

# **EXPERIMENT-2**

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**BRANCH:** T.E. INFORMATION TECHNOLOGY (SEM 5)

## **1. What is S3 ? Explain Uses of S3.**

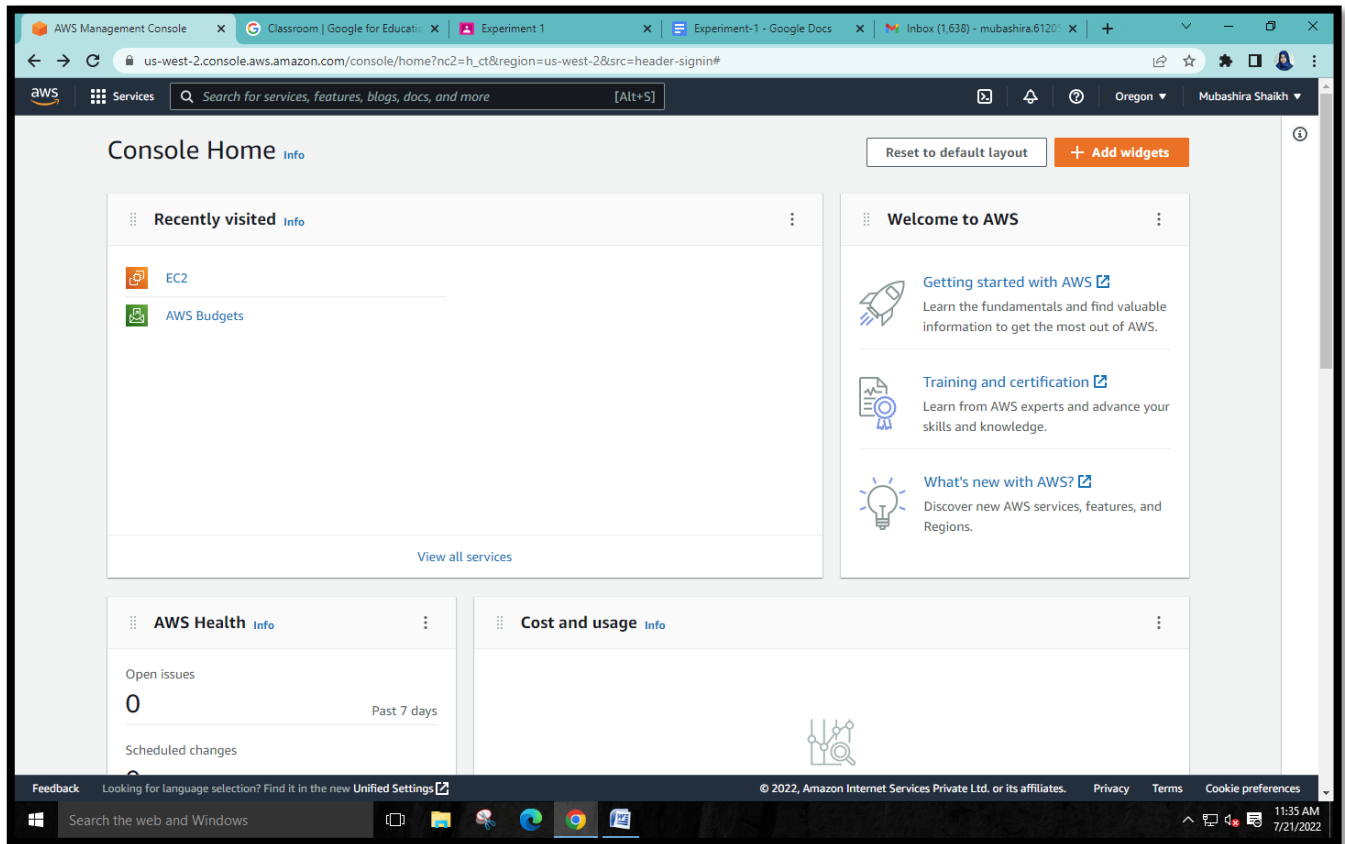
➔ Amazon S3 is an object storage service that stores data as objects within buckets. An *object* is a file and any metadata that describes the file. A *bucket* is a container for objects. Amazon Simple Storage Service (Amazon S3) is a scalable, high-speed, webbased cloud storage service. The service is designed for online backup and archiving of data and applications on Amazon Web Services (AWS). Amazon S3 was designed with a minimal feature set and created to make web-scale computing easier for developers.

Amazon S3 can be used by organizations ranging in size from small businesses to large enterprises. S3's scalability, availability, security and performance capabilities make it suitable for a variety of data storage use cases. Common use cases for S3 include the following:

