

## Experiment No :2

### Working with Amazon S3 Orchestrating Serverless Functions with AWS Step Functions

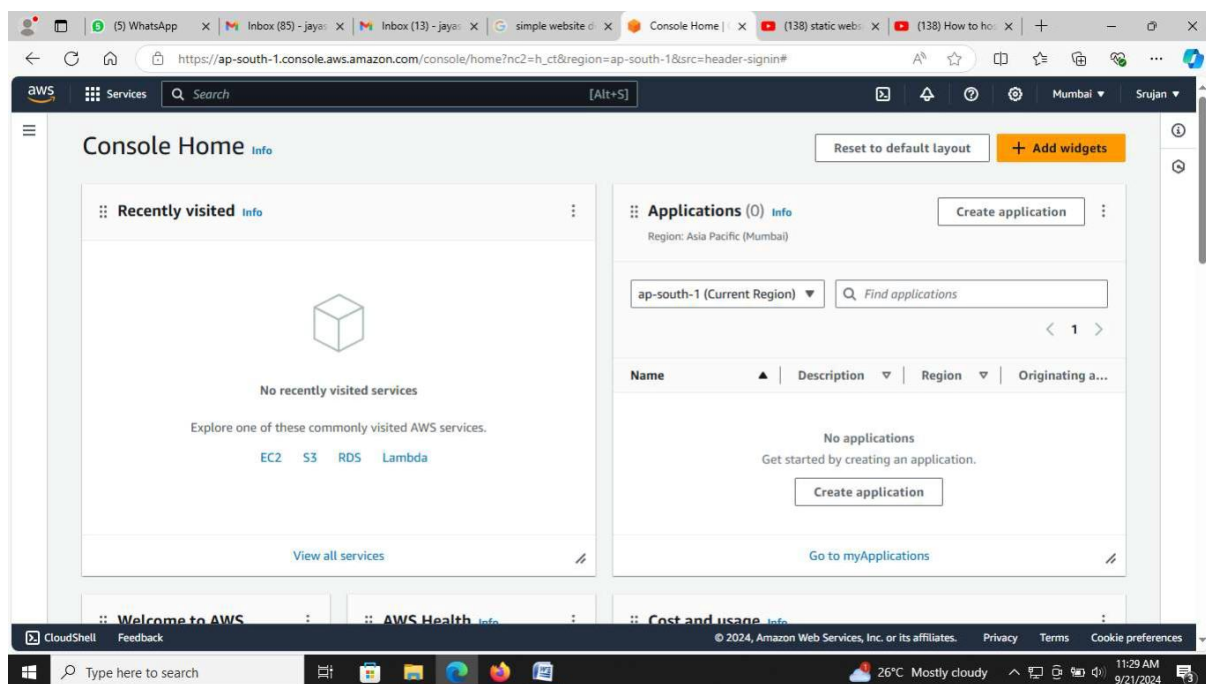
**Amazon S3** - Amazon Simple Storage Service (Amazon S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance. You can use Amazon S3 to store and retrieve any amount of data at any time, from anywhere.

**AWS Step Functions** - AWS Step Functions lets you coordinate individual tasks into a visual workflow, so you can build and update apps quickly. The workflows you build with Step Functions are called state machines, and each step of your workflow is called a state.

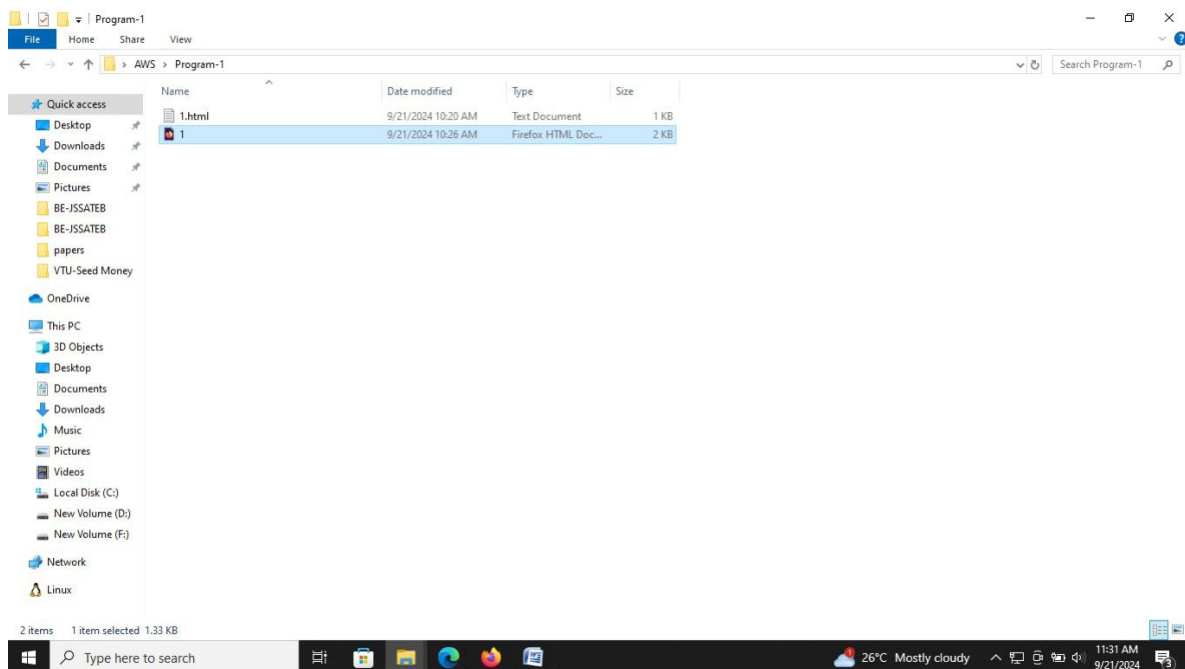
#### Procedure:

