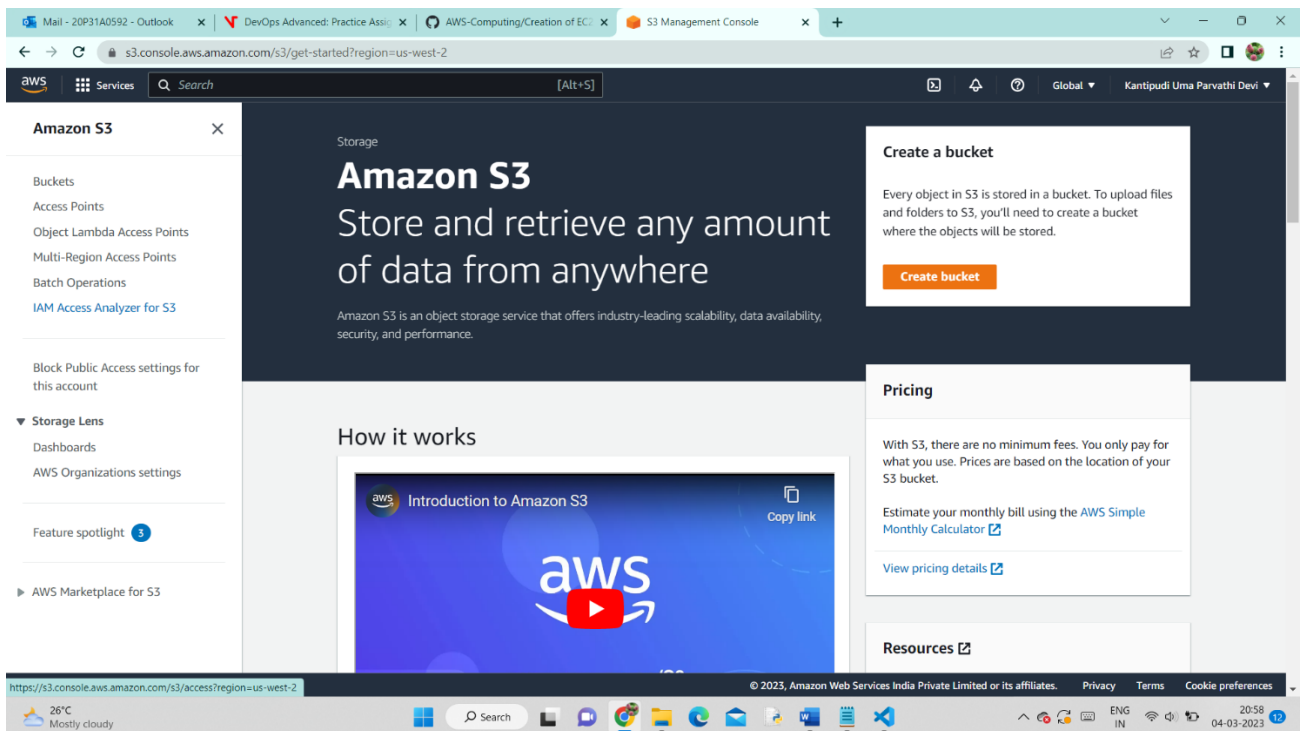


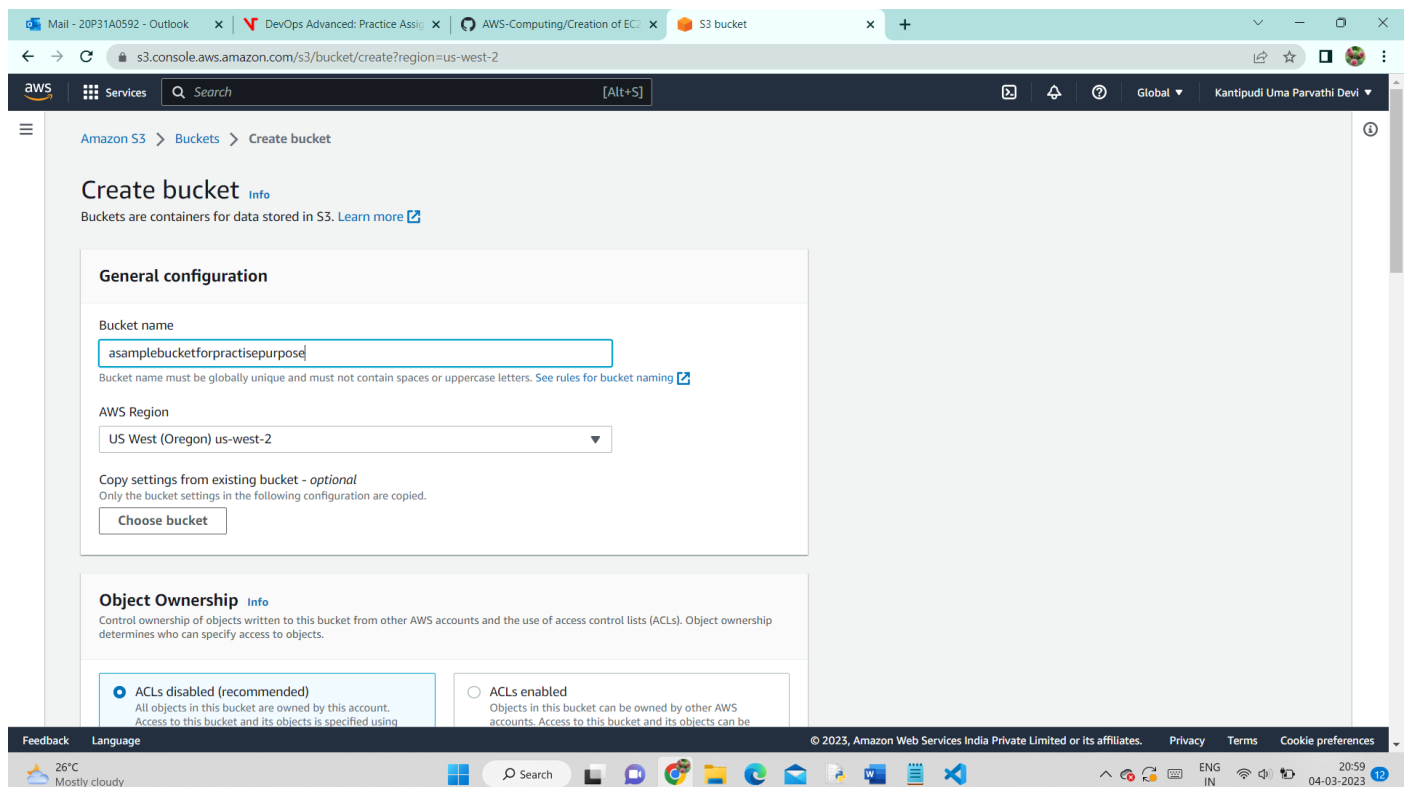
## CREATION OF SAMPLE S3 BUCKET AND FILE UPLOAD

In this activity I am going to create a s3 bucket which is accessible by public and I will upload a sample html file into it.

Step 1: Go to s3 bucket service page in AWS management console.



STEP 2 : Give a unique name to your s3 bucket and select your desired region. Select ACLs disabled under Object Ownership.



STEP 3: Untick “Block all Public access” and then click a tick mark acknowledgement.

**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.

STEP 4 : Enable Versioning if you want to maintain a version of your files.

**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 (0) - optional**

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 key type [Info](#)

☒ Amazon S3 managed keys (SSE-S3)

☐ AWS Key Management Service key (SSE-KMS)

**Bucket Key**

When KMS encryption is used to encrypt new objects in this bucket, the bucket key reduces encryption costs by lowering calls to AWS KMS.

