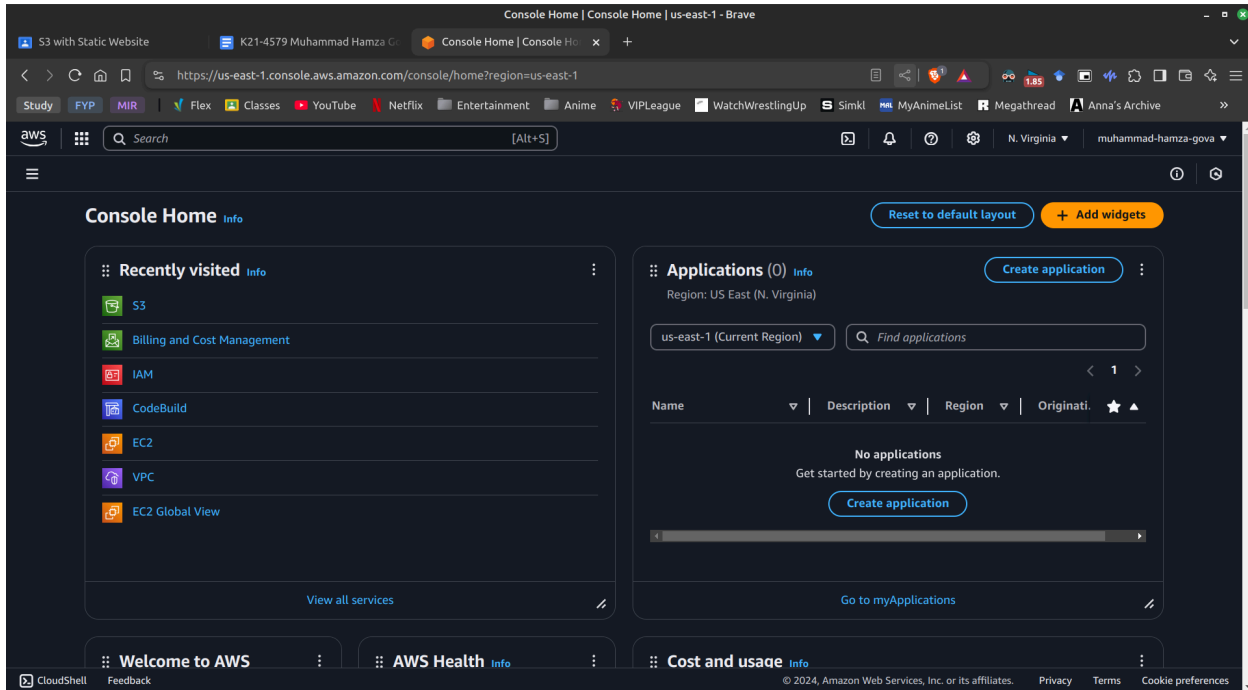


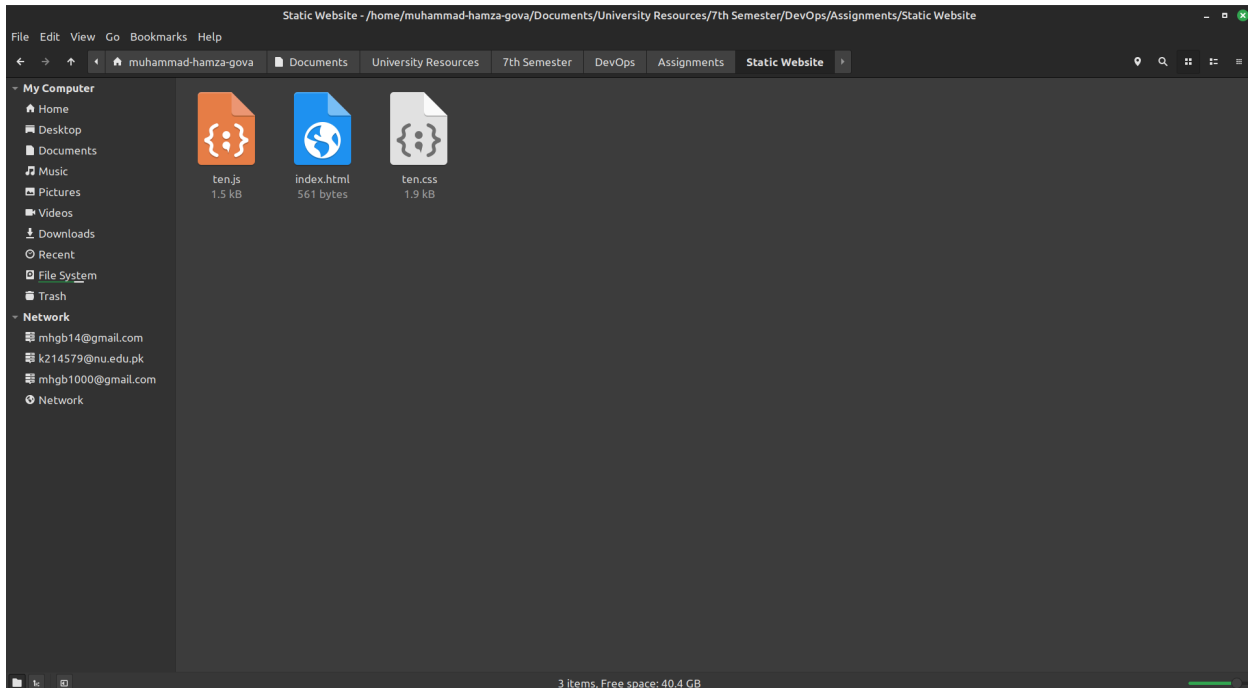
# Hosting a Static Website on AWS S3

## 1. Prerequisites

- **AWS Account**

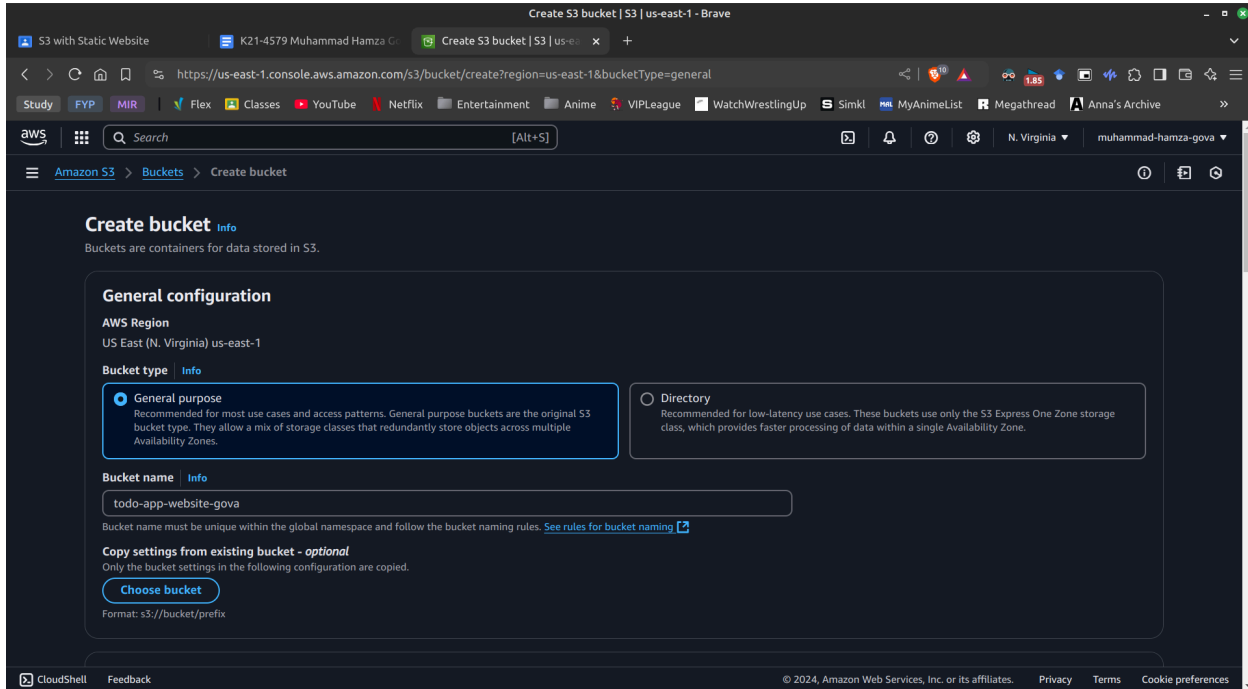


- **Website files: index.html, ten.css, ten.js**

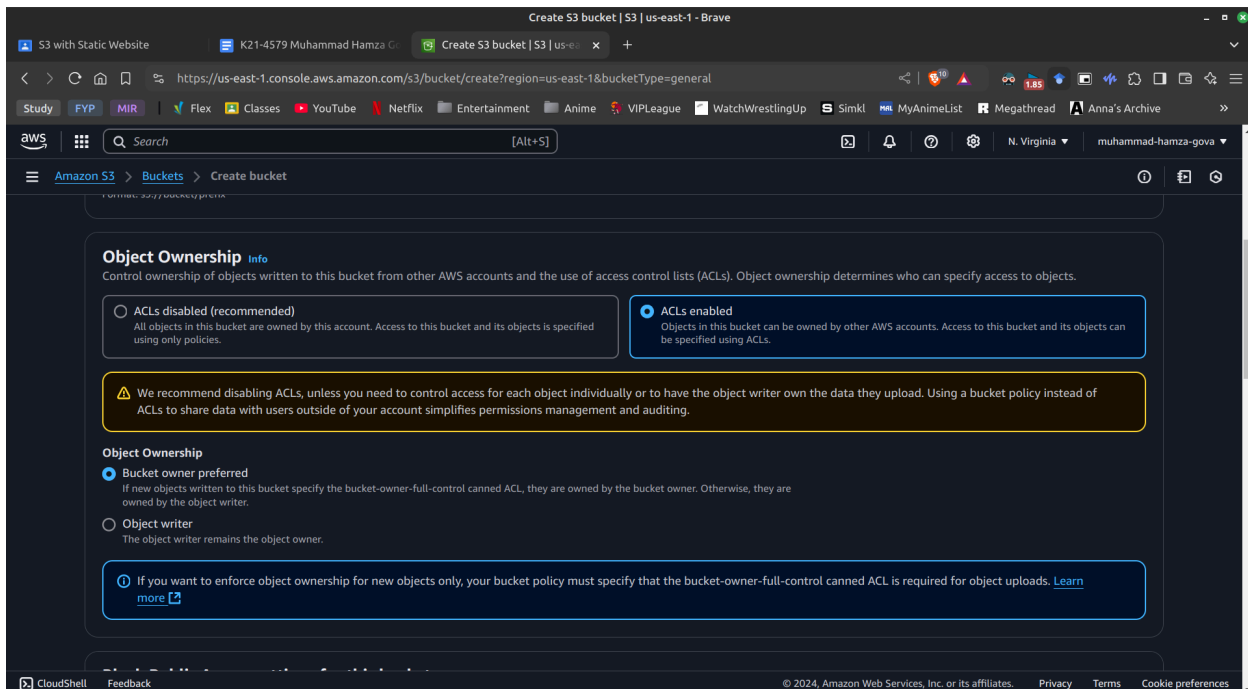


## 2. Create an S3 Bucket

- Open AWS Management Console
- Navigate to S3 service
- Click "Create bucket"