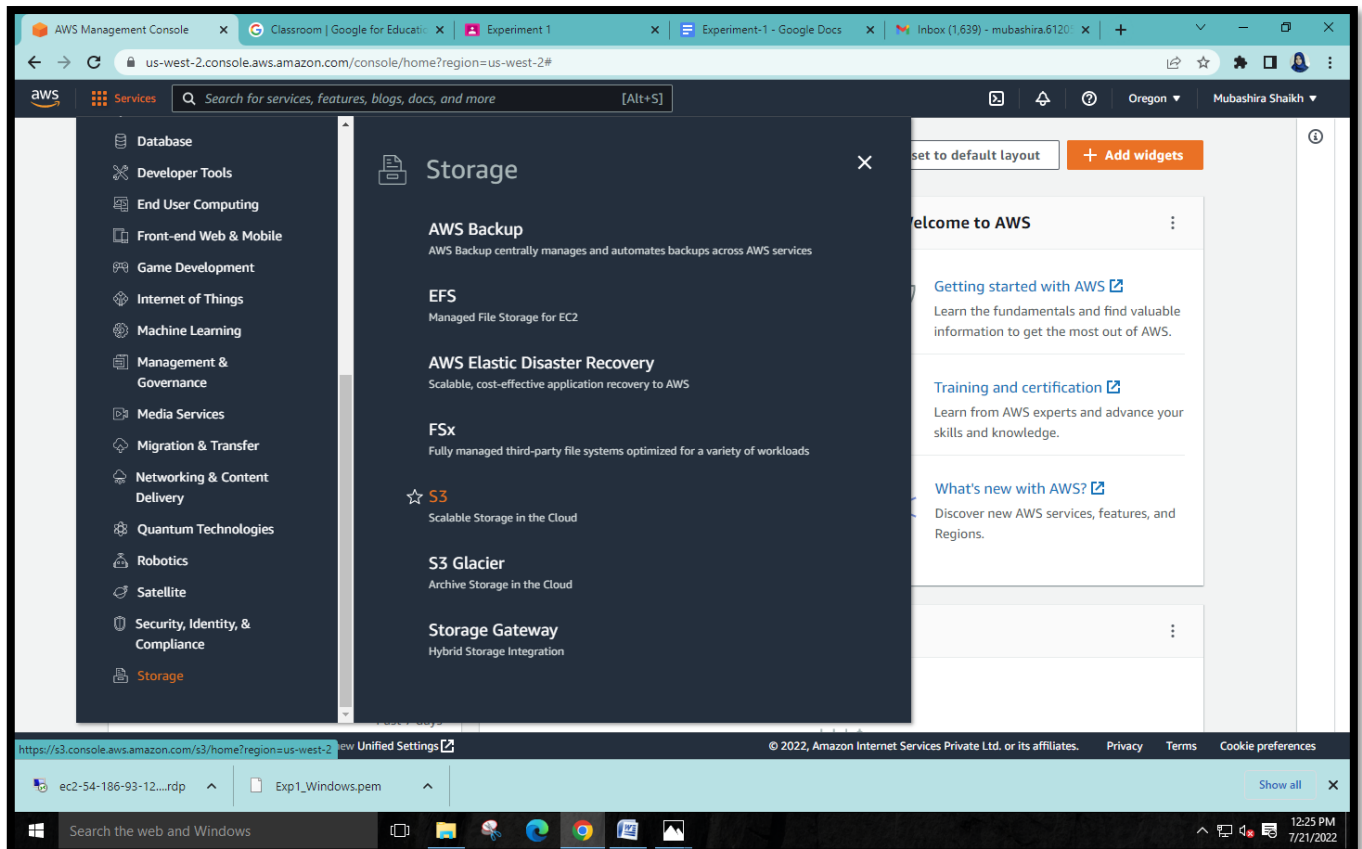
- Data storage;
- Data archiving;
- Application hosting for deployment, installation and management of web apps;
- Software delivery;
- Data backup;
- Disaster recovery (DR);
- Running big data analytics tools on stored data;
- Data lakes;
- Mobile applications;
- Internet of things (IoT) devices;
- Media hosting for images, videos and music files
- Website hosting -- particularly well suited to work with Amazon CloudFront for content delivery.

## 2. Deployment of static web site on AWS S3.

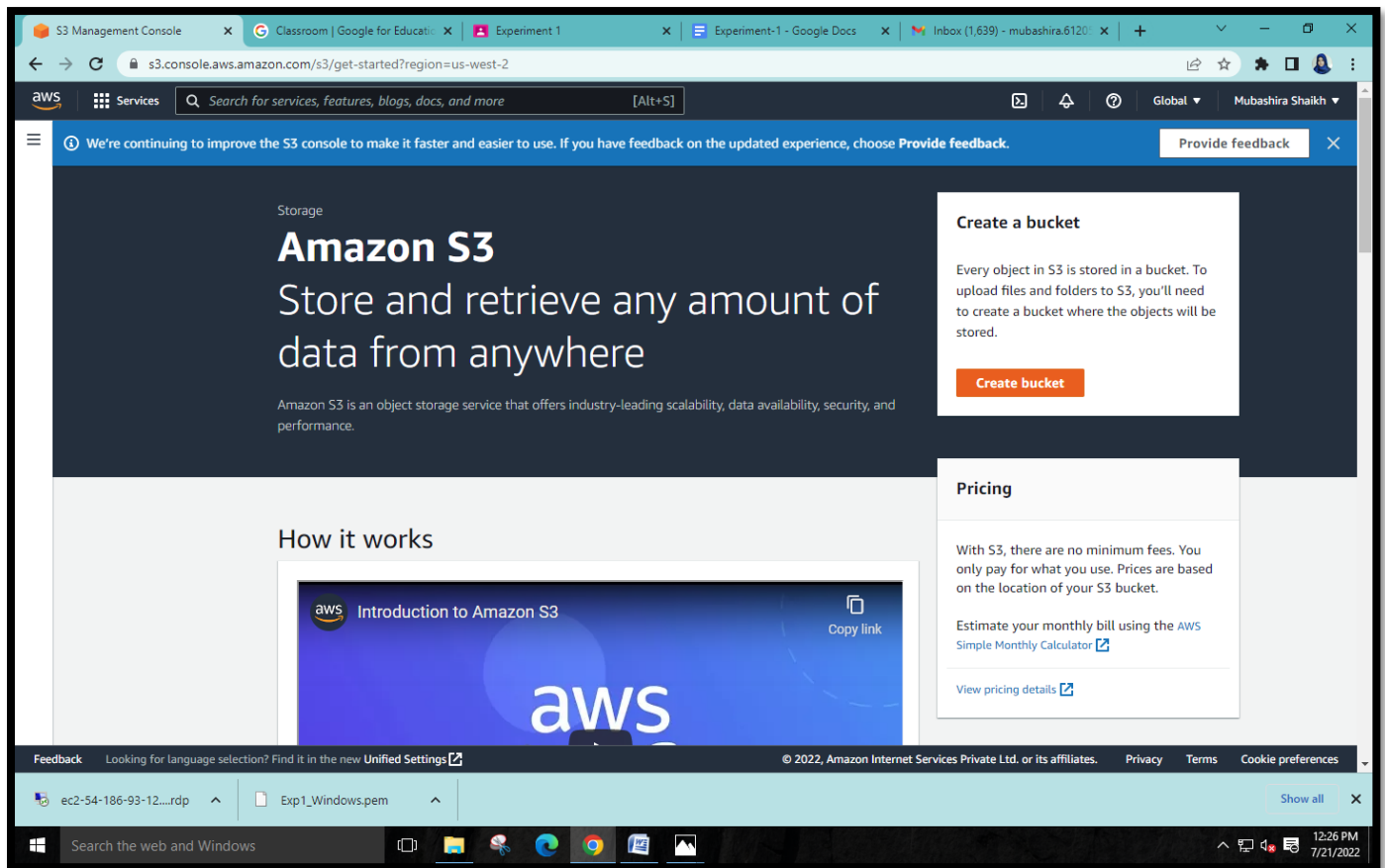
### Step 1: AWS Management Console Dashboard.



