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Assignment No 4

Deploy Web application using S3 Bucket (PHP/Python/Node.js any application)

AIM

→ Deploy Web application using S3 Bucket

Theory

→ What is the AWS S3 Bucket?

A bucket is a container for objects. An object is a file and any metadata that describes that file. To store an object in Amazon S3, you create a bucket and then upload the object to a bucket. When the object is in the bucket, you can open it, download it, and move it. When you no longer need an object or a bucket, you can clean up your resources. Amazon S3 supports global buckets, which means that each bucket name must be unique across all AWS accounts in all the AWS Regions within a partition. Amazon S3 creates buckets in a Region that you specify

After a bucket is created, the name of that bucket cannot be used by another AWS account in the same partition until the bucket is deleted. You can use your AWS account root user credentials to create a bucket and perform any other Amazon S3 operation. However, we recommend that you do not use the root user credentials of your AWS account to make requests, such as to create a bucket. Instead, create an AWS Identity and Access Management (IAM) user, and grant that user full access (users by default have no permissions). These users are referred to as administrators. You can use the administrator user credentials, instead of the root user credentials of your account, to interact with AWS and perform tasks, such as create a bucket, create users, and grant them permissions

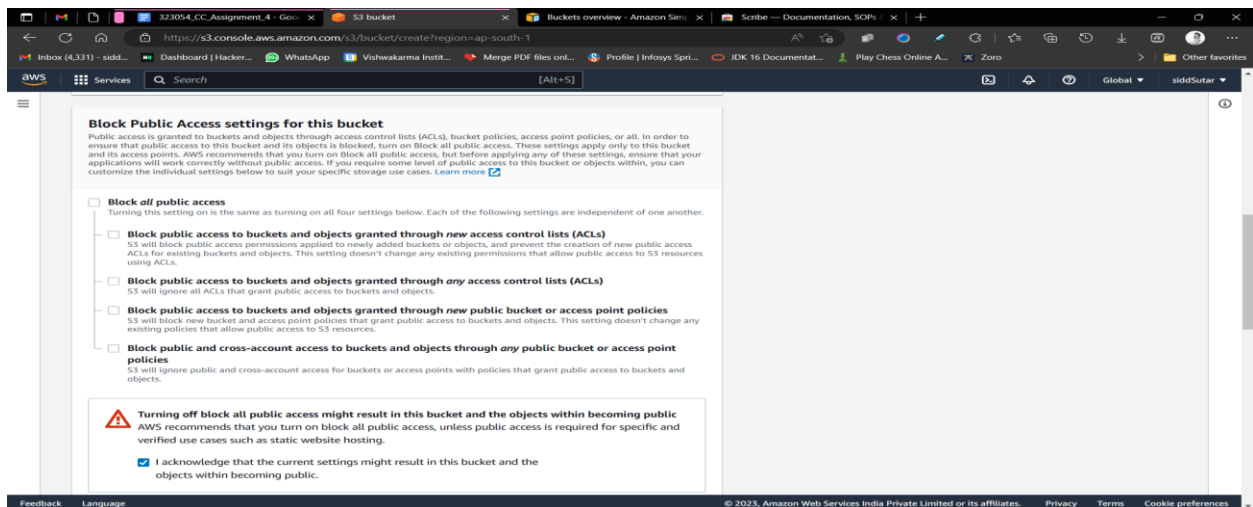
Steps for Hosting Website

STEP 1

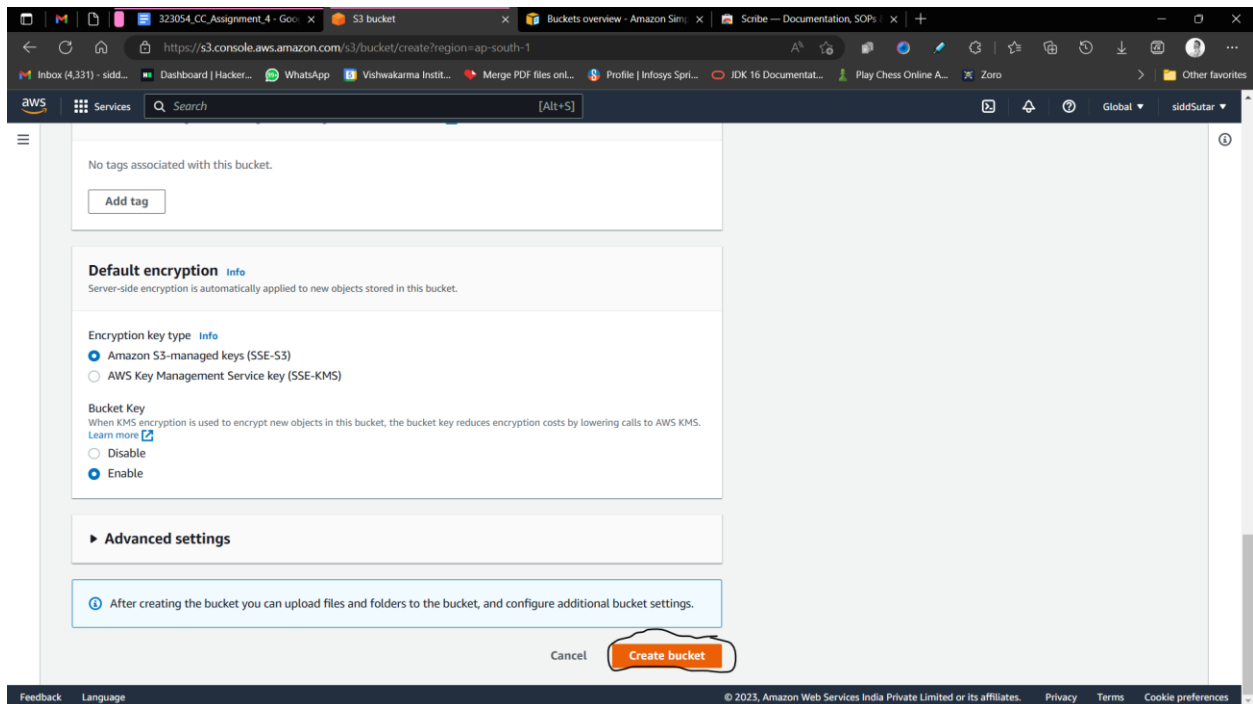
→ Open AWS console and search & create S3 bucket

The screenshot shows the AWS S3 console 'Create bucket' page. The browser address bar shows the URL: `https://s3.console.aws.amazon.com/s3/bucket/create?region=ap-south-1`. The page title is 'Create bucket' with an 'Info' link. Below the title, it says 'Buckets are containers for data stored in S3. [Learn more](#)'. The 'General configuration' section contains a 'Bucket name' input field with the value 'sidsnewbucket', a note that the name must be globally unique and not contain spaces or uppercase letters, and an 'AWS Region' dropdown menu set to 'Asia Pacific (Mumbai) ap-south-1'. There is also a 'Copy settings from existing bucket - optional' section with a 'Choose bucket' button. The 'Object Ownership' section has two radio button options: 'ACLs disabled (recommended)' (which is selected) and 'ACLs enabled'. The footer of the page includes 'Feedback', 'Language', and copyright information for Amazon Web Services India Private Limited.