- Choose a globally unique bucket name (todo-app-website-gova)



### e. In the "Object Ownership" section, select "ACLs enabled"



## f. Uncheck "Block all public access"

**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.

## g. Enable public access for website hosting

## h. Click "Create bucket"

**Successfully created bucket "todo-app-website-gova"**  
To upload files and folders, or to configure additional bucket settings, choose [View details](#).

**Account snapshot - updated every 24 hours** [All AWS Regions](#) [View Storage Lens dashboard](#)  
Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

**General purpose buckets** **Directory buckets**

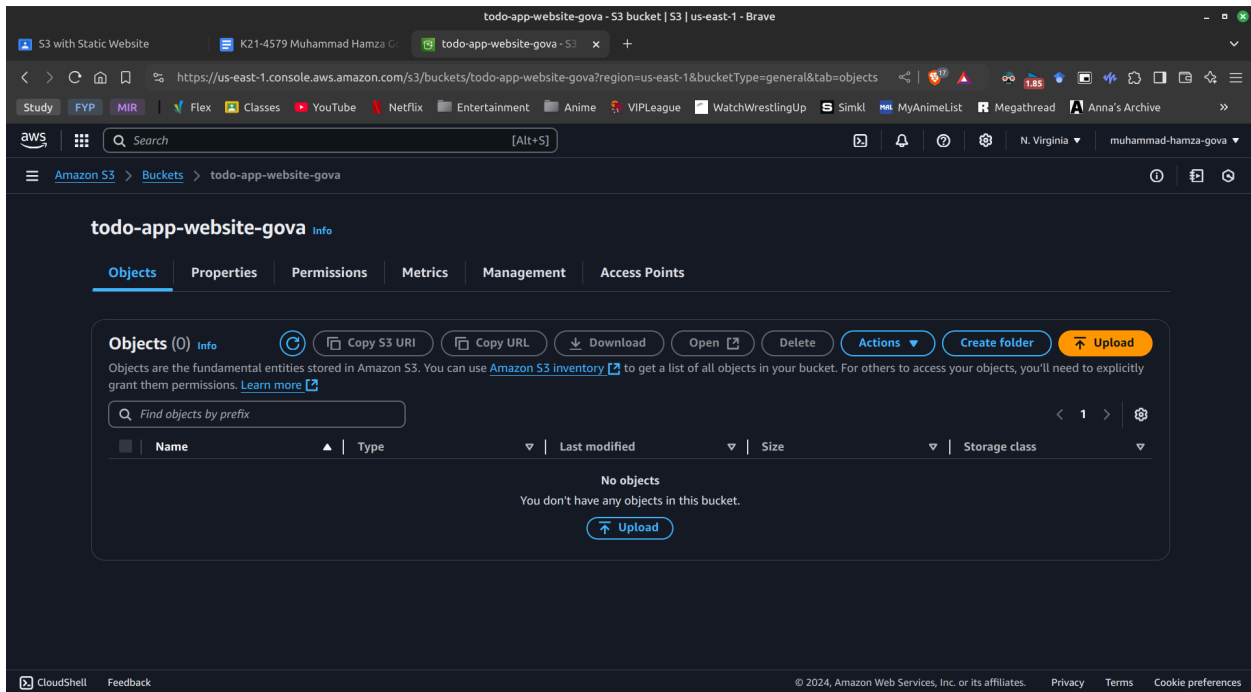
**General purpose buckets (2)** [Info](#) [All AWS Regions](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Buckets are containers for data stored in S3.