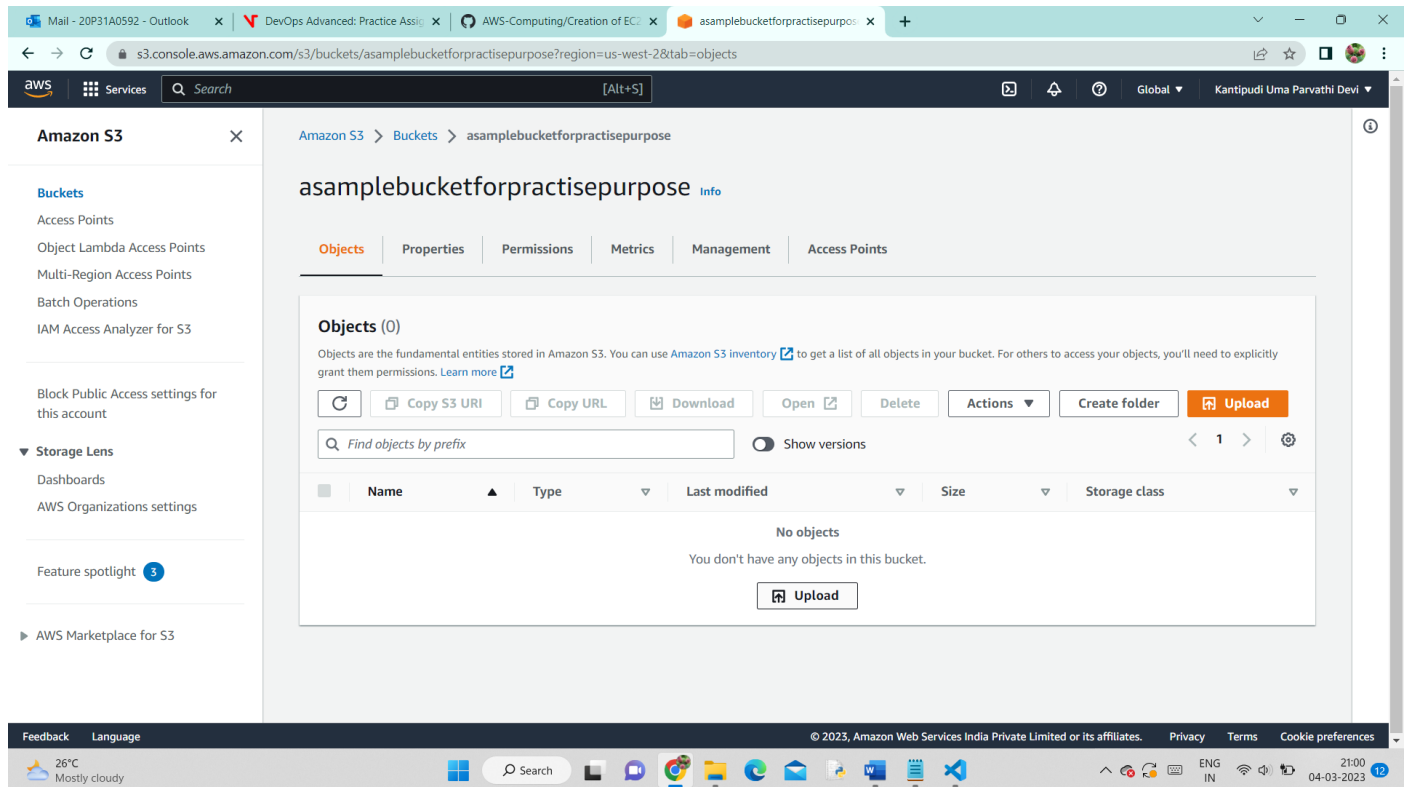
## STEP 5 : Click on “Create bucket”.

The screenshot shows the AWS S3 console 'Create bucket' page. The browser tabs include 'Mail - 20P31A0592 - Outlook', 'DevOps Advanced: Practice Assi...', 'AWS-Computing/Creation of EC...', and 'S3 bucket'. The URL is 's3.console.aws.amazon.com/s3/bucket/create?region=us-west-2'. The page has a dark header with the AWS logo, 'Services', a search bar, and user information 'Kantipudi Uma Parvathi Devi'. The main content area shows 'No tags associated with this bucket.' with an 'Add tag' button. Below is the 'Default encryption' section, which states 'Server-side encryption is automatically applied to new objects stored in this bucket.' It includes an 'Encryption key type' section with two options: 'Amazon S3 managed keys (SSE-S3)' (selected) and 'AWS Key Management Service key (SSE-KMS)'. There is also a 'Bucket Key' section with 'Disable' and 'Enable' (selected) options. A 'Learn more' link is present. Below these is an 'Advanced settings' section. At the bottom, there is a blue informational box stating 'After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.' and two buttons: 'Cancel' and 'Create bucket'.