Note: Untick the block all access from public & acknowledge the public access off

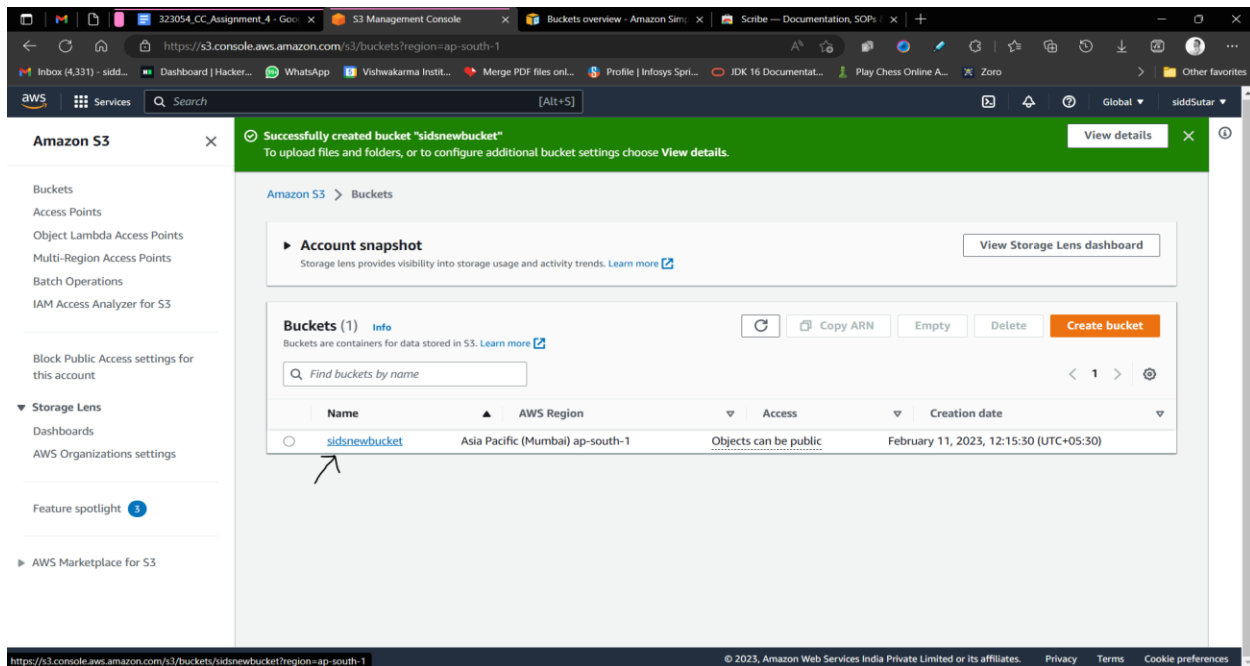


Now create Bucket

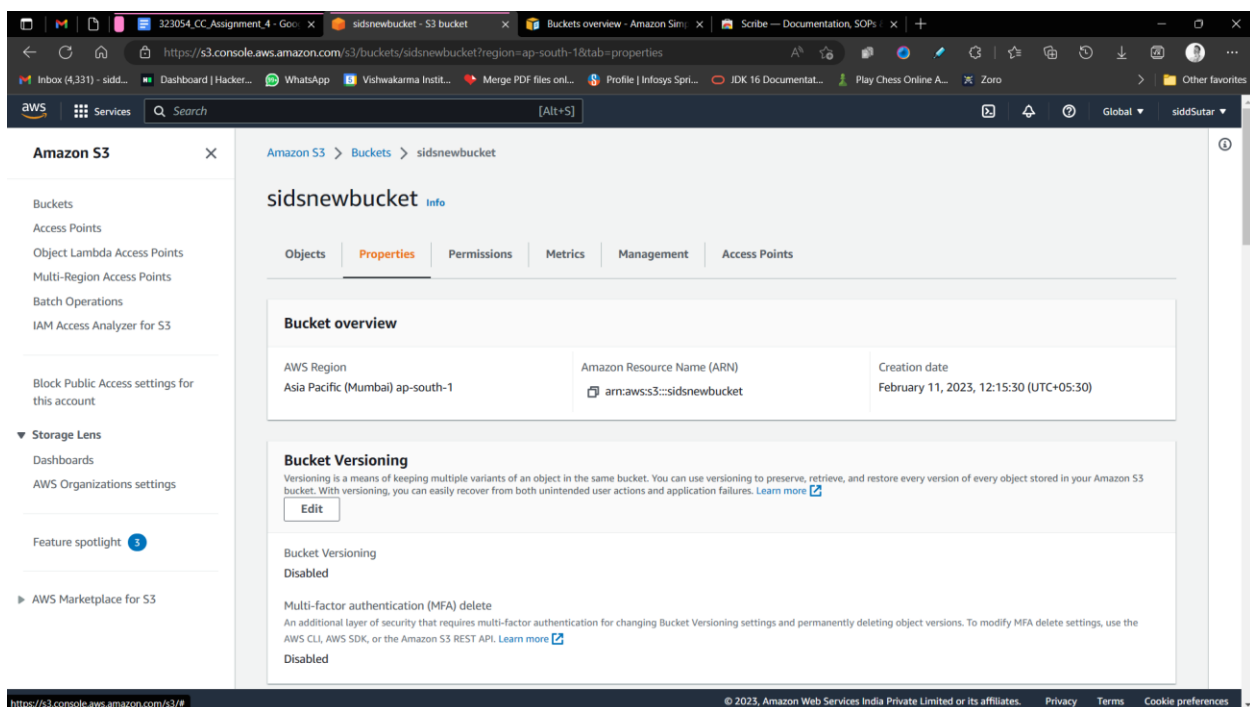


STEP 2

→ Click on bucket name