#### Host a static website on AWS using S3

#### Home page of aws

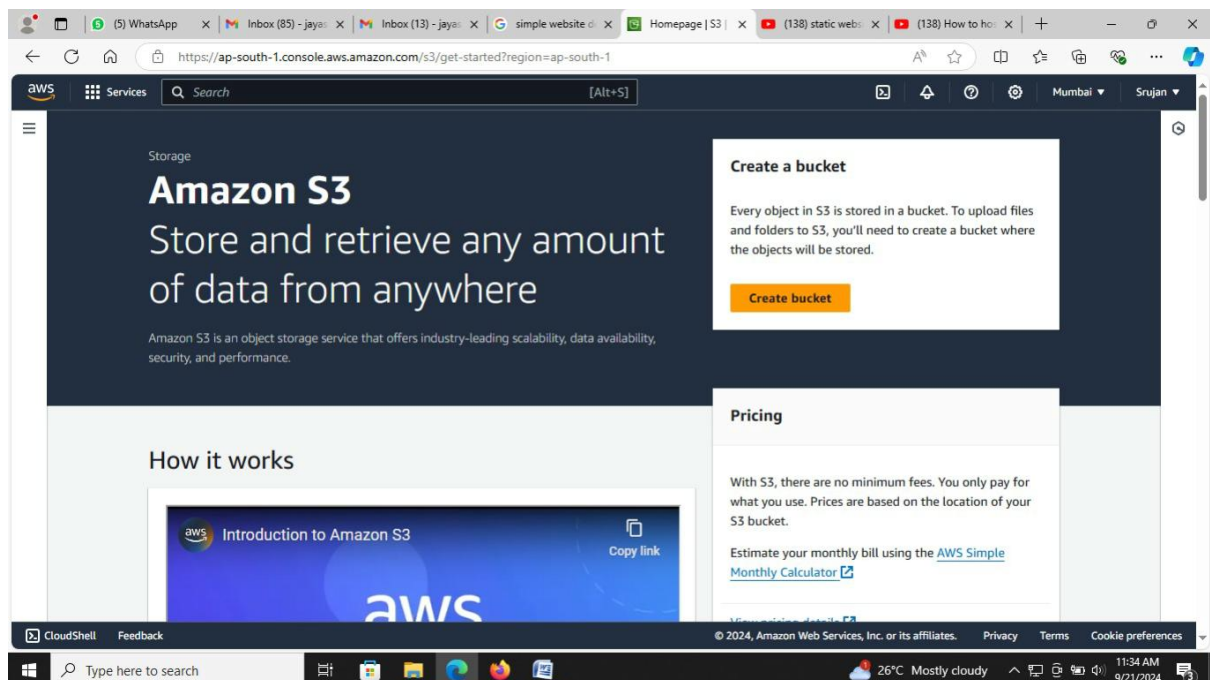


**Before host a website get ready with html code and browser**



**Go to aws management console**

**Select s3**



## Create bucket

### Give the name of the bucket → create

Create S3 bucket | S3 | eu-north-1 | vtu1.s3.eu-north-1.amazonaws.com | Introducing ChatGPT | OpenAI

eu-north-1.console.aws.amazon.com/s3/bucket/create?region=eu-north-1&bucketType=general

Amazon S3 > Buckets > Create bucket

### 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](#)

vtu1

Bucket names must be 3 to 63 characters and unique within the global namespace. Bucket names must also begin and end with a letter or number. Valid characters are a-z, 0-9, periods (.), and hyphens (-). [Learn More](#)

**Copy settings from existing bucket - optional**  
Only the bucket settings in the following configuration are copied.

[Choose bucket](#)

Format: s3://bucket/prefix

#### Object Ownership [info](#)

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

Edit static website hosting - S3 | vtu1.s3.eu-north-1.amazonaws.com | Introducing ChatGPT | OpenAI

eu-north-1.console.aws.amazon.com/s3/bucket/vtu1/property/website/edit?region=eu-north-1&bucketType=general

Amazon S3 > Buckets > vtu1 > Edit static website hosting

### Static website hosting [info](#)

Use this bucket to host a website or redirect requests. [Learn more](#)

**Static website hosting**

☐ Disable

☒ Enable

**Hosting type**

☒ **Host a static website**  
Use the bucket endpoint as the web address. [Learn more](#)

☐ **Redirect requests for an object**  
Redirect requests to another bucket or domain. [Learn more](#)

[For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see Using Amazon S3 Block Public Access](#)

**Index document**  
Specify the home or default page of the website.

sample.html

**Error document - optional**  
This is returned when an error occurs.

error.html

**Redirection rules - optional**  
Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

## Bucket is created

The screenshot shows the AWS Management Console for the 'eu-north-1' region. A green banner at the top states 'Successfully created bucket "vtu1"'. Below this, there's a section for 'Account snapshot' and a 'View Storage Lens dashboard' link. The 'General purpose buckets' tab is selected, showing a table with one bucket named 'vtu1' in the 'Europe (Stockholm) eu-north-1' region, created on April 9, 2025. The table has columns for Name, AWS Region, IAM Access Analyzer, and Creation date. The bucket 'vtu1' is listed with a link to 'View analyzer for eu-north-1'. The console also shows a 'Create bucket' button and a 'Find buckets by name' search bar.

Name	AWS Region	IAM Access Analyzer	Creation date
vtu1	Europe (Stockholm) eu-north-1	<a href="#">View analyzer for eu-north-1</a>	April 9, 2025, 21:00:11 (UTC+05:30)

## Upload the required files by selecting the created bucket

This screenshot is identical to the one above, showing the AWS Management Console with the bucket 'vtu1' created. The interface includes the same green success banner, account snapshot information, and the 'General purpose buckets' tab with the bucket list. The bucket 'vtu1' is shown in the 'Europe (Stockholm) eu-north-1' region, created on April 9, 2025. The console also features a 'Create bucket' button and a search bar for finding buckets by name.