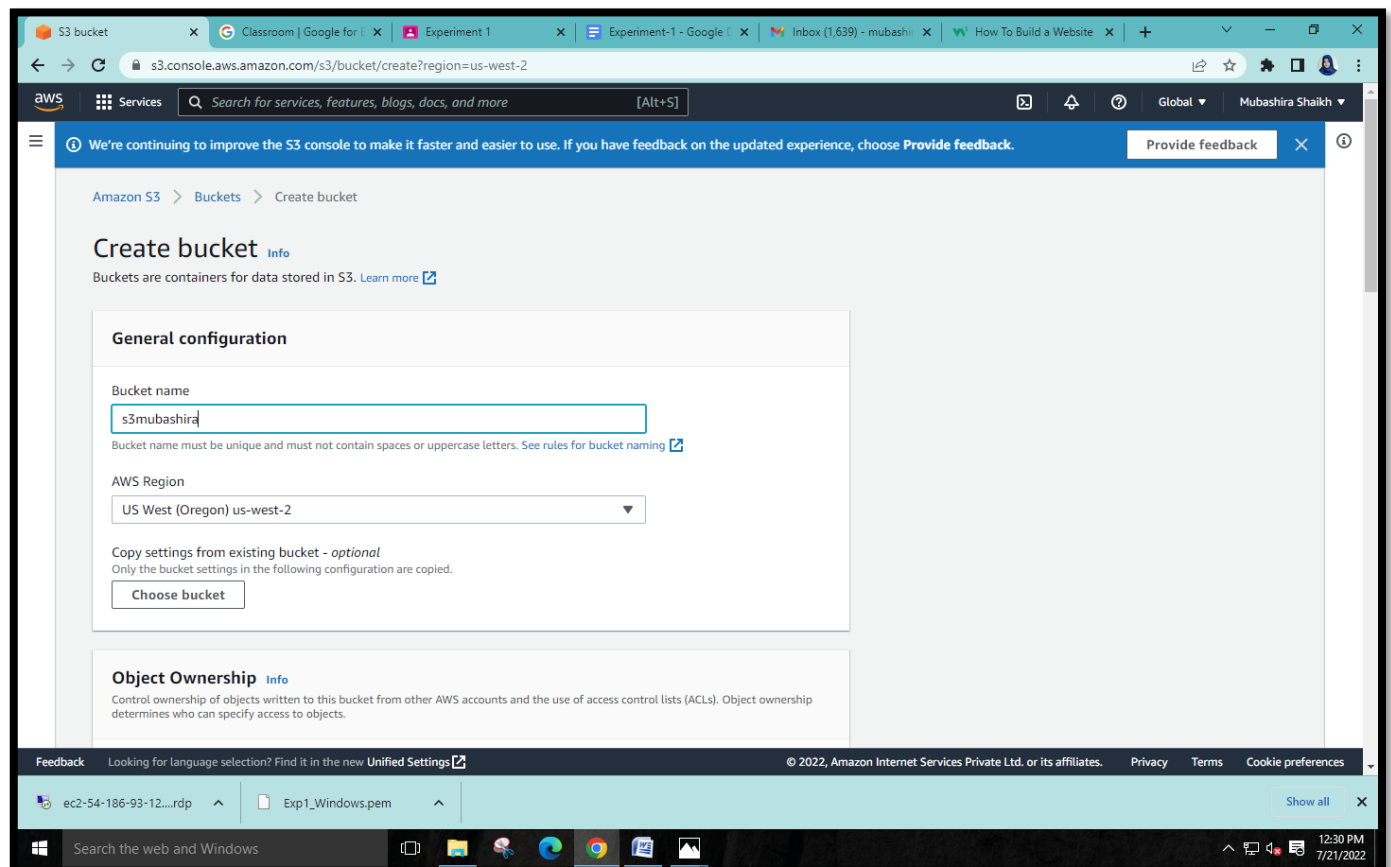
### Step 2: Click on Services → Storage → S3



## Step 3: Click on 'Create bucket'



## Step 4: Give your bucket a name.



## Step 5: Uncheck the 'Block all public access' checkbox.

The screenshot shows the AWS S3 console interface for configuring 'Block Public Access' settings. The page title is 'Block Public Access settings for this bucket'. A blue banner at the top contains a feedback message. The main content area has a heading 'Block all public access' with a subtext explaining that turning this on blocks public access across all settings. Below this, there are four checkboxes, all of which are currently unchecked:

- ☐ **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.

A warning box at the bottom states: '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.'

The bottom of the screenshot shows the Windows taskbar with the time 12:27 PM on 7/21/2022.