## STEP 6: Click on the name of your bucket.

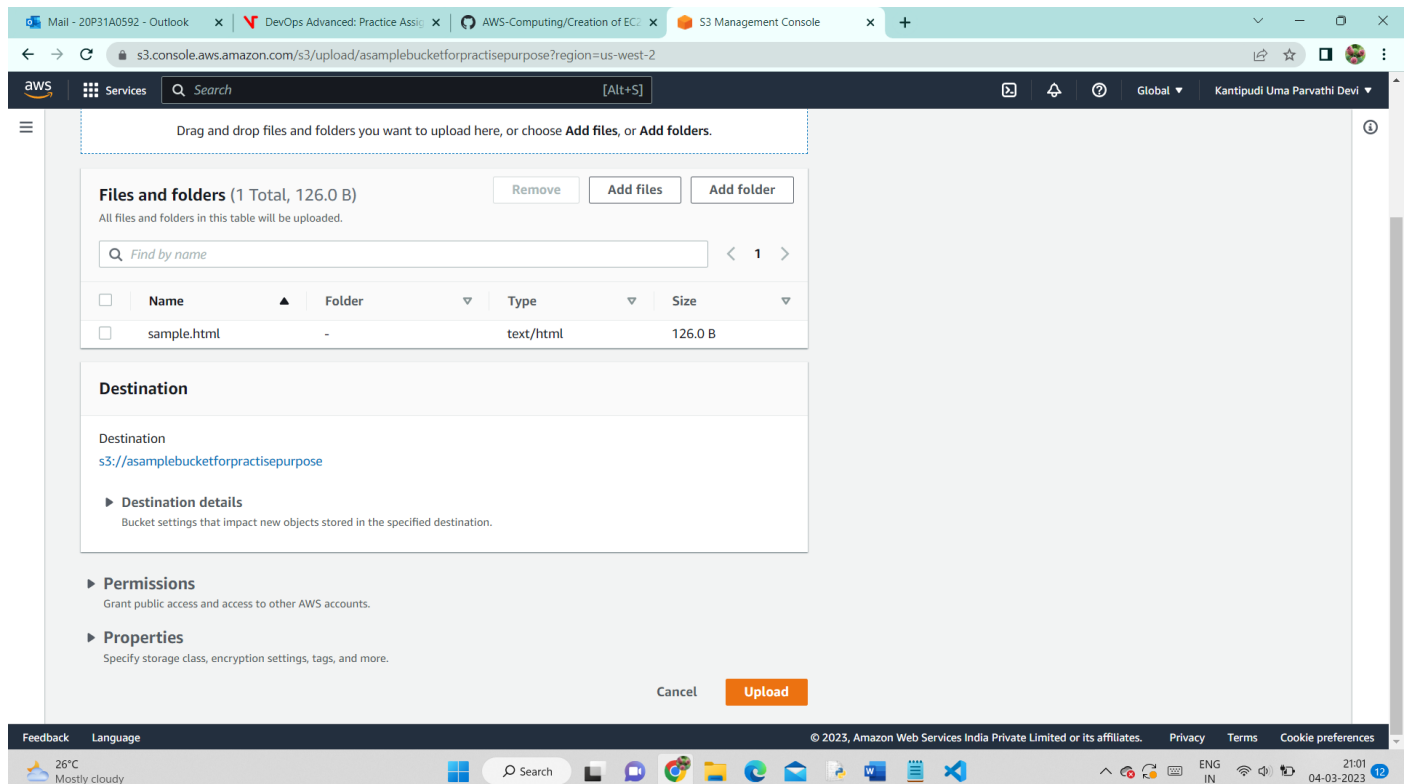
The screenshot shows the AWS S3 console 'Buckets' page. The browser tabs include 'Mail - 20P31A0592 - Outlook', 'DevOps Advanced: Practice Assi...', 'AWS-Computing/Creation of EC...', and 'S3 Management Console'. The URL is 's3.console.aws.amazon.com/s3/buckets?region=us-west-2'. The page has a dark header with the AWS logo, 'Services', a search bar, and user information 'Kantipudi Uma Parvathi Devi'. A green success banner at the top states 'Successfully created bucket "asamplebucketforpracticisepurpose"' and 'To upload files and folders, or to configure additional bucket settings choose View details.' with a 'View details' button. The main content area shows 'Amazon S3 > Buckets'. It includes an 'Account snapshot' section with a 'View Storage Lens dashboard' button. Below is the 'Buckets (1)' section, which includes a search bar 'Find buckets by name' and a table of buckets. The table has columns: 'Name', 'AWS Region', 'Access', and 'Creation date'. The table contains one row for the bucket 'asamplebucketforpracticisepurpose' in 'US West (Oregon) us-west-2' with 'Access' set to 'Objects can be public' and 'Creation date' of 'March 4, 2023, 21:00:14 (UTC+05:30)'. At the bottom, there is a 'Feature spotlight' section with a '3' icon and an 'AWS Marketplace for S3' link.