Name	AWS Region	IAM Access Analyzer	Creation date
vtu1	Europe (Stockholm) eu-north-1	<a href="#">View analyzer for eu-north-1</a>	April 9, 2025, 21:00:11 (UTC+05:30)

## Click on upload → add files

The screenshot shows the AWS S3 console's 'Upload' page for the bucket 'vtu1' in the 'eu-north-1' region. The page has a header with the AWS logo and navigation links. Below the header, there's a section titled 'Upload' with a sub-header 'info'. It contains instructions: '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](#)'. Below this is a large dashed box with the text 'Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.' Below the dashed box is a section titled 'Files and folders (0)' with a sub-header 'info'. It contains the text 'All files and folders in this table will be uploaded.' and a search bar labeled 'Find by name'. Below the search bar is a table with columns: Name, Folder, Type, and Size. The table is empty, with the text 'No files or folders' and 'You have not chosen any files or folders to upload.' below it. To the right of the table are buttons: 'Remove', 'Add files', and 'Add folder'. Below the table is a section titled 'Destination' with a sub-header 'info'. It contains the text 'Destination' and 's3://vtu1'. Below this is a section titled 'Destination details' with the text 'Bucket settings that impact new objects stored in the specified destination.'

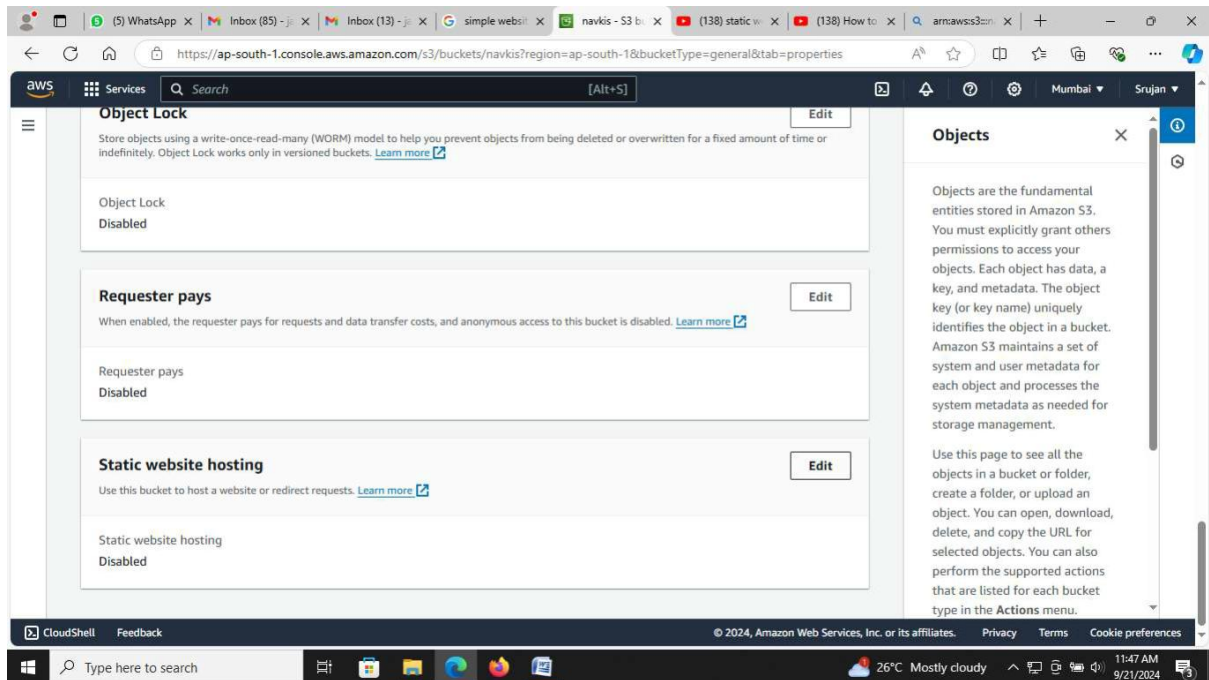
## Click\_on\_upload

The screenshot shows the AWS S3 console's 'Upload: status' page for the bucket 'vtu1' in the 'eu-north-1' region. The page has a header with the AWS logo and navigation links. Below the header, there's a green banner with a checkmark icon and the text 'Upload succeeded' and 'For more information, see the Files and folders table.' Below the banner is a section titled 'Upload: status' with a sub-header 'info'. It contains the text 'After you navigate away from this page, the following information is no longer available.' Below this is a section titled 'Summary' with a sub-header 'info'. It contains a table with columns: Destination, Succeeded, and Failed. The table has one row: 'Destination: s3://vtu1', 'Succeeded: 1 file, 108.0 B (100.00%)', and 'Failed: 0 files, 0 B (0%)'. Below the table are tabs: 'Files and folders' and 'Configuration'. Below the tabs is a section titled 'Files and folders (1 total, 108.0 B)' with a sub-header 'info'. It contains a search bar labeled 'Find by name' and a table with columns: Name, Folder, Type, Size, Status, and Error. The table has one row: 'Name: sample.html', 'Folder: -', 'Type: text/html', 'Size: 108.0 B', 'Status: Succeeded', and 'Error: -'.