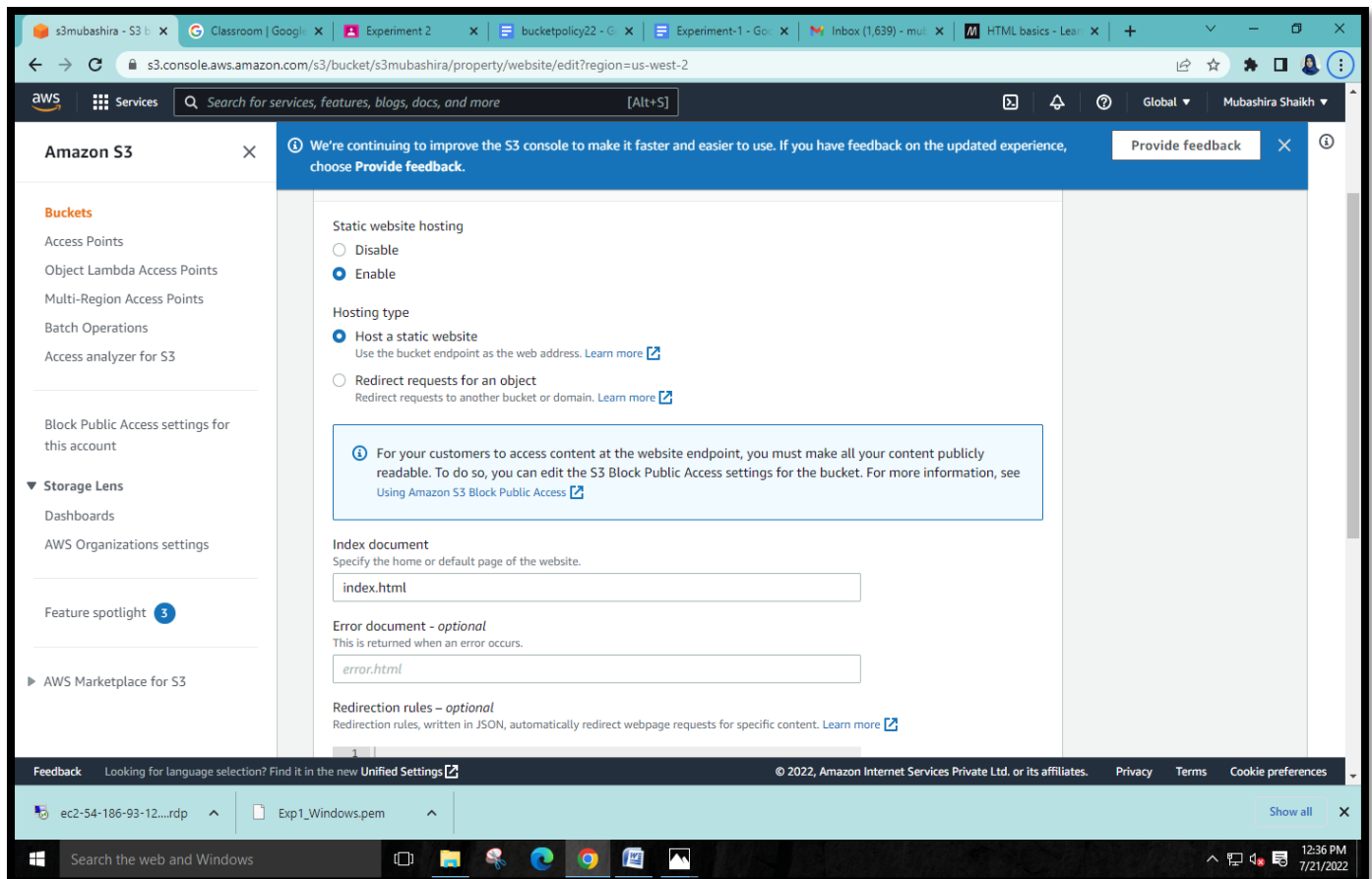
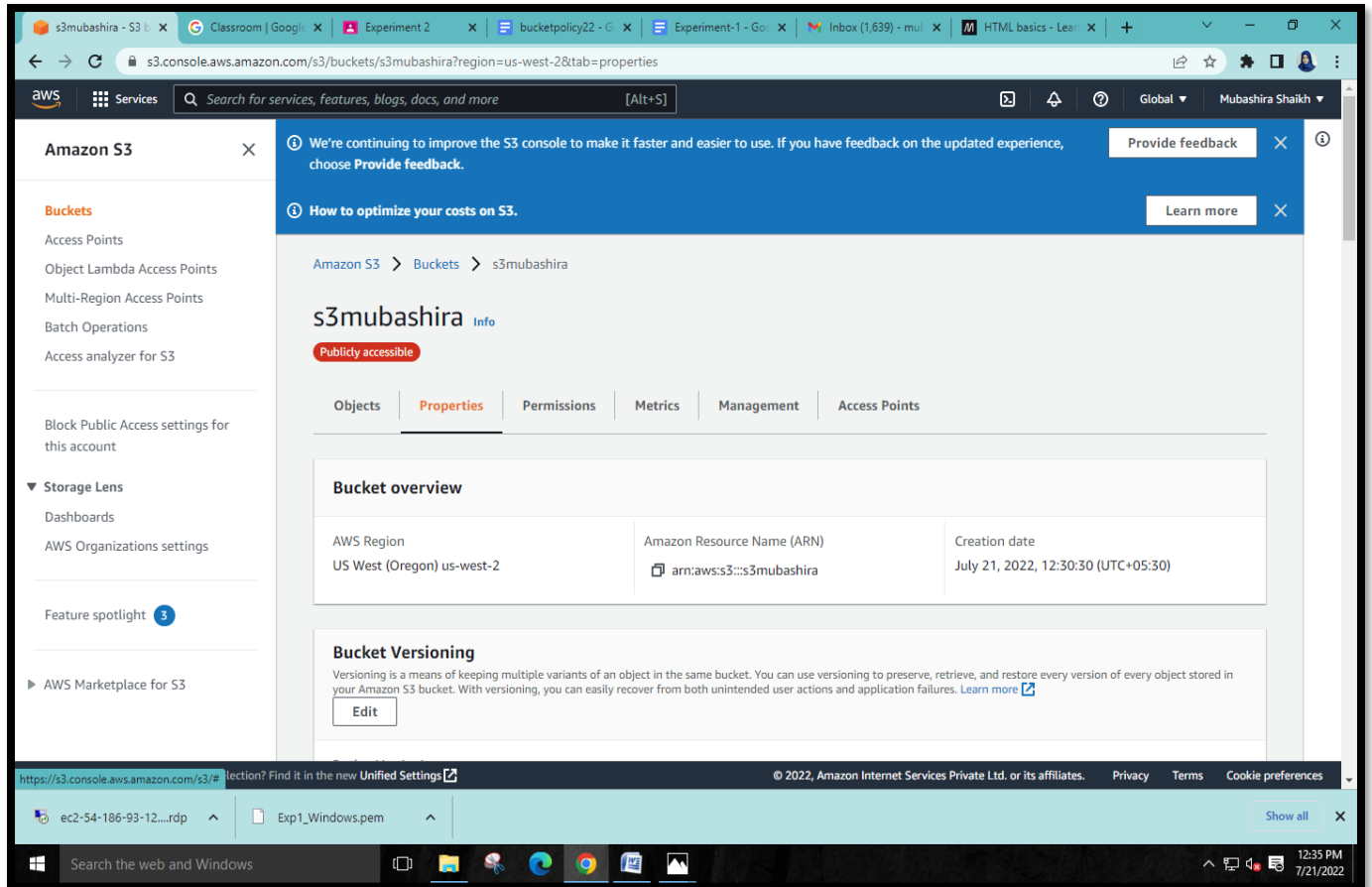
## Step 6: Select the bucket.

The screenshot shows the AWS S3 console 'Buckets' page. A blue banner at the top contains a feedback message. Below it, a green banner indicates 'Successfully created bucket "s3mubashira"'. The main content area shows the 'Buckets (1)' list with the following table:

Name	AWS Region	Access	Creation date
s3mubashira	US West (Oregon) us-west-2	Objects can be public	July 21, 2022, 12:30:30 (UTC+05:30)

The bottom of the screenshot shows the Windows taskbar with the time 12:30 PM on 7/21/2022.