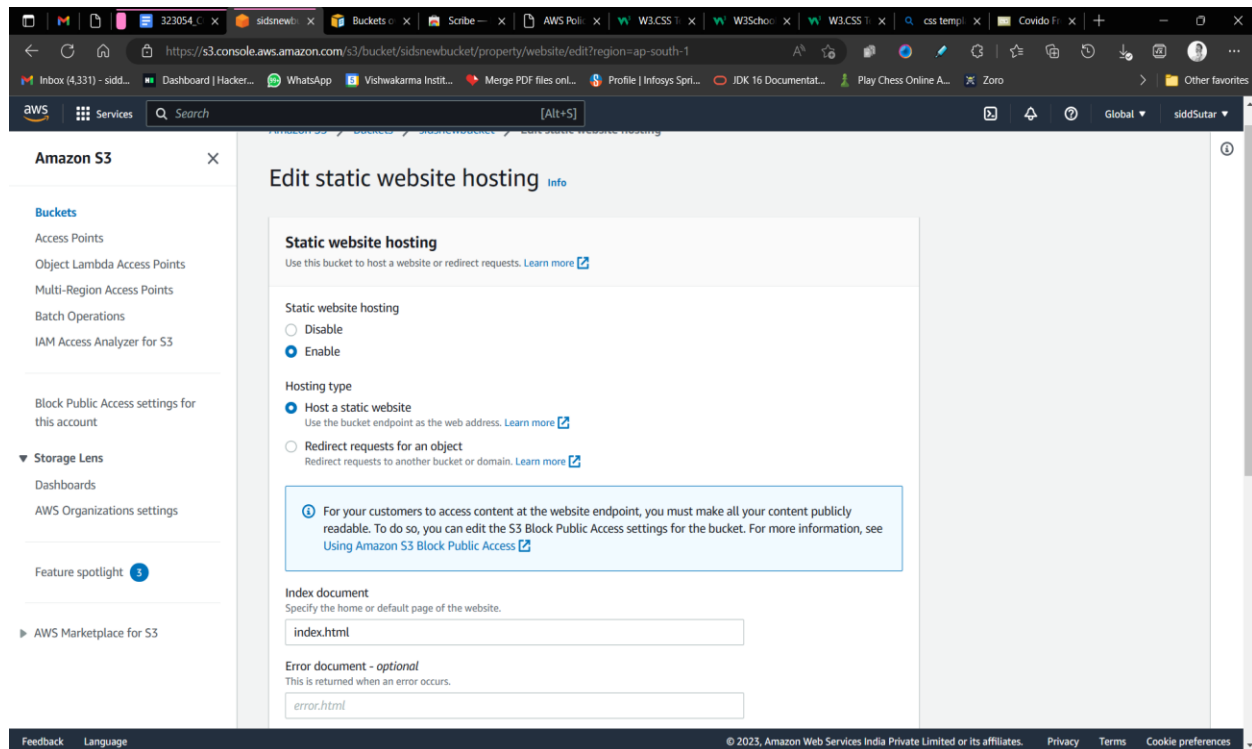


→ Open the properties of the bucket & edit the static hosting property



STEP 3

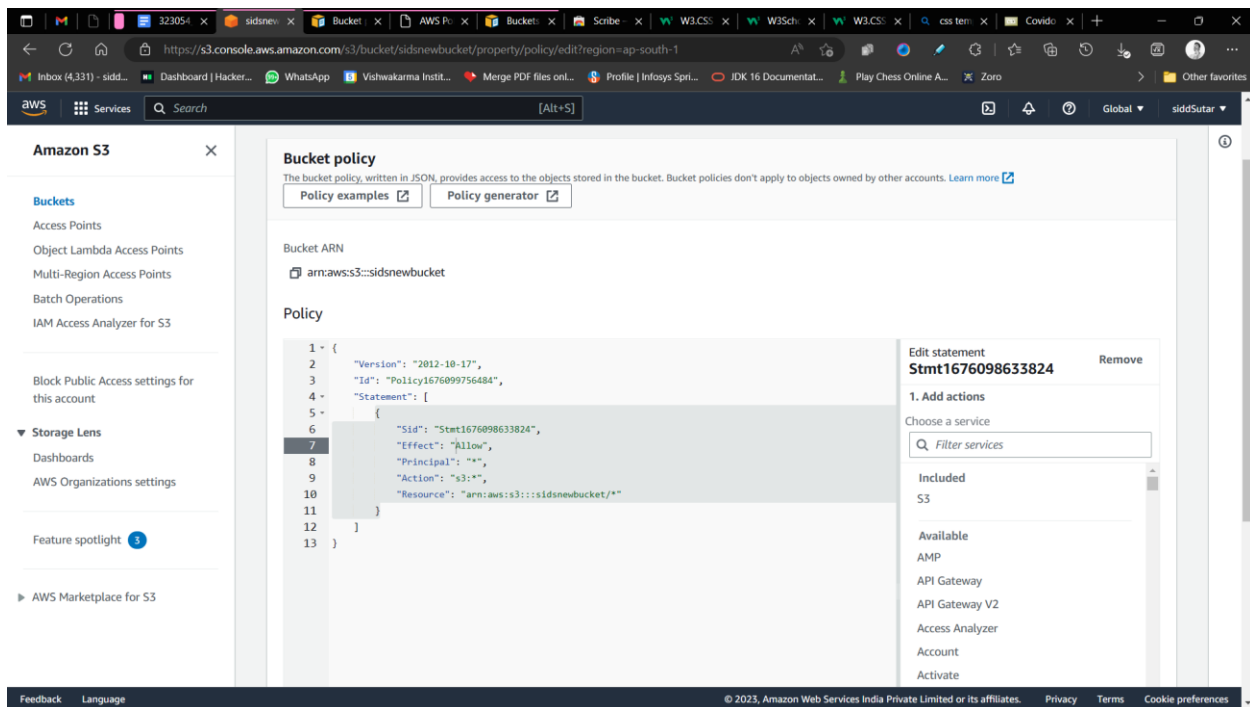
→ Enable static web hosting & add name of index document as index.html