## Enable static website hosting

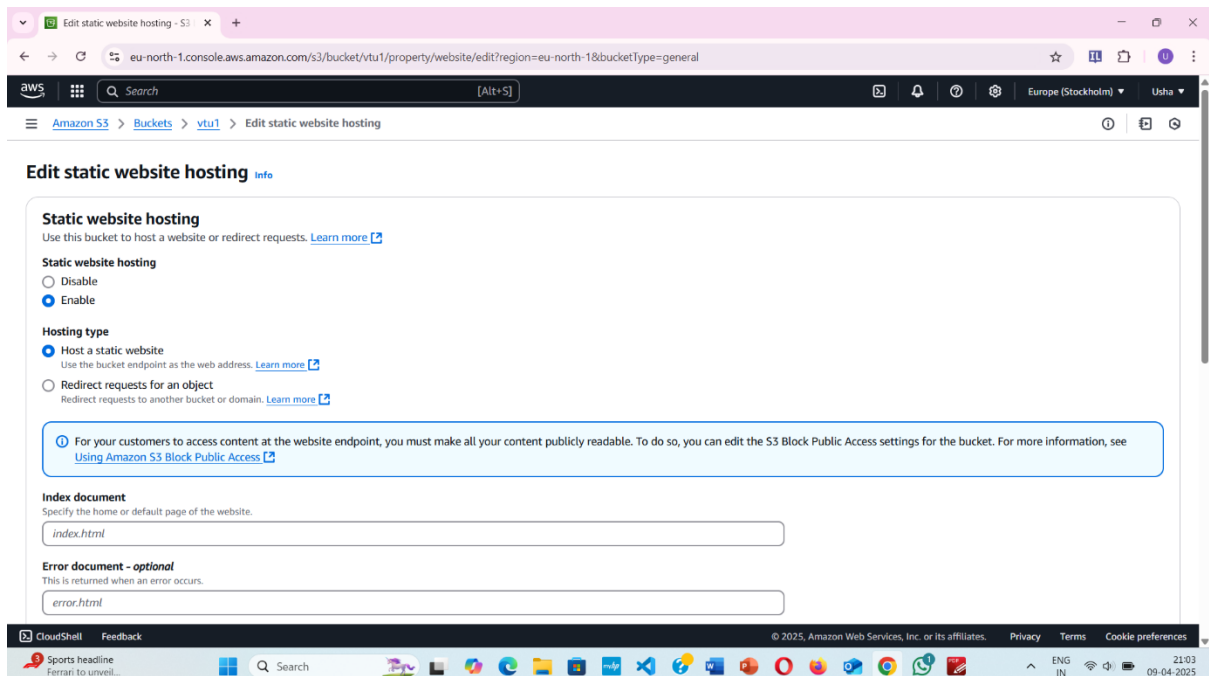
### Go to properties

### Scroll down – edit



## Sample(html\_file)

### Enable



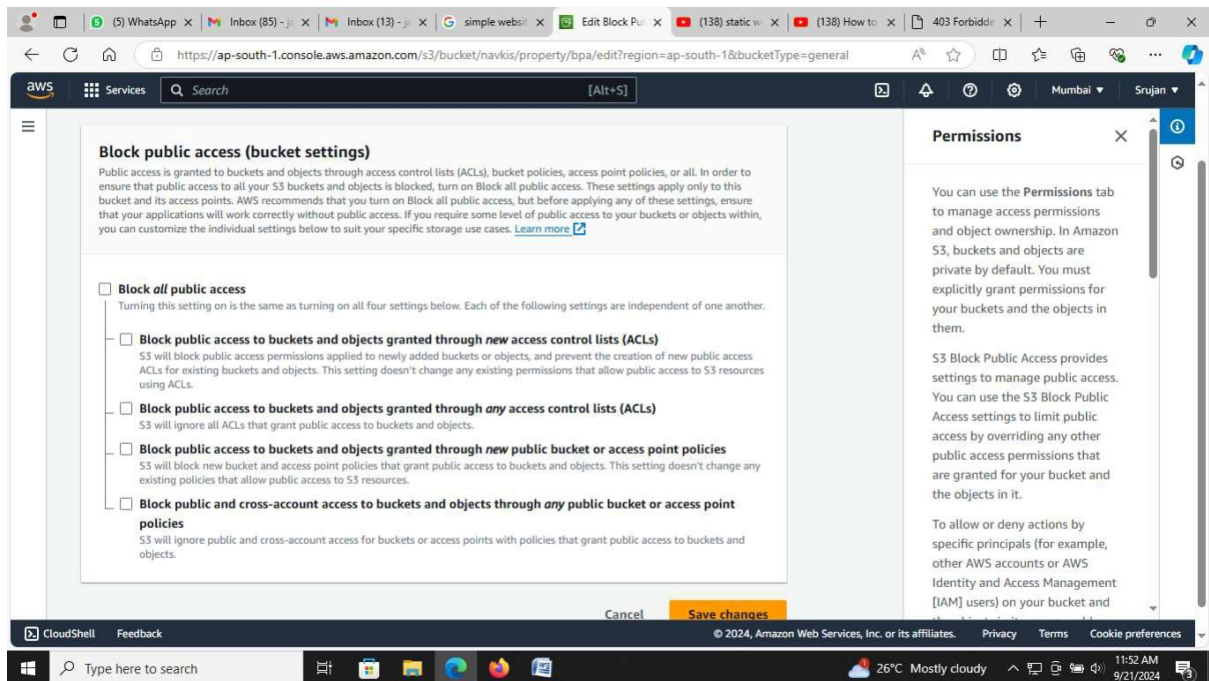


Save