## Step 7: Properties → Edit 'Static Website Hosting' → Select 'Enable Static Website Hosting'.



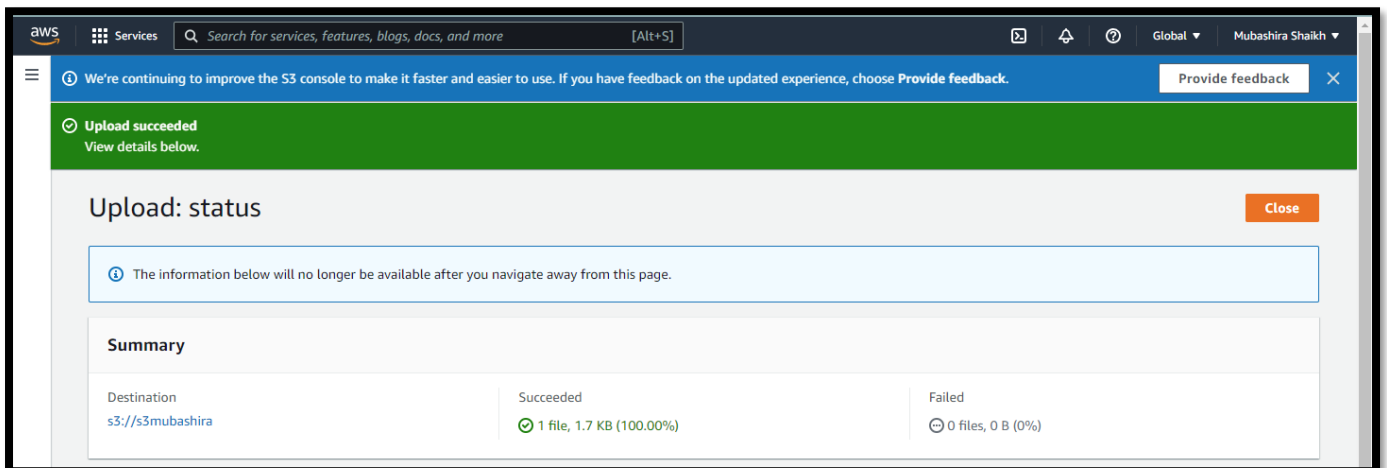
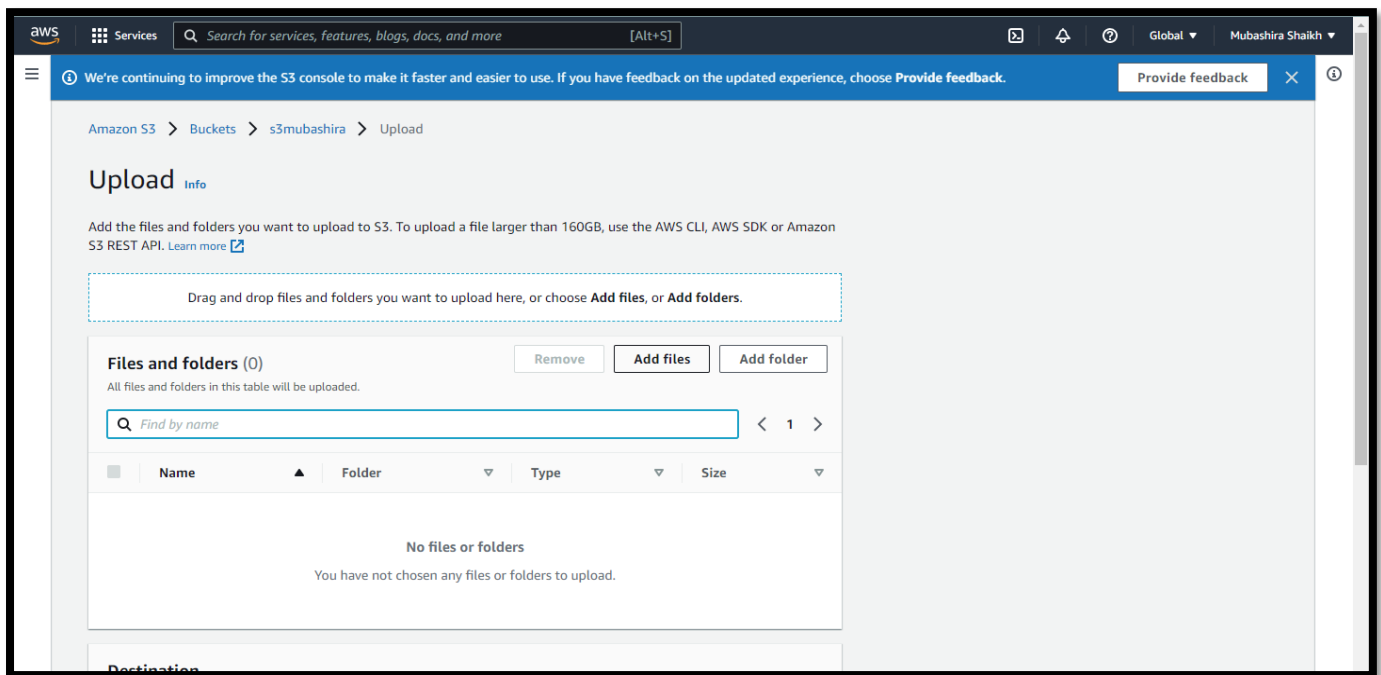
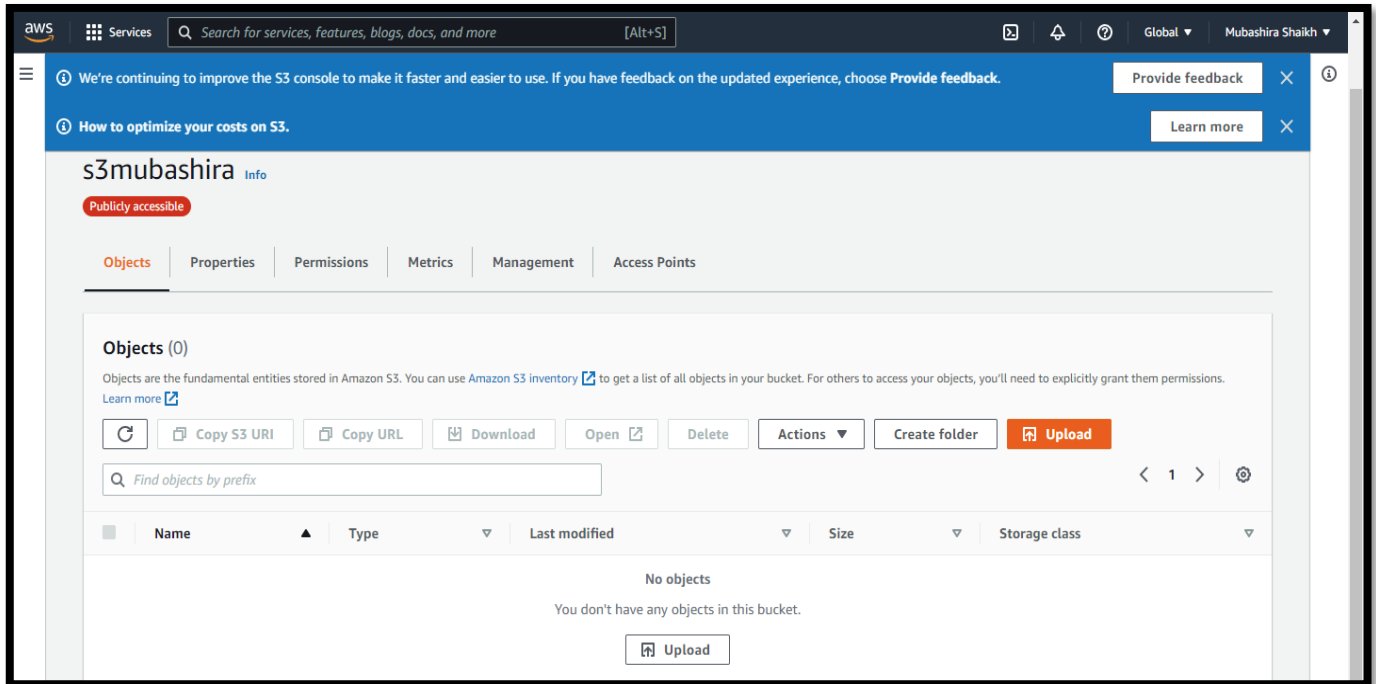
## Step 8: Permissions → Edit the bucket policy section.