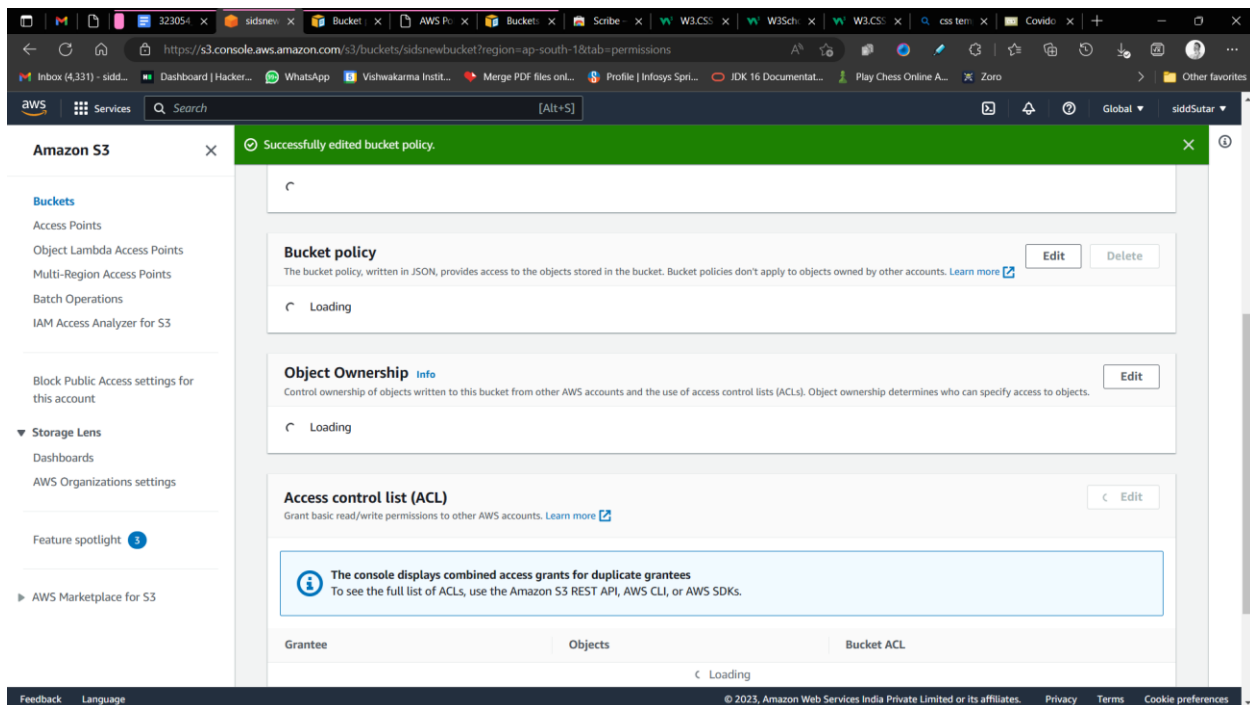
STEP 4

→ Go to the permissions of the bucket & and generate a new policy for our bucket (We can use aws policy generator or can get a basic template for web hosting on aws)

(Add the asked things and click on add statement and generate policy)

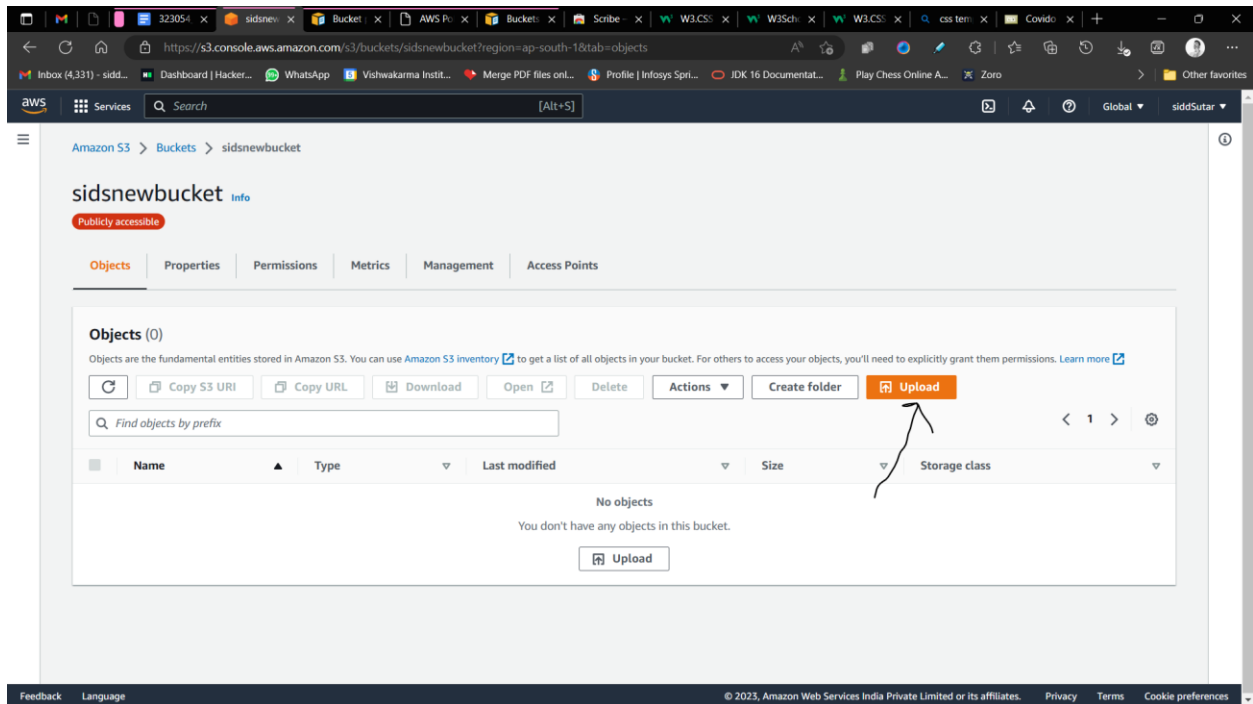


(Save the policy here)