Then give permission through permission menu

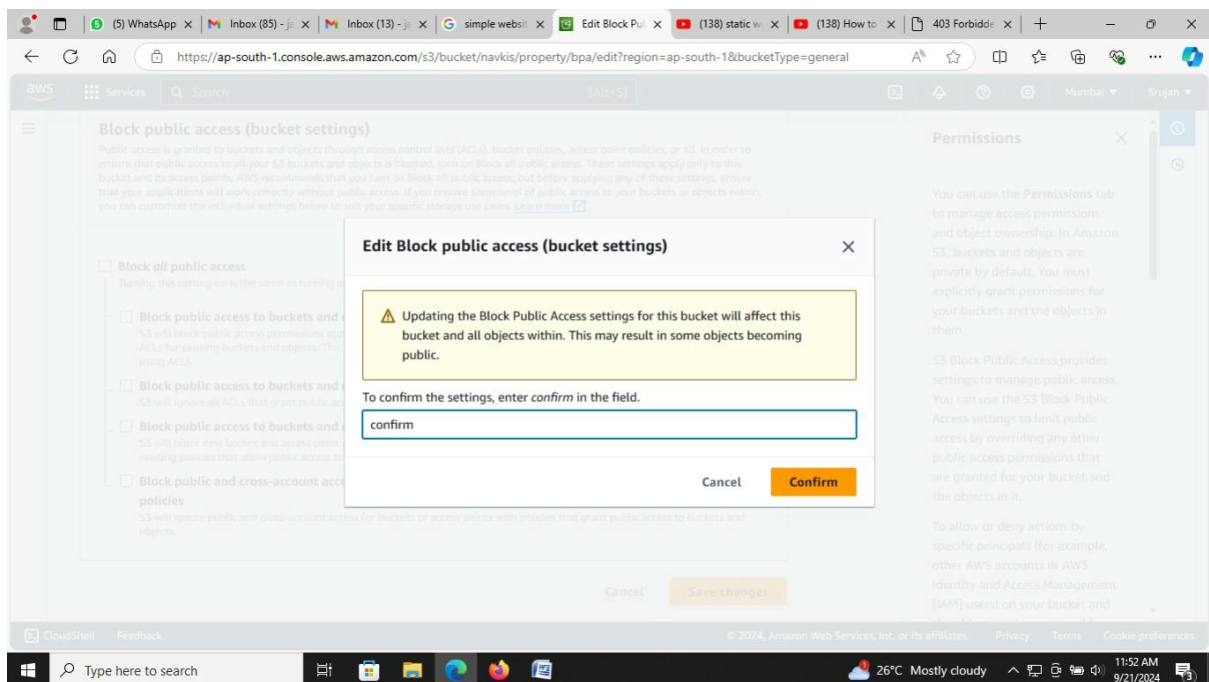
Block public access

Edit→uncheck the button



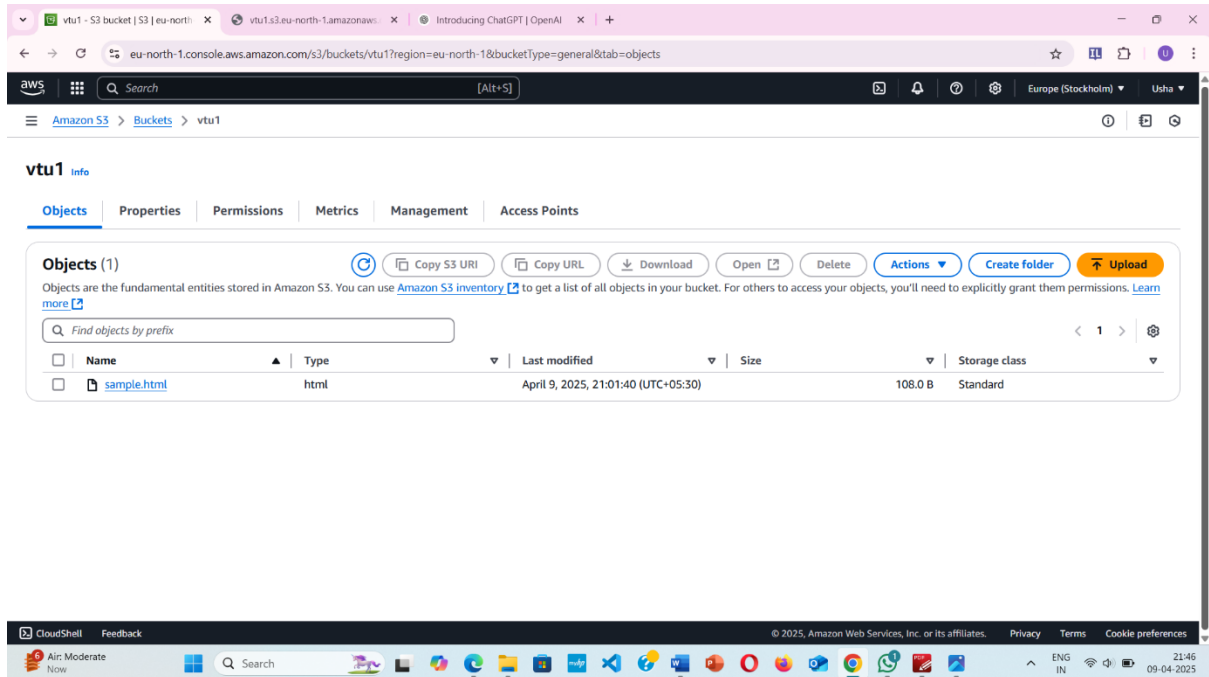
Then save

Confirm

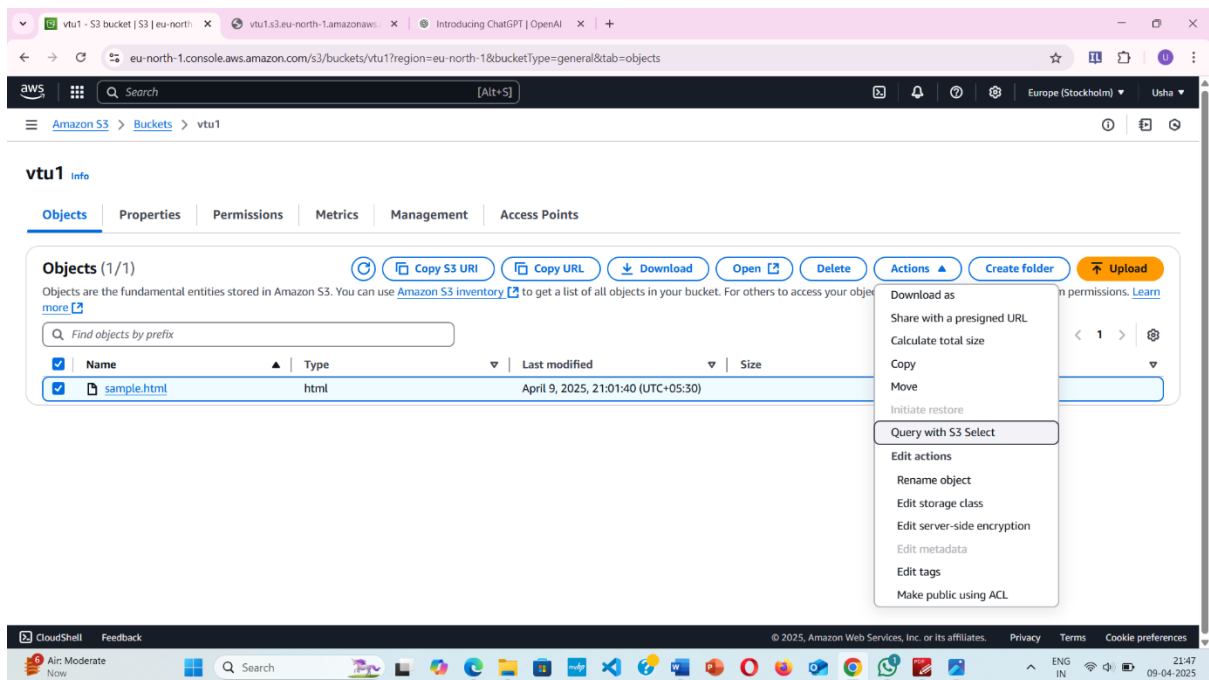