The screenshot shows the Amazon S3 console interface. The left sidebar contains navigation links for Buckets, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, Access analyzer for S3, Storage Lens, Dashboards, AWS Organizations settings, Feature spotlight, and AWS Marketplace for S3. The main content area is titled 's3mubashira' and has tabs for Objects, Properties, Permissions (selected), Metrics, Management, and Access Points. The 'Permissions overview' section shows 'Access' and 'Objects can be public'. Below this, the 'Block public access (bucket settings)' section explains that public access is granted through ACLs, bucket policies, access point policies, or all. It recommends turning on 'Block all public access' before applying any settings. An 'Edit' button is visible at the bottom of the section.

The screenshot shows the Amazon S3 console interface with the 'Policy' tab selected. The left sidebar is the same as in the previous screenshot. The main content area shows the 'Policy' section for the bucket 's3mubashira'. The 'Bucket ARN' is 'arn:aws:s3::s3mubashira'. The 'Policy' section displays a JSON policy document. The 'Edit statement' panel on the right shows a 'Select a statement' dialog with the option to 'Add new statement'.

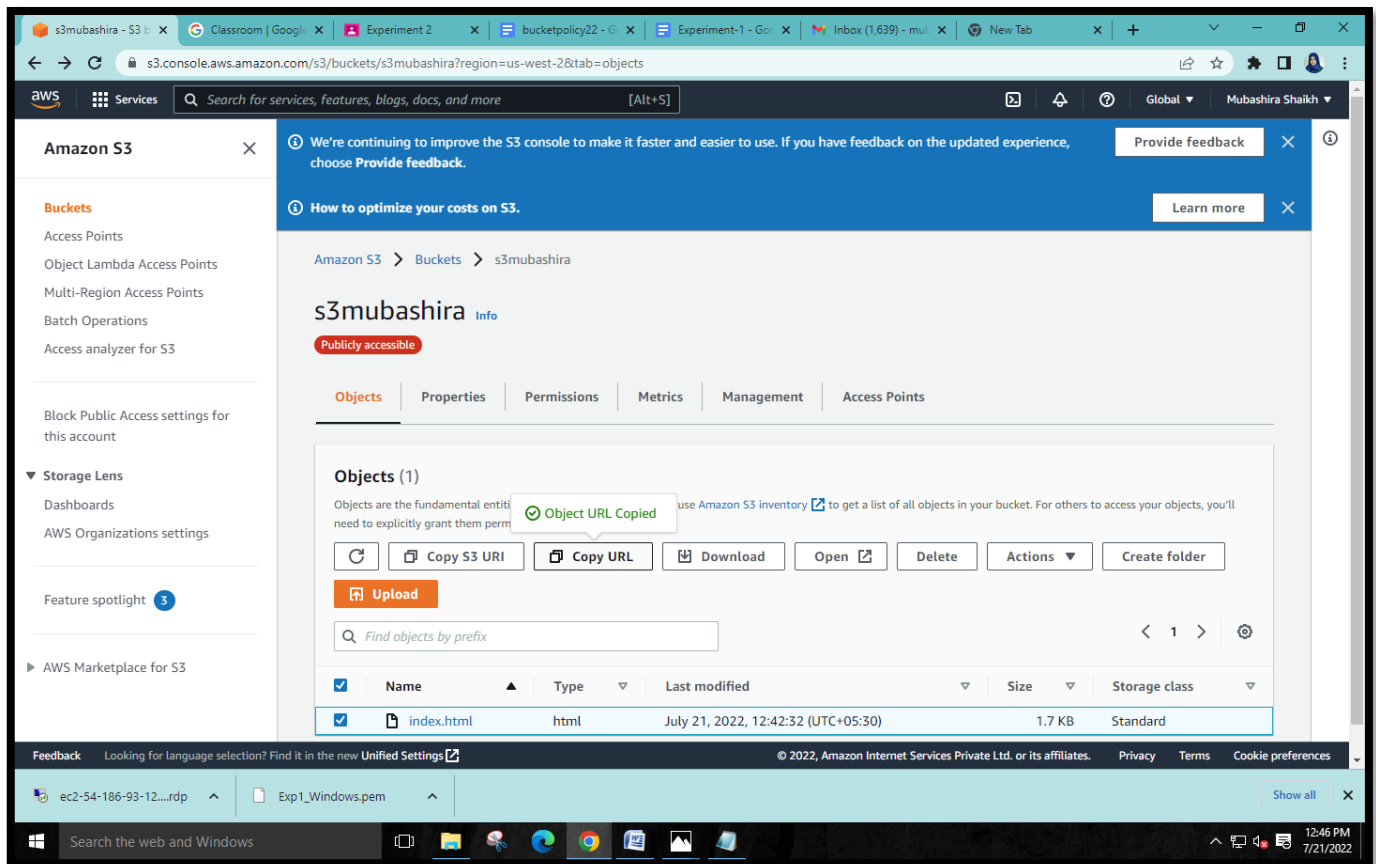
```
1 {
2   "Version": "2008-10-17",
3   "Id": "PolicyForPublicWebsiteContent",
4   "Statement": [
5     {
6       "Sid": "PublicReadGetObject",
7       "Effect": "Allow",
8       "Principal": {
9         "AWS": "*"
10      },
11      "Action": "s3:GetObject",
12      "Resource": "arn:aws:s3:::zainabmirza/*"
13    }
14  ]
15 }
16 }
```