STEP 7 : Click on upload to upload file or folders as you wish.



The screenshot shows the Amazon S3 console interface. The left sidebar contains navigation options like Buckets, Access Points, and Storage Lens. The main content area displays the bucket 'asamplebucketforpractisepurpose'. Under the 'Objects' tab, it shows 'Objects (0)' and a message: 'No objects. You don't have any objects in this bucket.' The 'Upload' button is prominently displayed in the top right of the object list area.

STEP 8 : Now click on Add files and add your required files into the s3 bucket. After uploading your file click on “Upload”.



The screenshot shows the 'Add files' dialog in the Amazon S3 console. At the top, it says 'Drag and drop files and folders you want to upload here, or choose Add files, or Add folders.' Below this, a table titled 'Files and folders (1 Total, 126.0 B)' shows one file: 'sample.html' with a size of 126.0 B. The 'Destination' section shows the path 's3://asamplebucketforpractisepurpose'. At the bottom, there are 'Cancel' and 'Upload' buttons.

## STEP 9 : Go back to your s3 bucket.

Mail - 20P31A0592 - Outlook x DevOps Advanced: Practice Assi x AWS-Computing/Creation of EC S3 Management Console x +

s3.console.aws.amazon.com/s3/upload/asamplebucketforpractisepurpose?region=us-west-2

aws Services Search [Alt+S]

Upload succeeded  
View details below.

### Upload: status

The information below will no longer be available after you navigate away from this page.

#### Summary

Destination s3://asamplebucketforpractisepurpose	Succeeded 1 file, 126.0 B (100.00%)	Failed 0 files, 0 B (0%)
---	--	-----------------------------

#### Files and folders

Configuration

#### Files and folders (1 Total, 126.0 B)

Find by name

Name	Folder	Type	Size	Status	Error
sample.html	-	text/html	126.0 B	Succeeded	-

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26°C Mostly cloudy

## STEP 10 : Now click on “Permissions”.

Mail - 20P31A0592 - Outlook x DevOps Advanced: Practice Assi x AWS-Computing/Creation of EC asamplebucketforpractisepurpose x +

s3.console.aws.amazon.com/s3/buckets/asamplebucketforpractisepurpose?region=us-west-2&tab=permissions

aws Services Search [Alt+S]

### Amazon S3

Buckets

- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

- Dashboards
- AWS Organizations settings

Feature spotlight 3

AWS Marketplace for S3

### asamplebucketforpractisepurpose

Info

Objects Properties Permissions Metrics Management Access Points

#### Permissions overview

Access  
Objects can be public

#### Block public access (bucket settings)

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 all your S3 buckets and 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 your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Edit