## All objects to public accessible

## Select the objects-check box enable it



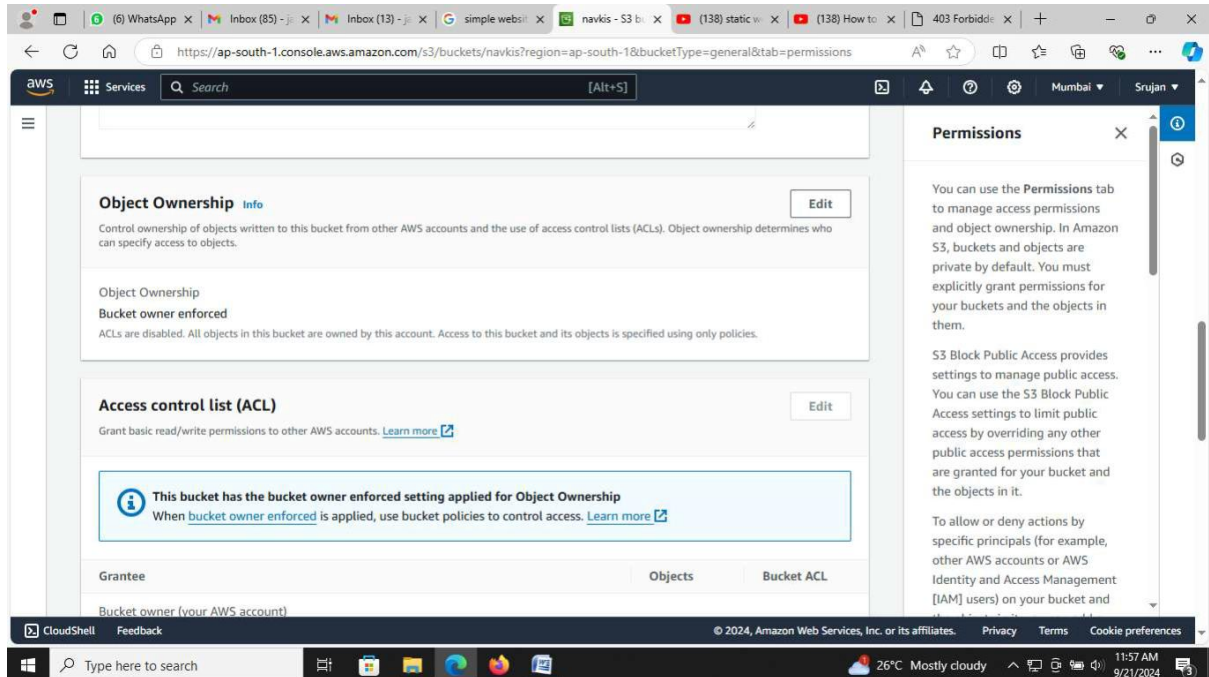
## Then go to the actions and check it



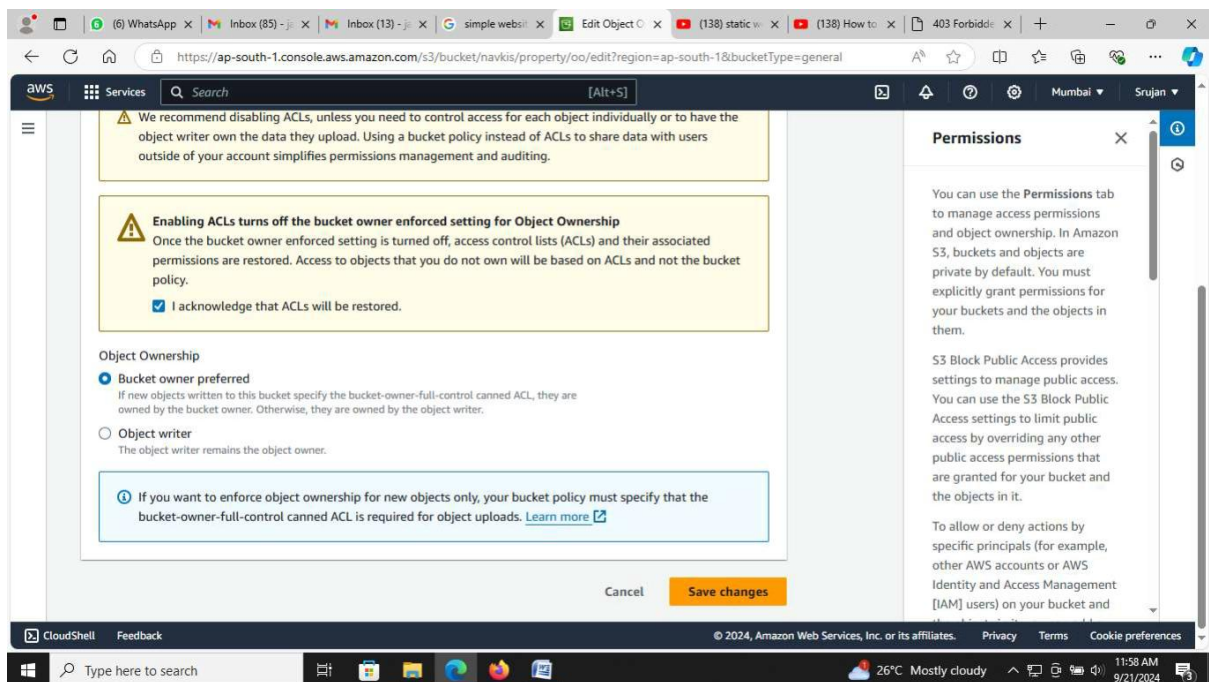