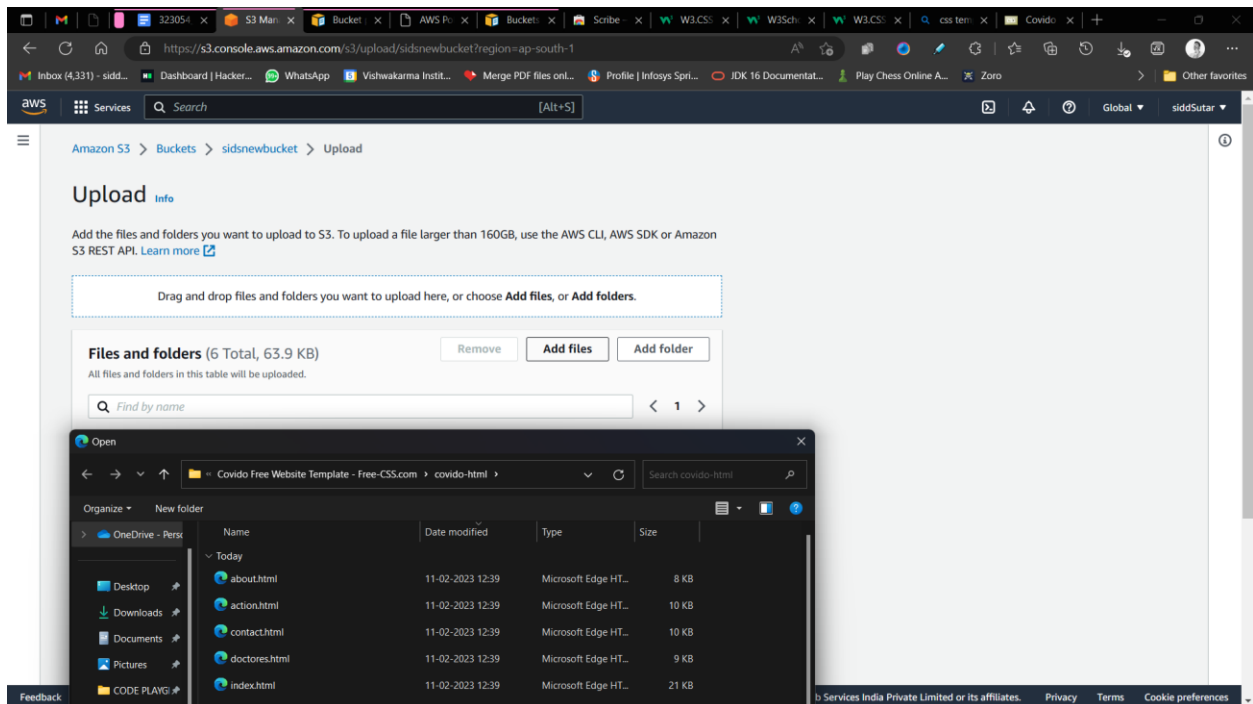


STEP 4

→ Open the bucket you are using & click on upload



→ Click on add file, then also add folder



→ Upload and save the files

Browser tabs: 323054, S3 Mar, Bucket, AWS Pi, Bucket, Scribe, W3.CS, W3Sch, W3.CS, cs tem, Covid, Zoro

Address bar: <https://s3.console.aws.amazon.com/s3/upload/sidsnewbucket?region=ap-south-1>

Search: Find by name

<input type="checkbox"/>	Name	Folder	Type	Size
<input type="checkbox"/>	about.html	-	text/html	7.8 KB
<input type="checkbox"/>	action.html	-	text/html	9.7 KB
<input type="checkbox"/>	contact.html	-	text/html	9.1 KB
<input type="checkbox"/>	doctores.html	-	text/html	8.9 KB
<input type="checkbox"/>	index.html	-	text/html	20.5 KB
<input type="checkbox"/>	news.html	-	text/html	7.8 KB

Destination

Destination: [s3://sidsnewbucket](#)

► **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

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Browser tabs: 323054, S3 Mar, Bucket, AWS Pi, Bucket, Scribe, W3.CS, W3Sch, W3.CS, cs tem, Covid, Zoro

Address bar: <https://s3.console.aws.amazon.com/s3/upload/sidsnewbucket?region=ap-south-1>

Search: Find by name

Upload succeeded
View details below.

Upload: status Close

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

Summary

Destination	Succeeded	Failed
s3://sidsnewbucket	6 files, 63.9 KB (100.00%)	0 files, 0 B (0%)

Files and folders Configuration

Files and folders (6 Total, 63.9 KB)