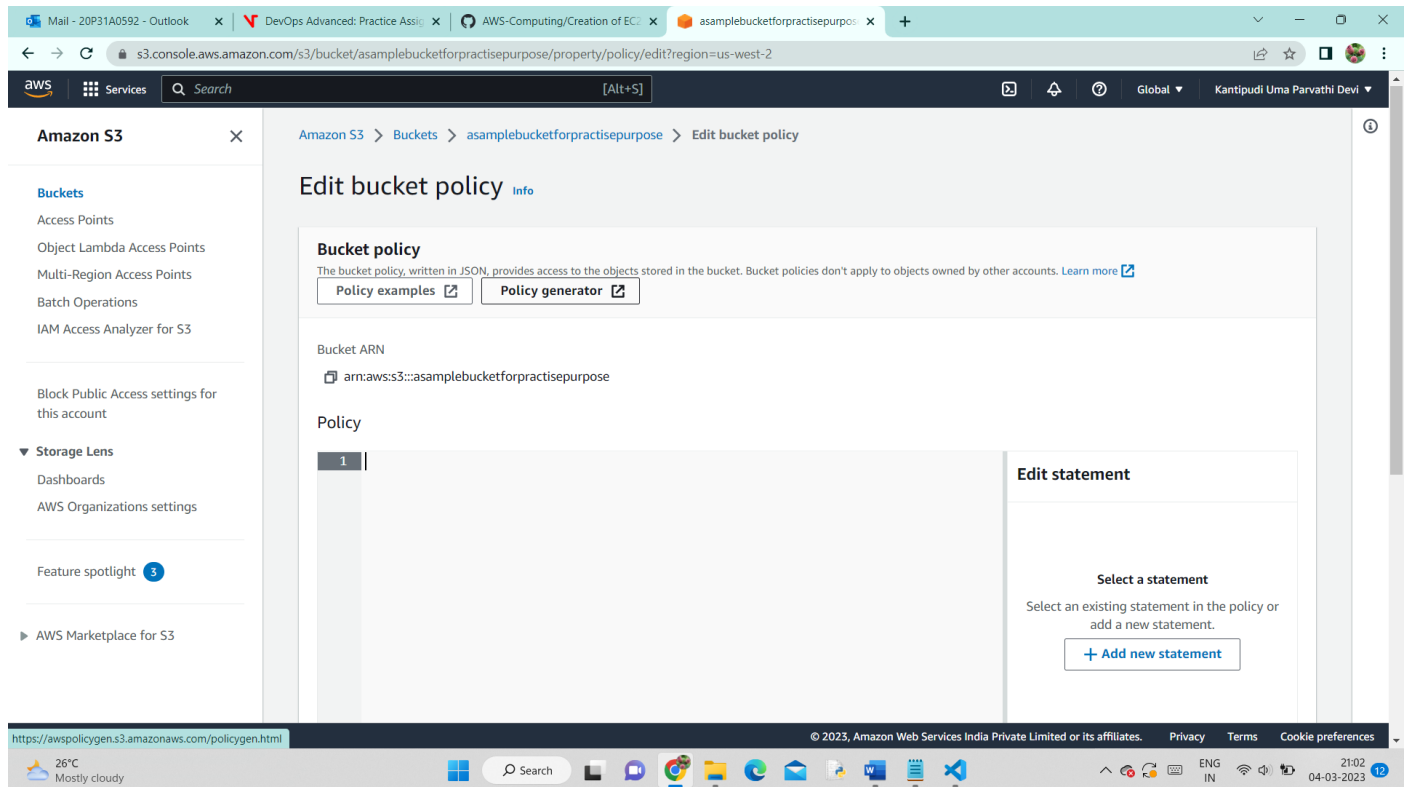
Block all public access  
Off

Individual Block Public Access settings for this bucket

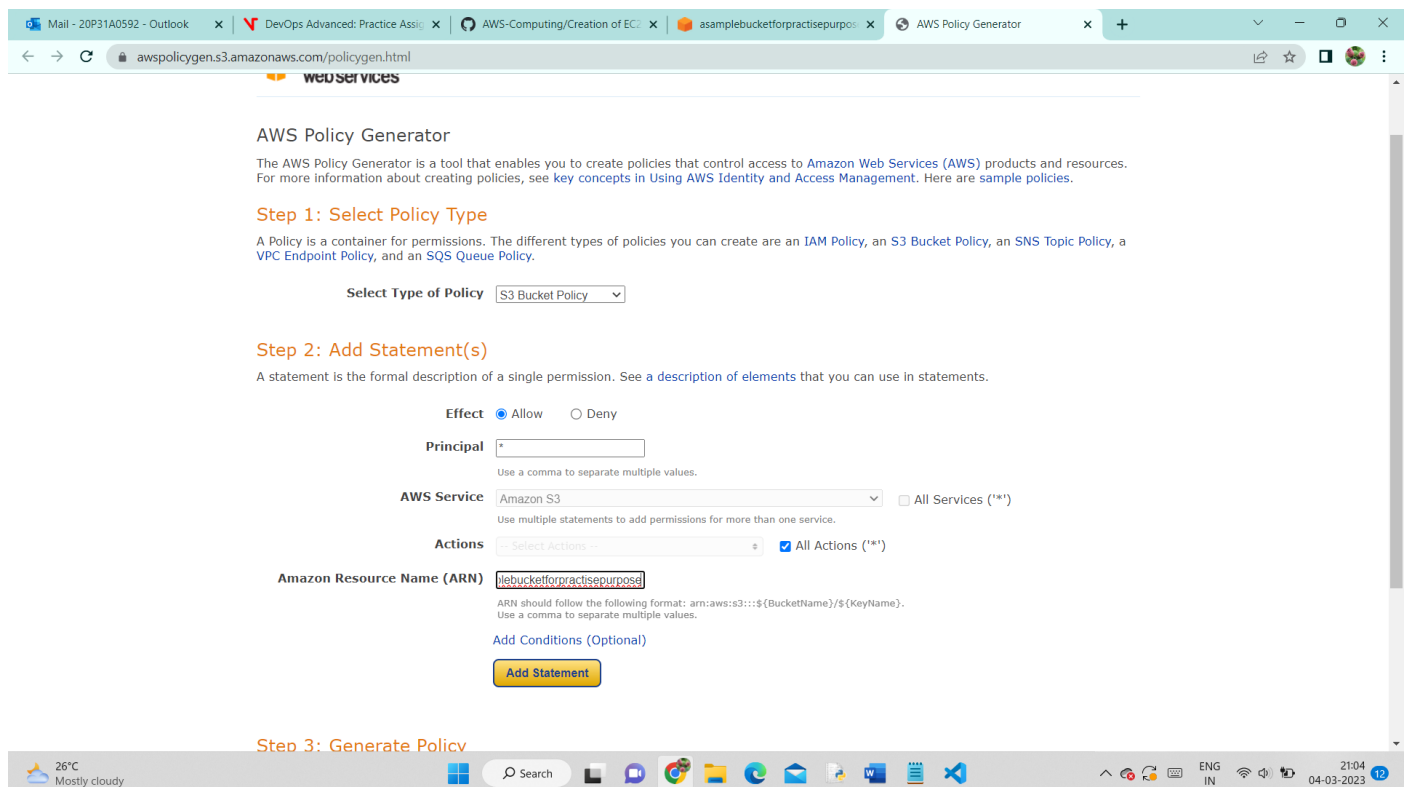
https://s3.console.aws.amazon.com/s3/# © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

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STEP 11 : Click on edit under Bucket policy and then click on “Policy generator”.



STEP 12 : Give all details as given in below screen shot.



STEP 13: Now click generate policy. In Resource arn give “/\*” at last as shown in below code and copy the code.

The screenshot shows the AWS Policy Generator interface. A modal window titled "Policy JSON Document" is open, displaying the following JSON code:

```
{
  "Id": "Policy1677944096009",
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "Stm1677944096009",
      "Action": "s3:*",
      "Effect": "Allow",
      "Resource": "arn:aws:s3:::asamplebucketforpractisepurpose/*",
      "Principal": "*"
    }
  ]
}
```

Below the JSON code, there is a disclaimer: "This AWS Policy Generator is provided for informational purposes only, you are still responsible for your use of Amazon Web Services technologies and ensuring that your use is in compliance with all applicable terms and conditions. This AWS Policy Generator is provided as is without warranty of any kind, whether express, implied, or statutory. This AWS Policy Generator does not modify the applicable terms and conditions governing your use of Amazon Web Services technologies." A "Close" button is at the bottom of the modal.

STEP 14 : Paste the code in policy generator and click on save. Now go to your object and copy the url.

The screenshot shows the AWS S3 console. The bucket "asamplebucketforpractisepurpose" is selected, and the "Objects" tab is active. A notification "Object URL Copied" is visible. Below the notification, there are buttons for "Copy S3 URI", "Copy URL", "Download", "Open", "Delete", "Actions", "Create folder", and "Upload". A search bar "Find objects by prefix" is present. Below the search bar, a table lists the objects in the bucket:

<input checked="" type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input checked="" type="checkbox"/>	sample.html	html	March 4, 2023, 21:01:10 (UTC+05:30)	126.0 B	Standard

The footer of the console shows "© 2023, Amazon Web Services India Private Limited or its affiliates." and "Privacy Terms Cookie preferences".

STEP 15 : Now paste the URL in your web browser. You'll get your html page.

