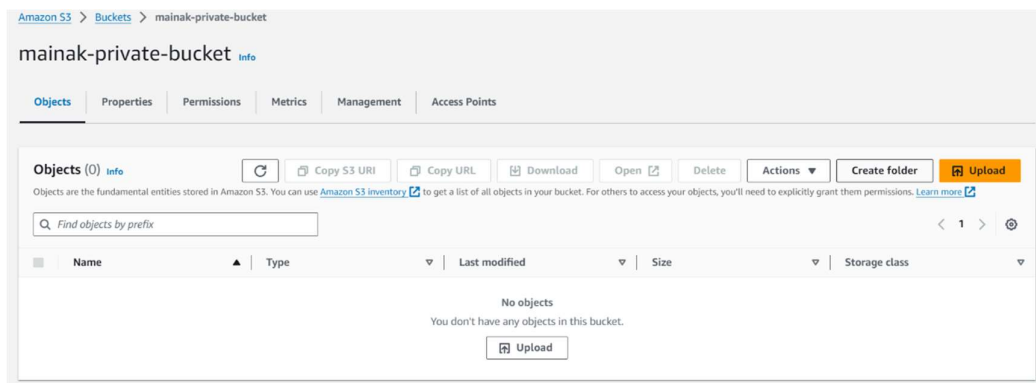
General purpose buckets | Directory buckets

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

Buckets are containers for data stored in S3.

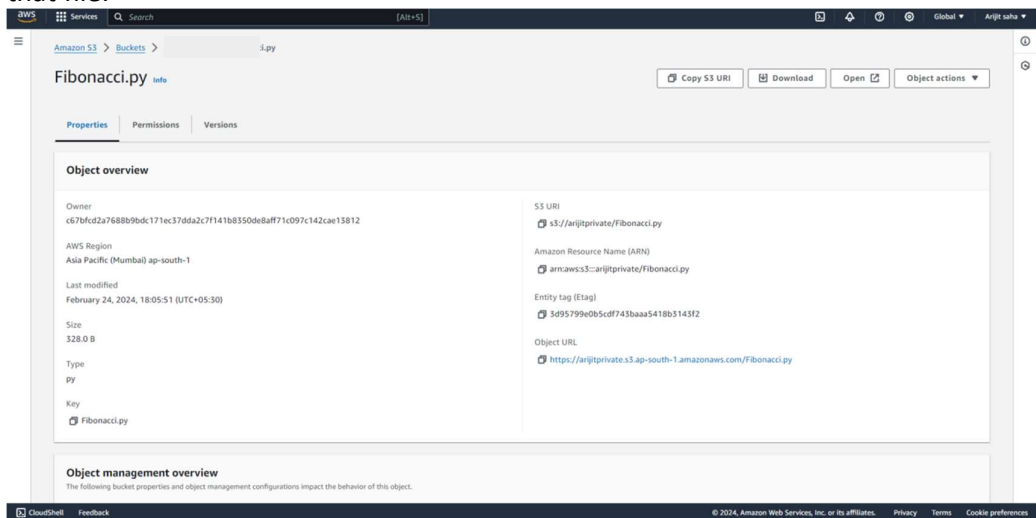
Name	AWS Region	Access	Creation date
<input type="radio"/> mainak-private-bucket	US East (N. Virginia) us-east-1	Bucket and objects not public	March 12, 2024, 21:34:59 (UTC+05:30)