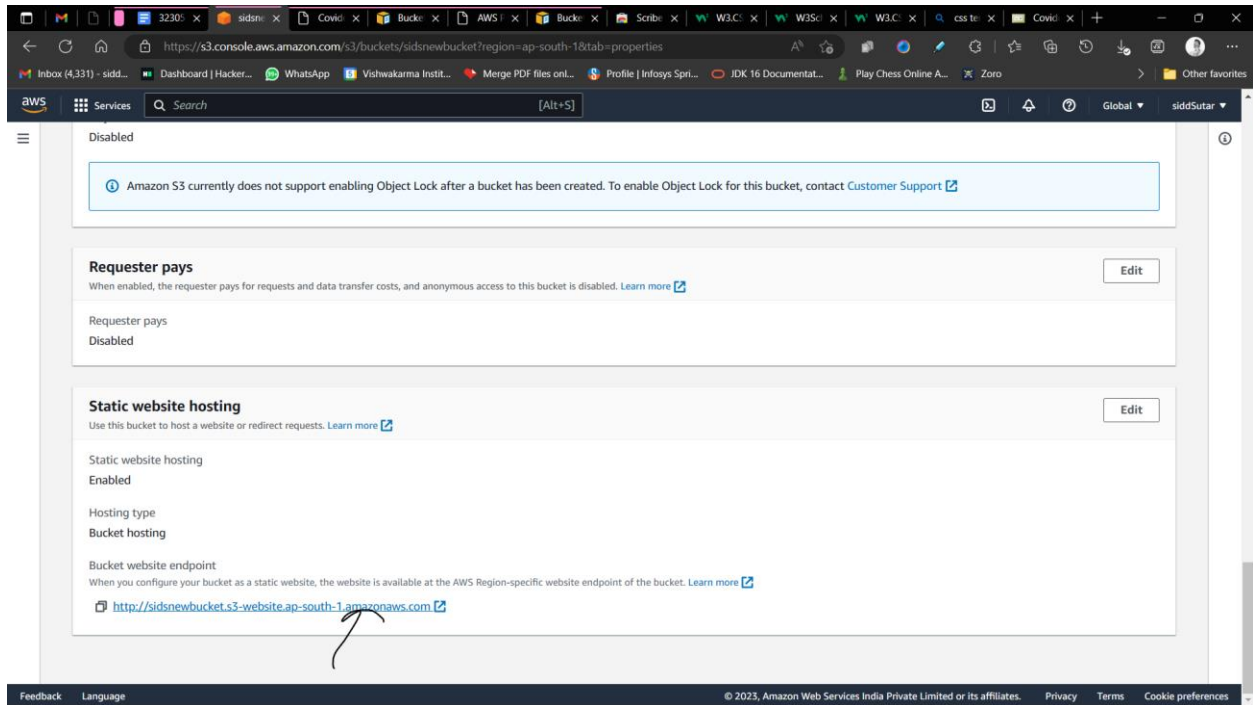
Find by name

Name	Folder	Type	Size	Status	Error
about.html	-	text/html	7.8 KB	Succeeded	-
action.html	-	text/html	9.7 KB	Succeeded	-

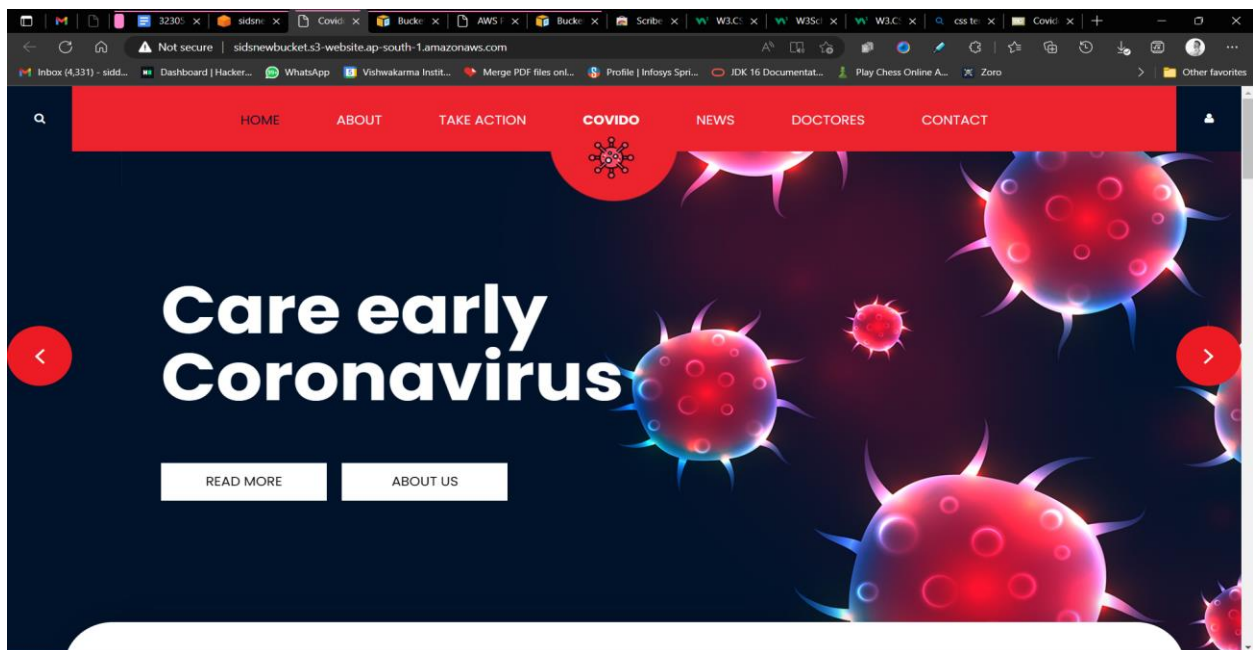
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STEP 5