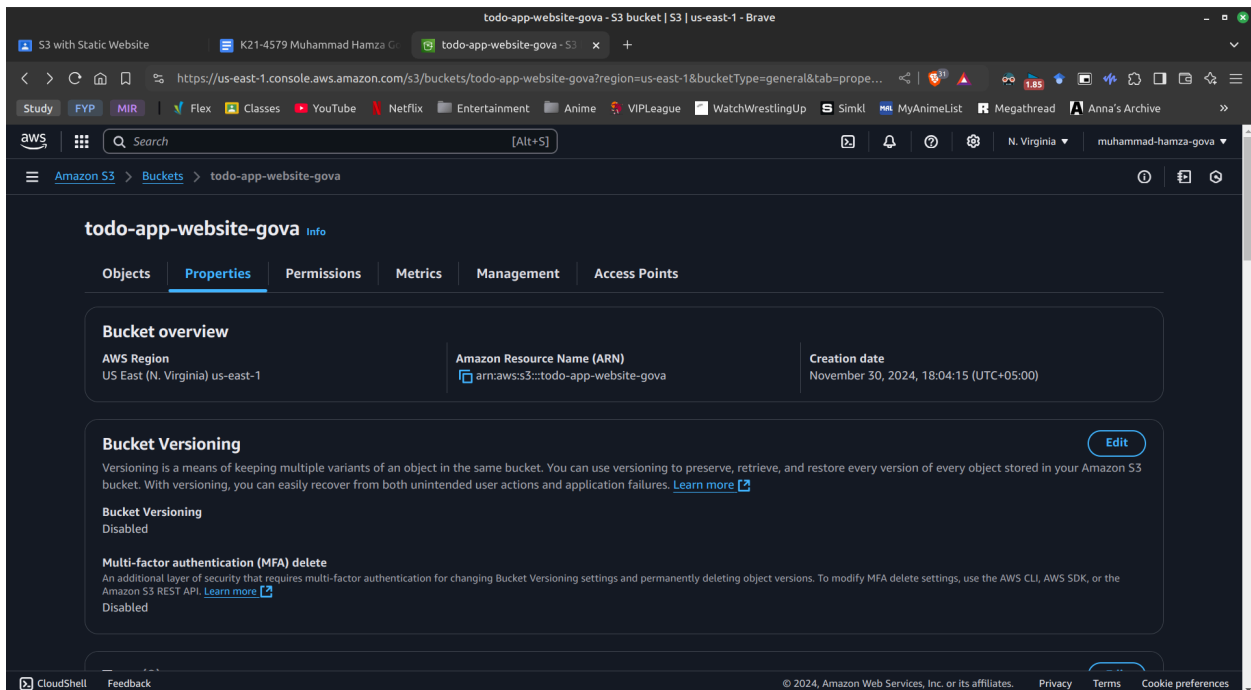
Name	AWS Region	IAM Access Analyzer	Creation date
<a href="#">devops-project-gova</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	November 23, 2024, 10:21:37 (UTC+05:00)
<a href="#">todo-app-website-gova</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	November 30, 2024, 18:04:15 (UTC+05:00)