## Step 9: In the objects section attach the html code files.

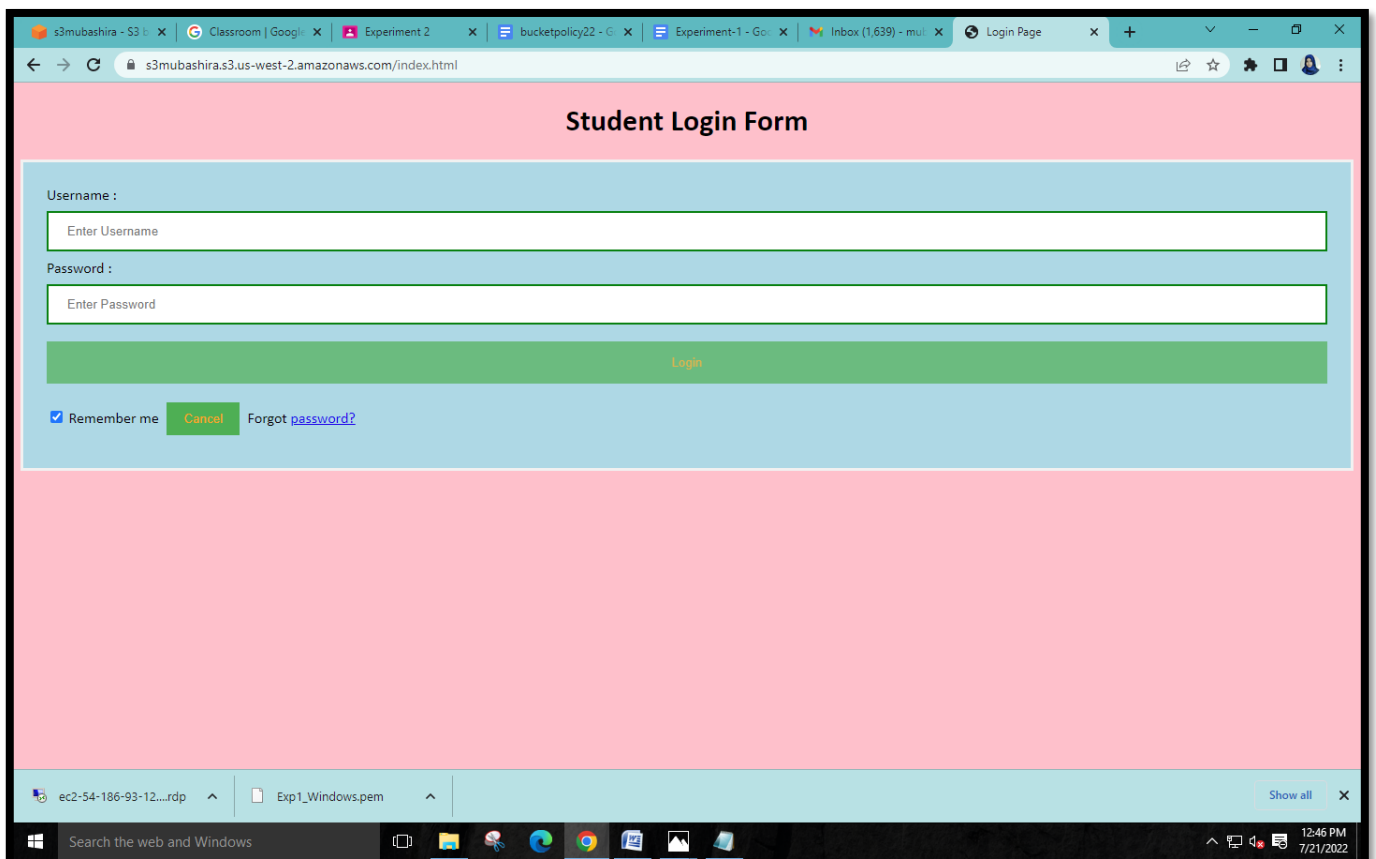




## Step 10: Now select the uploaded html object and copy the URL.

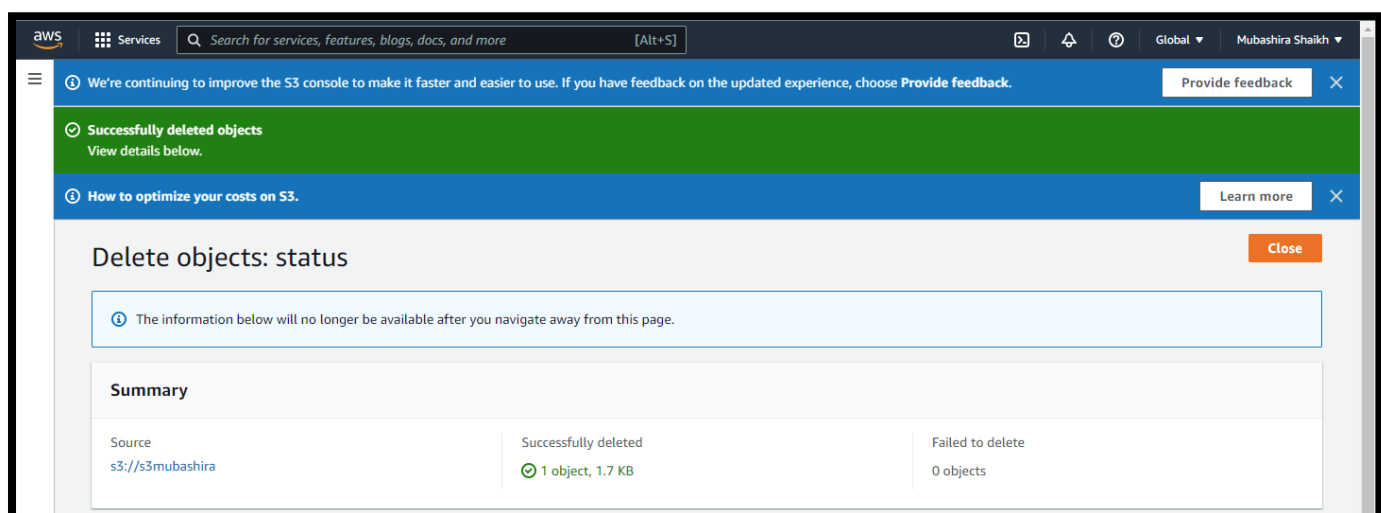
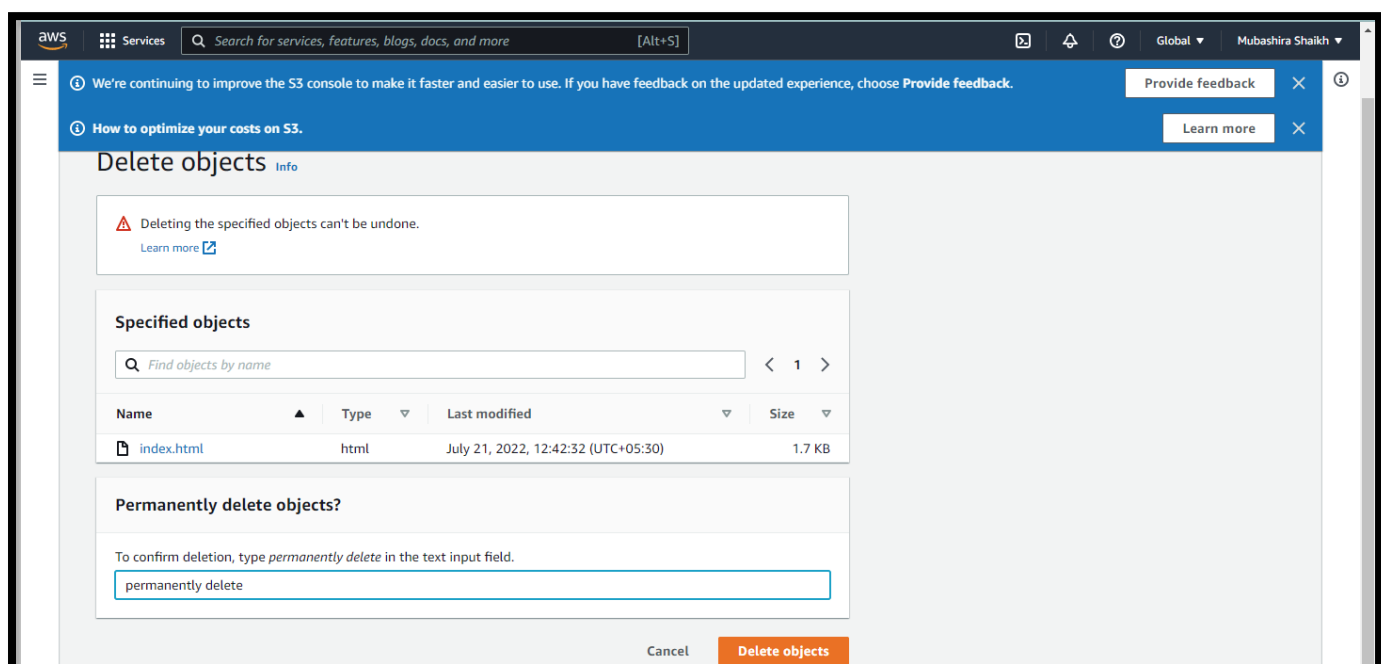
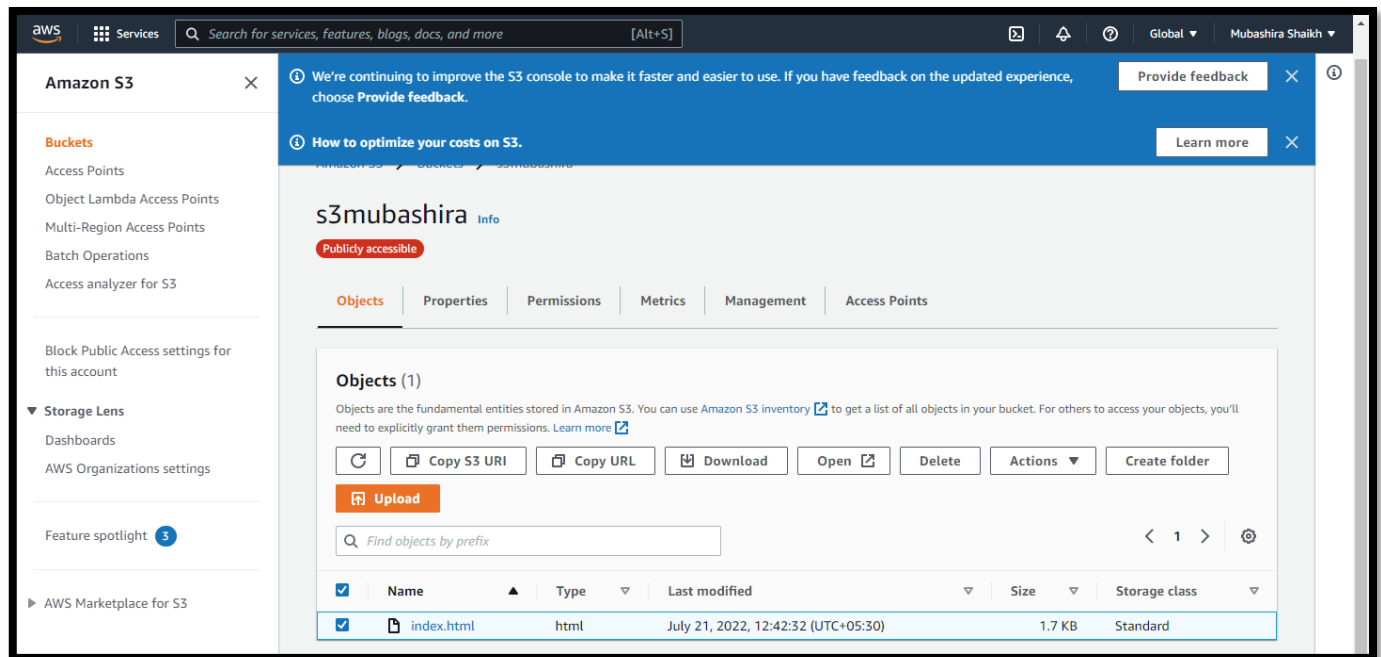


## Step 11: Paste the URL in a web browser and the web page will be displayed.





## Step 12: After closing the web page, go to buckets and delete all objects from the bucket.



## Step 13: Then select the empty bucket and delete it.

Amazon S3

Buckets

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight

We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose [Provide feedback](#).

Successfully deleted objects  
View details below.

How to optimize your costs on S3.  
[Learn more](#)

Amazon S3 > Buckets

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

View Storage Lens dashboard

Buckets (1) Info

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

Find buckets by name

Name	AWS Region	Access	Creation date
s3mubashira	US West (Oregon) us-west-2	Public	July 21, 2022, 12:30:30 (UTC+05:30)

Amazon S3 > Buckets > s3mubashira > Delete bucket

### Delete bucket

Deleting a bucket cannot be undone.

- Bucket names are unique. If you delete a bucket, another AWS user can use the name.
- This bucket is configured to host a static website. We recommend that you clean up the Route 53 hosted zone settings that are related to the bucket.

[Learn more](#)

Delete bucket "s3mubashira"?

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

s3mubashira

Cancel Delete 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

Pricing