→ Click on this link

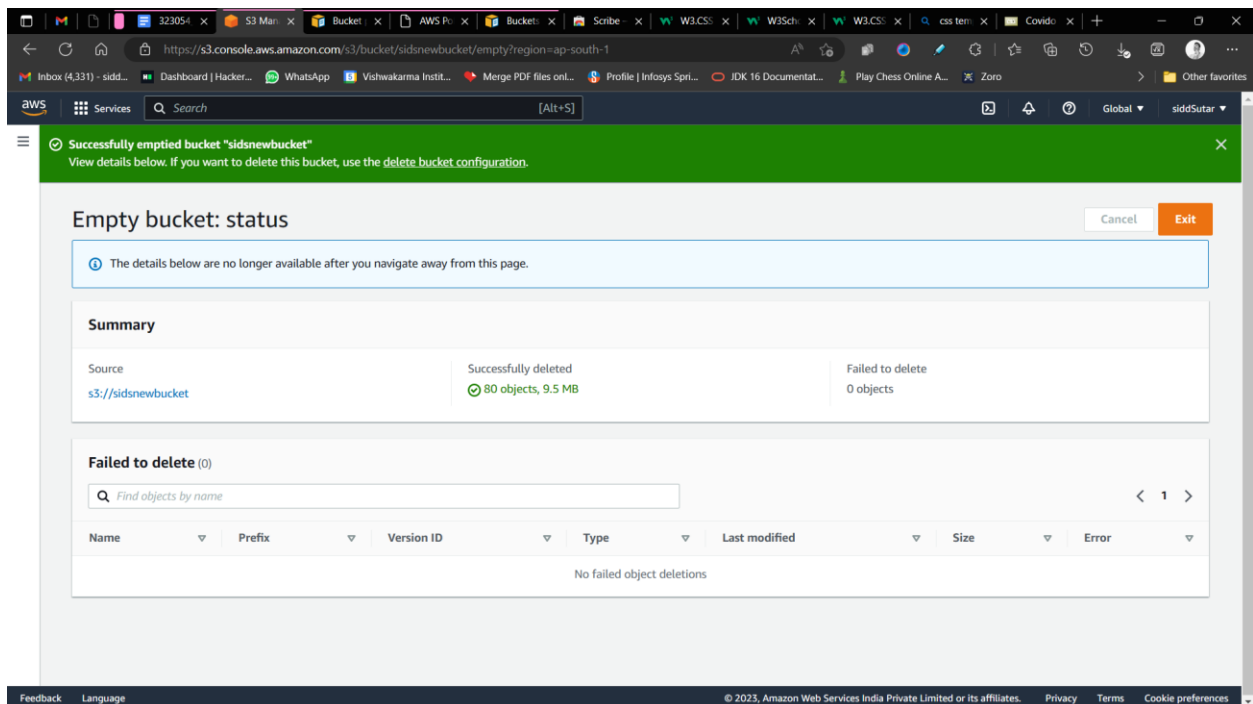
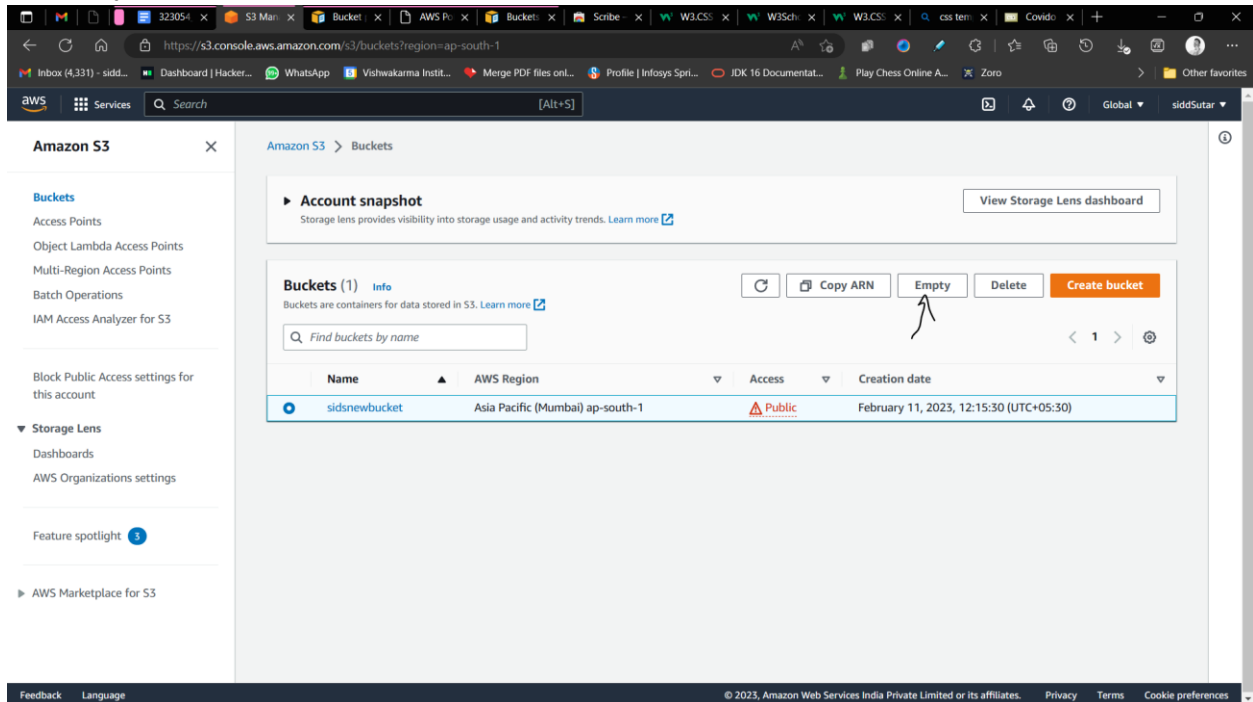


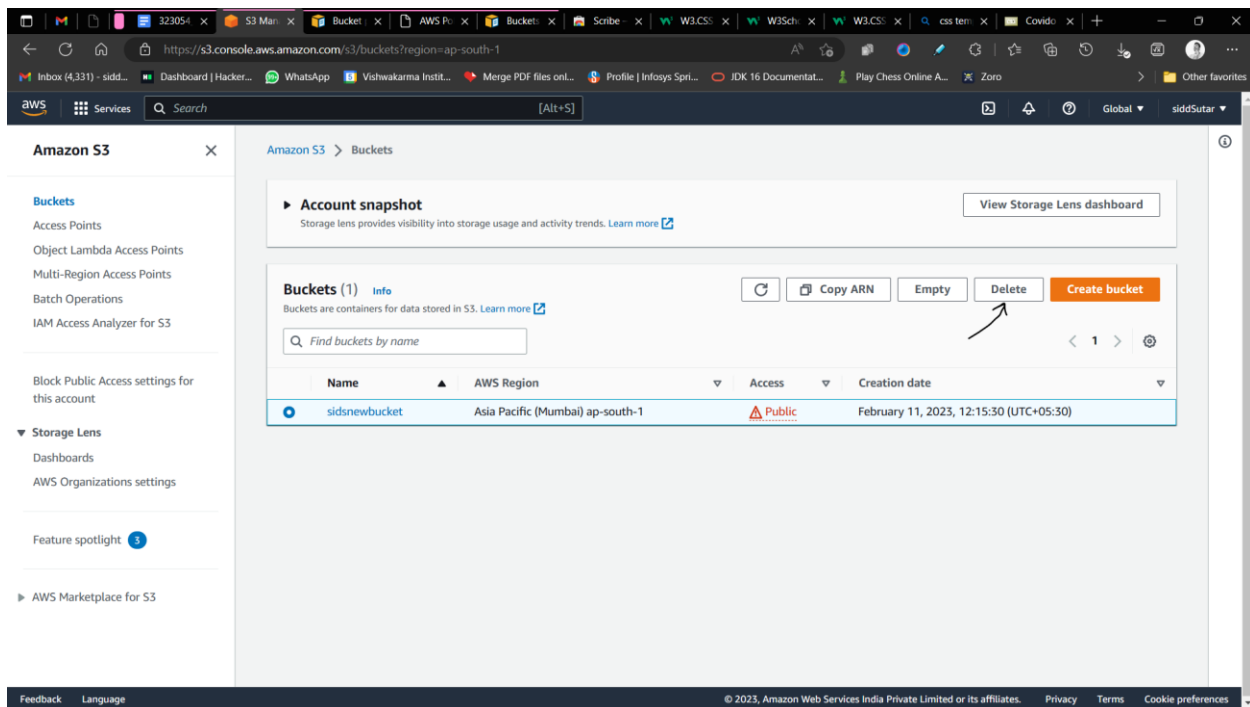
→ When clicked on this link we get this website