## Public option is disabled

Go to permissions → object ownership → edit

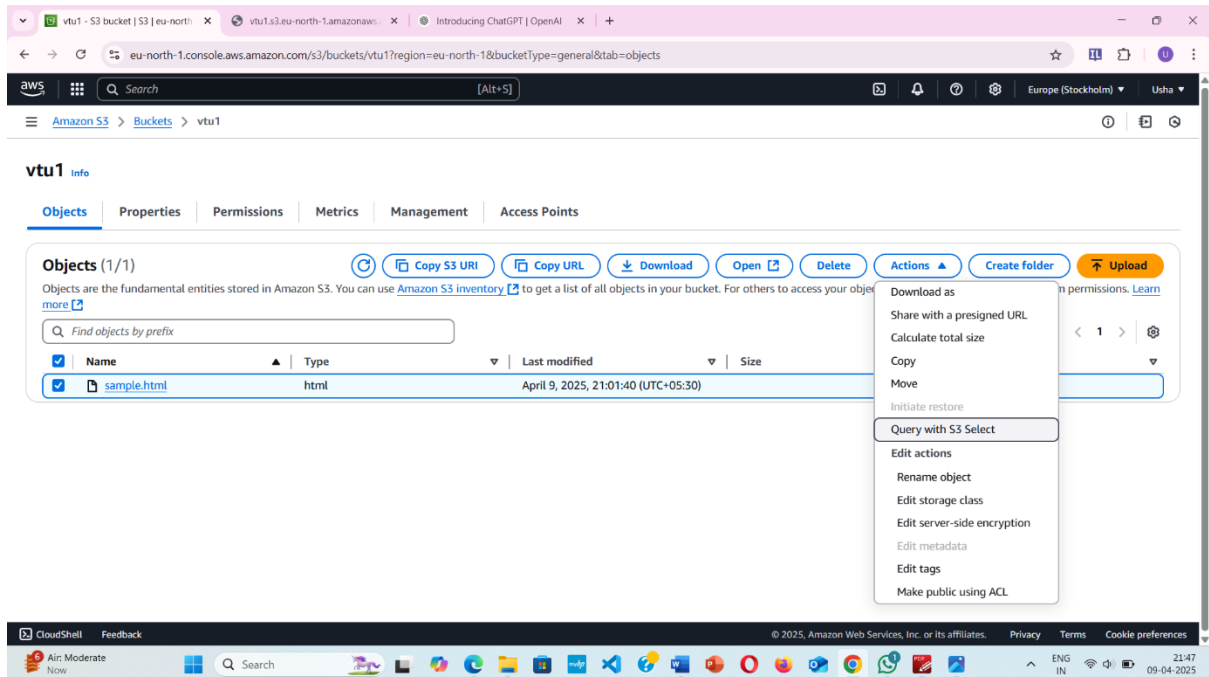


## Acl access control list enable and save it

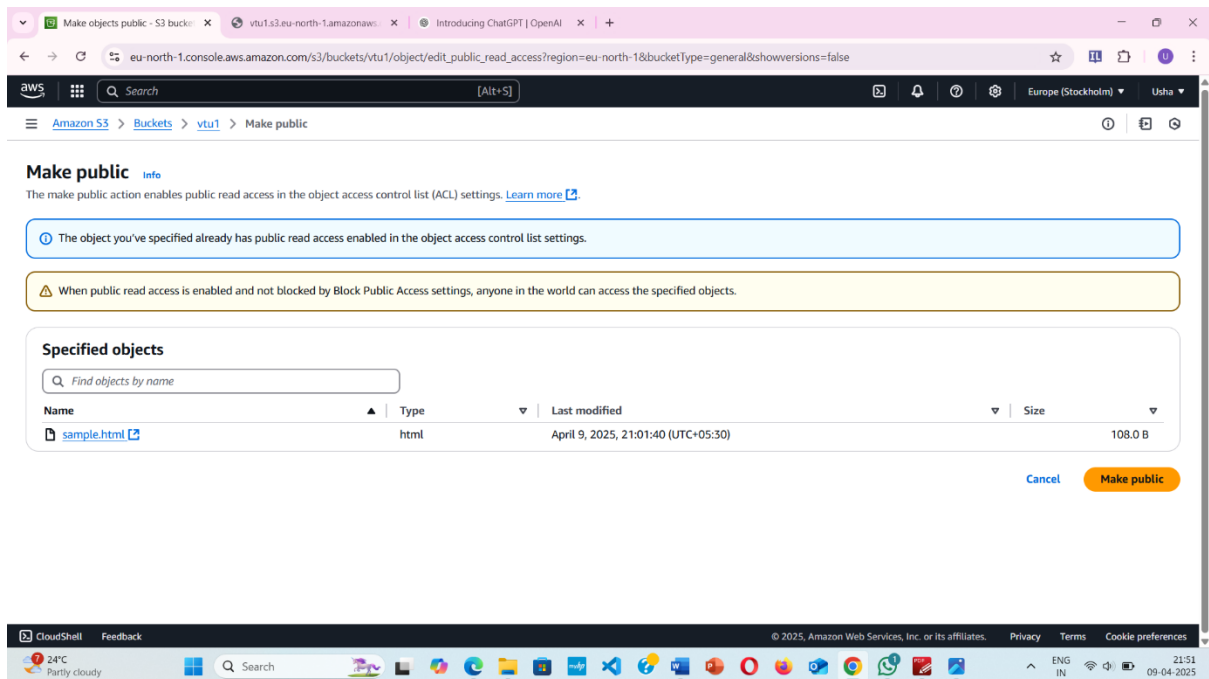


Now check

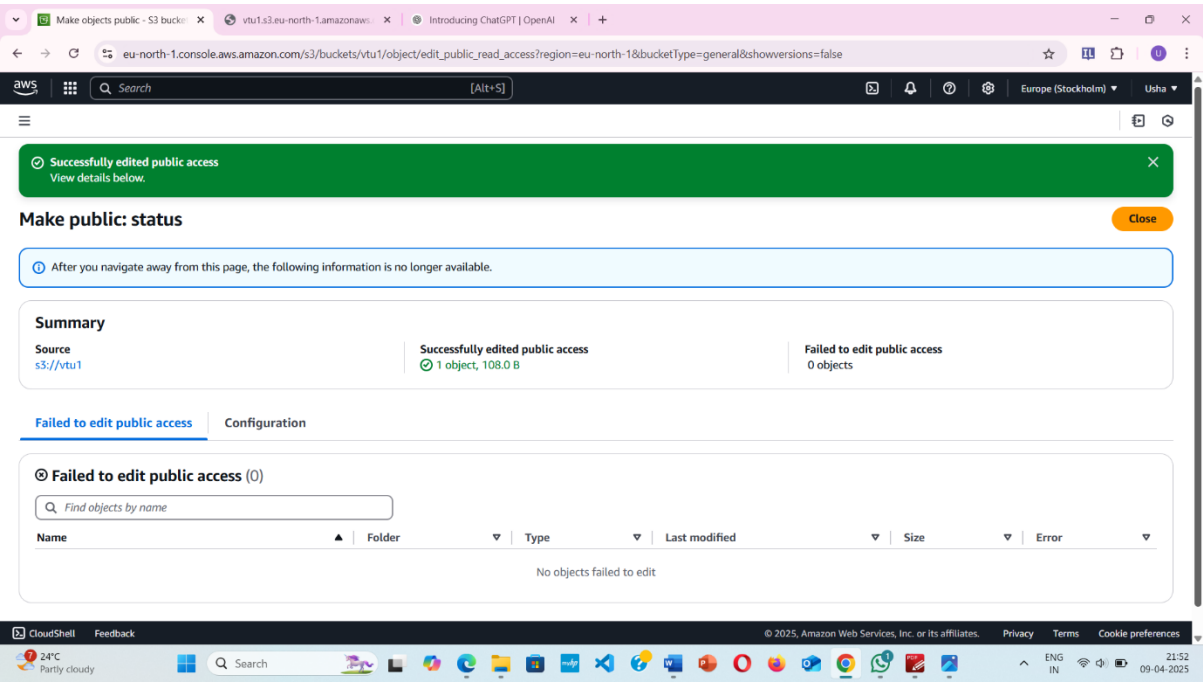