### 3. Configure Bucket for Static Website Hosting

#### a. Select your newly created bucket



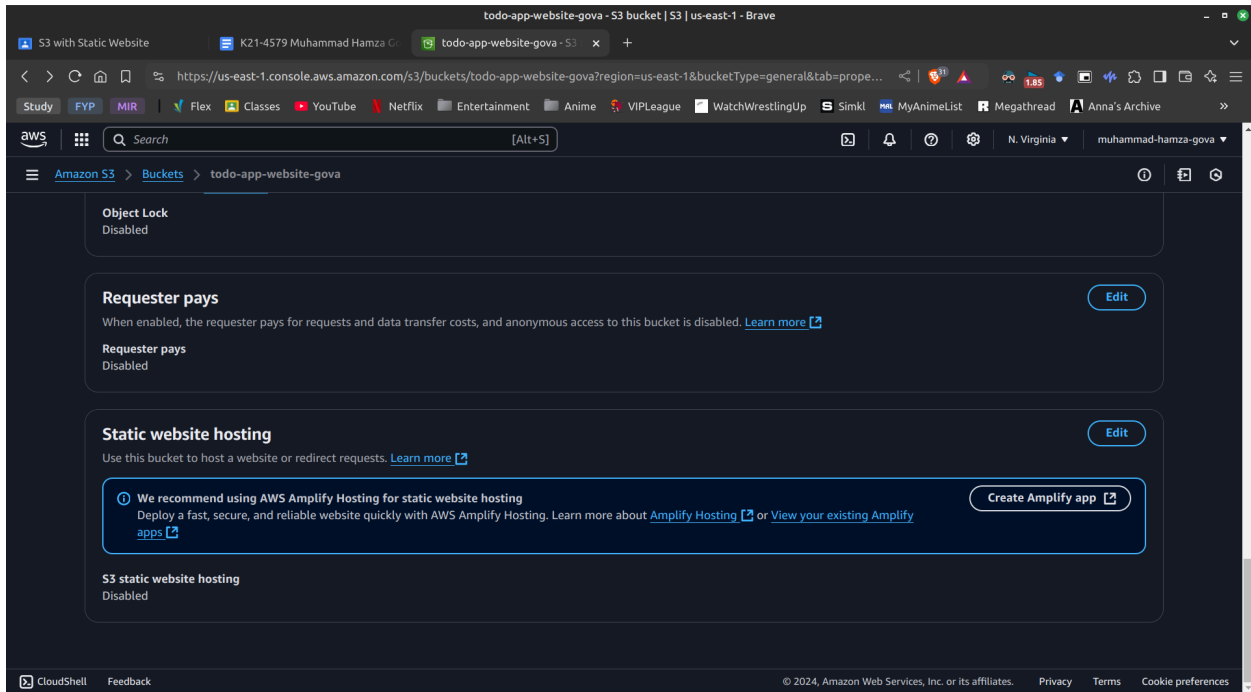
#### b. Go to "Properties" tab



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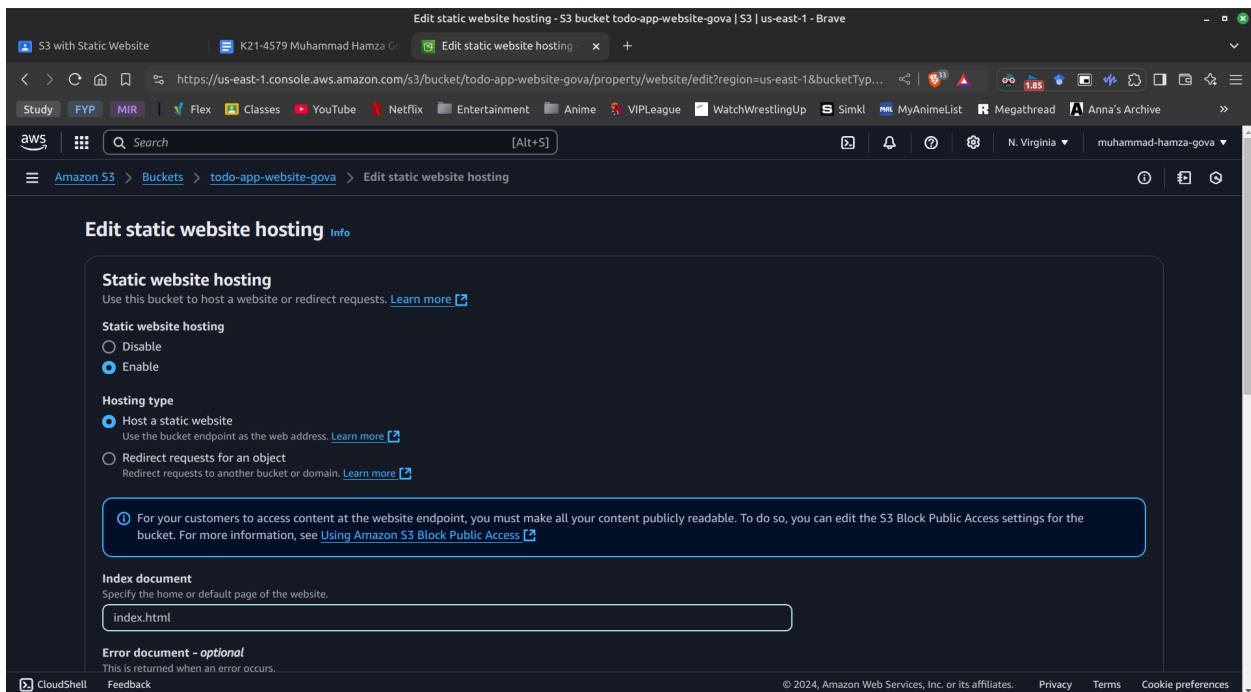
c. Scroll to "Static website hosting" section