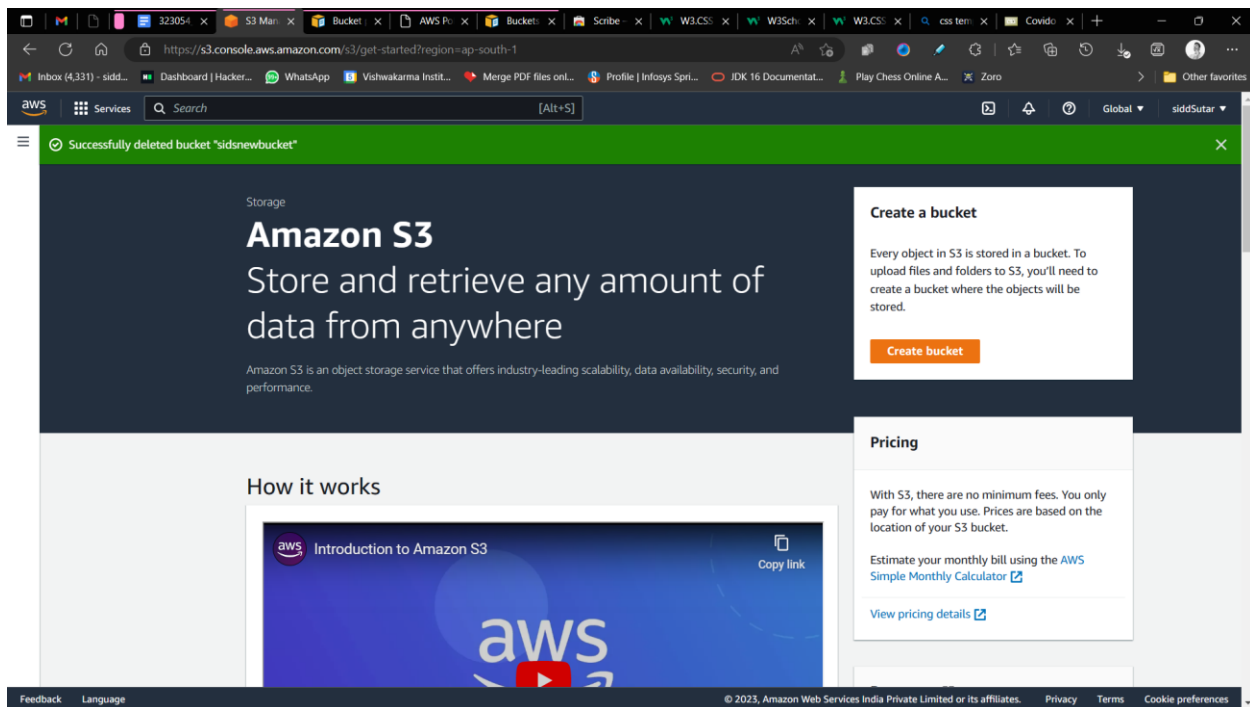
STEP 6

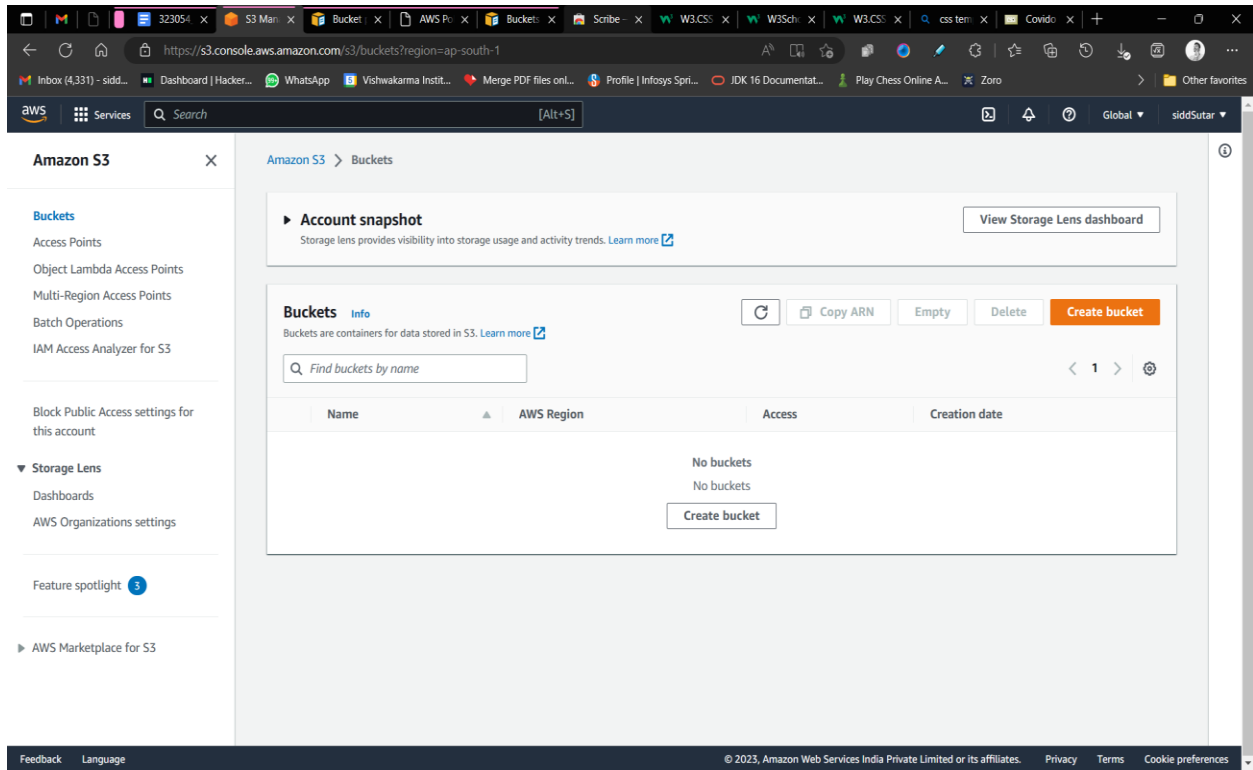
→ Empty the bucket first





Click on delete bucket





Finally done!