Go to objects→select all objects→check actions→



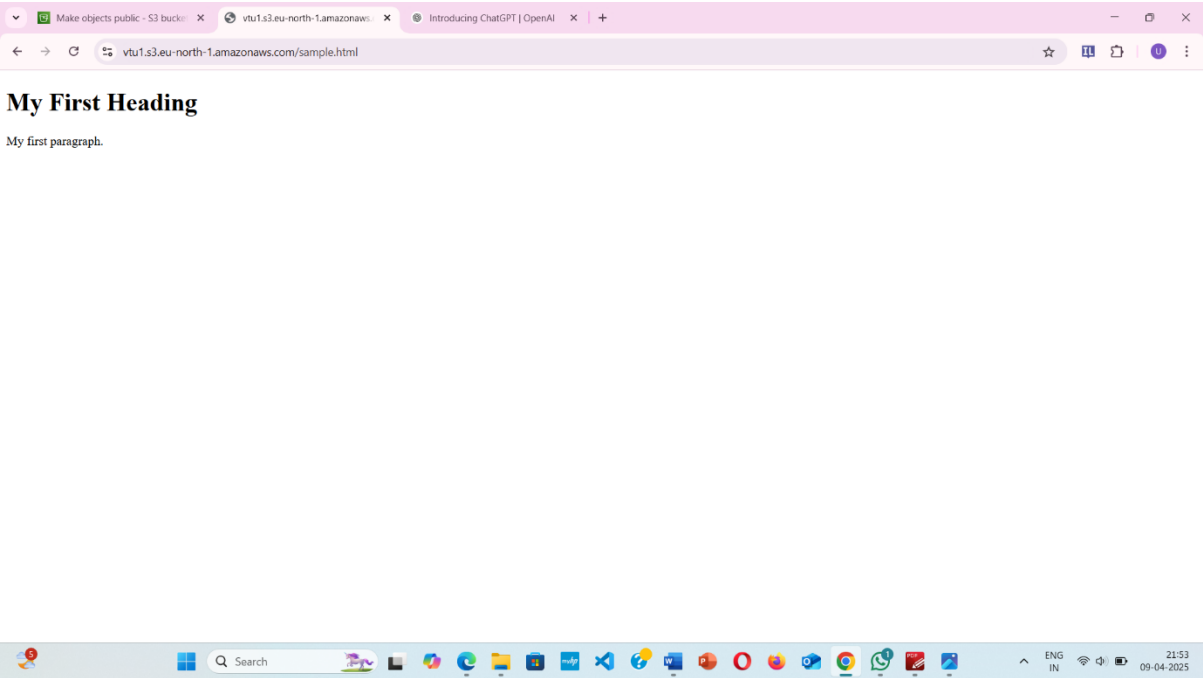
Click on make public using ACL



## Click on make public



## Refresh the website



## Hosted static website through AWS using s3.