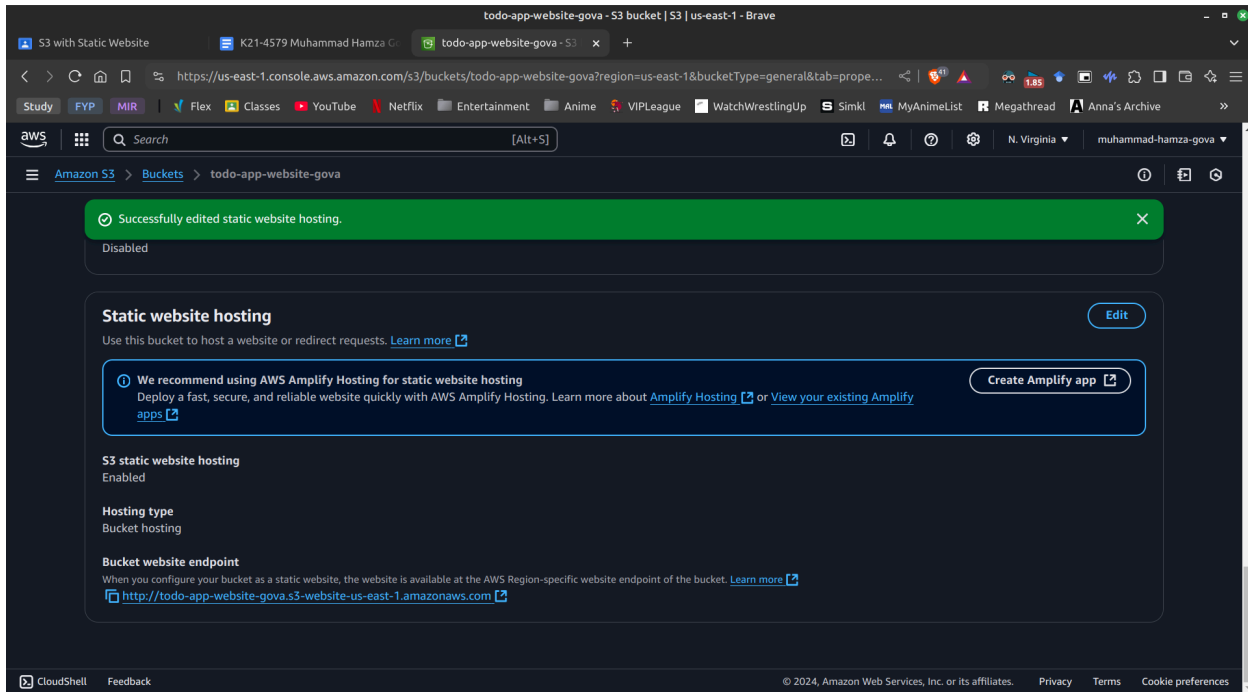
d. Click "Edit"

e. Select "Enable"

f. Set "Index document" to "index.html"



## g. Save changes



Successfully edited static website hosting.