6. Click on 'Add files' then tick off the 'Name' of the file and click on 'Upload'.



7. File is uploaded successfully, tap on 'Close' and click on 'Name'.

8. Under 'mainak-private-bucket', tick off any one of the files(checkbox) and click on that file.



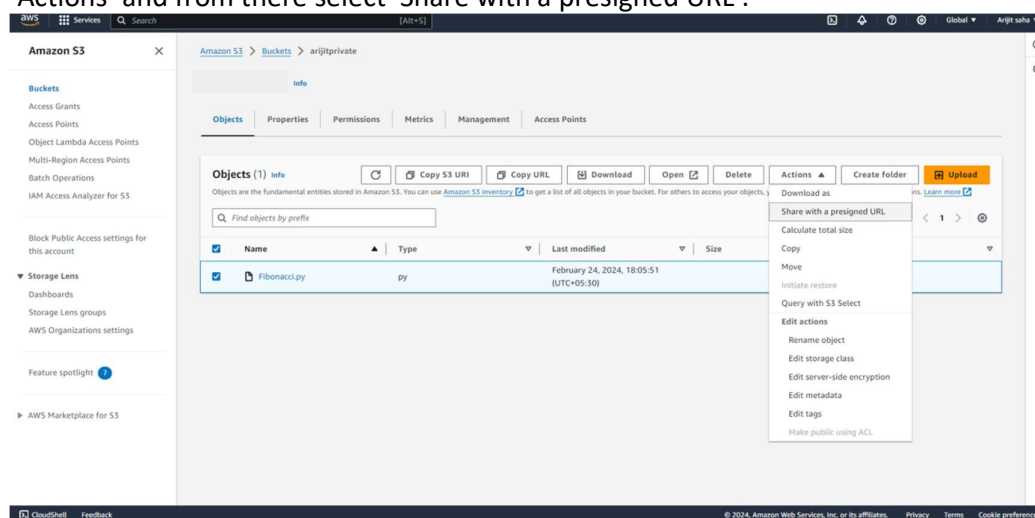
9. Copy the 'Object URL'.

10. Now open the 'Incognito mode' and paste the 'Object URL'. We will see that the file cannot be accessed as it was a private bucket.

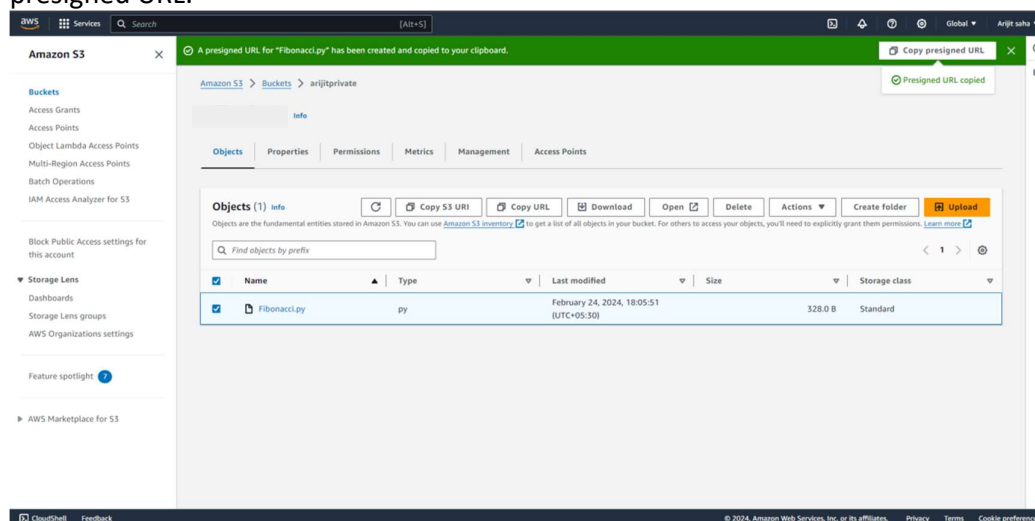
```
This XML file does not appear to have any style information associated with it. The document tree is shown below.
<?xml version="1.0" encoding="UTF-8" ?>
<Error>
  <Code>AccessDenied</Code>
  <Message>Access Denied</Message>
  <RequestId>Q78AV9BMAVMPMA1</RequestId>
  <HostId>HCJqefvImys/11k3erc1a1TGdpgovMH3roum9rKRKp0Sut+H1CvTbIZ8sfml30/jsubRAk1frhozmfg0==</HostId>
</Error>
```

To give access to the file, follow the steps given below.

11. Go back to AWS account, select the bucket(mainak-private-bucket) then go to 'Actions' and from there select 'Share with a presigned URL'.



12. Now according to our choice select either 'Minutes' or 'Hours' then give the number and click on 'Create presigned URL' so that the file can be accessed via presigned URL.



13. A presigned URL is created then copy the URL and paste it on 'Incognito mode'.

14. Now paste the presigned URL in the 'Incognito mode' then we can notice that the file can be accessed for 10 minutes.

```
n = eval(input("enter the range "))
# def fibo(x):
#     if (x == 0):
#         return 0
#     if (x == 1):
#         return 1
#     else:
#         return fibo(x-2)+fibo(x-1)
# for i in range(n+1):
#     print(fibo(i), end=" ")

a=0
b=1
for i in range(n+1):
    print(a,end=' ')
    c=a+b
    a=b
    b=c
```