Static website hosting

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

We recommend using **AWS Amplify Hosting for static website hosting**. Deploy a fast, secure, and reliable website quickly with AWS Amplify Hosting. Learn more about [Amplify Hosting](#) or [View your existing Amplify apps](#). [Create Amplify app](#)

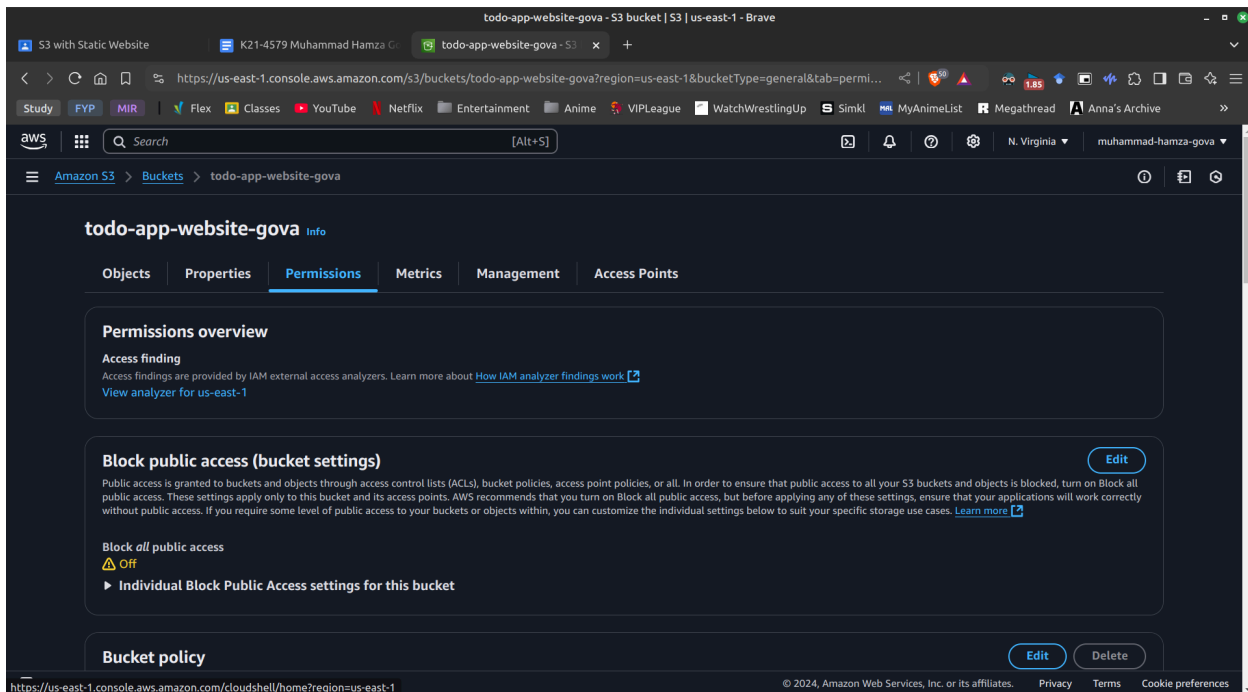
**S3 static website hosting**  
Enabled

**Hosting type**  
Bucket hosting

**Bucket website endpoint**  
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)  
<http://todo-app-website-gova.s3-website-us-east-1.amazonaws.com>

## 4. Set Bucket Policy for Public Access

## a. Go to "Permissions" tab



todo-app-website-gova

Objects Properties **Permissions** Metrics Management Access Points

**Permissions overview**

**Access finding**  
Access findings are provided by IAM external access analyzers. Learn more about [How IAM analyzer findings work](#)  
[View analyzer for us-east-1](#)

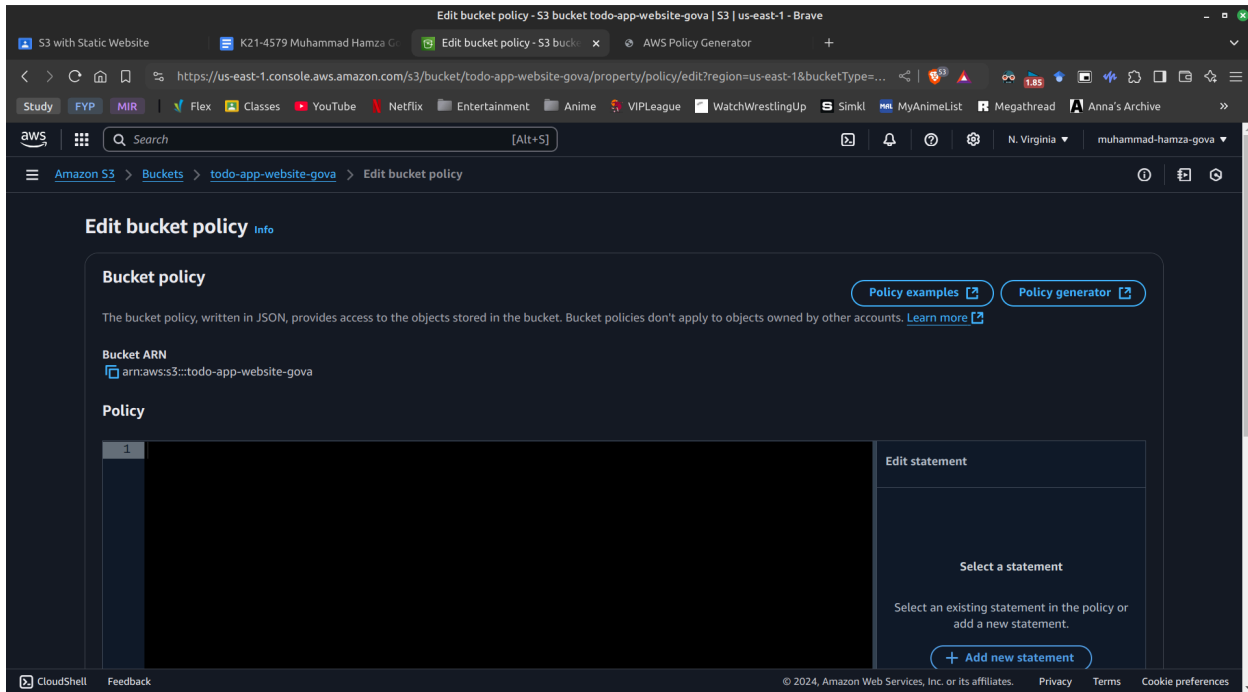
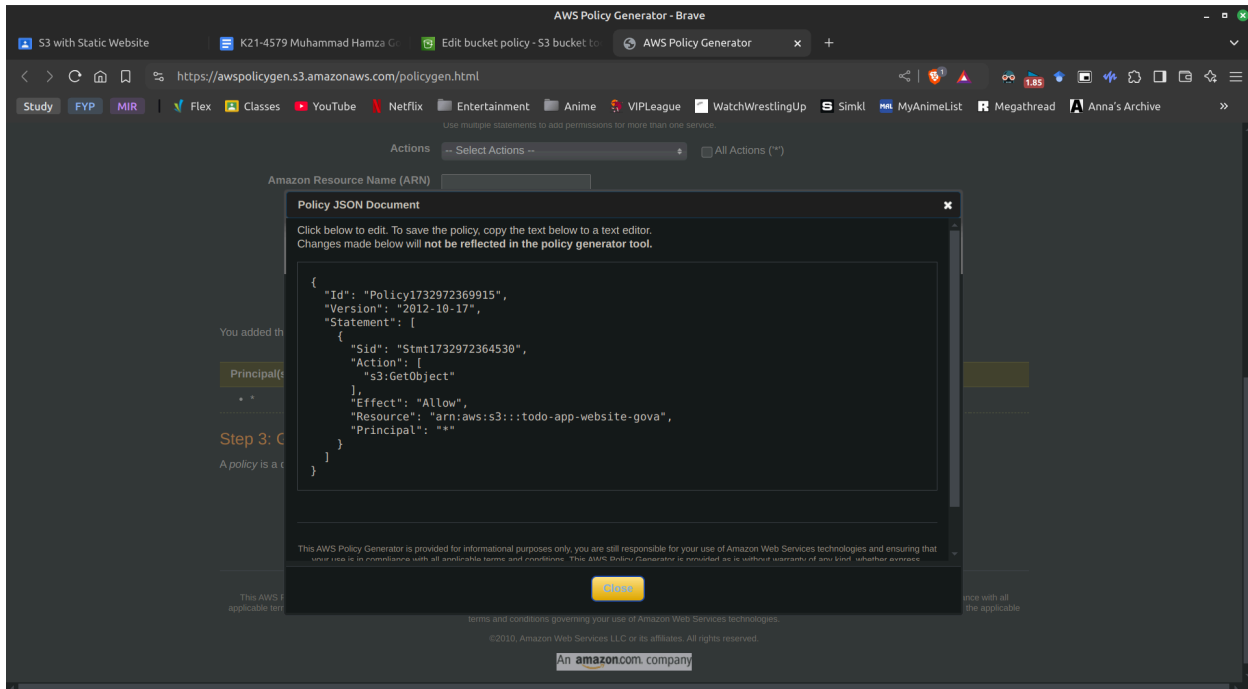
**Block public access (bucket settings)** [Edit](#)

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](#)

Block all public access  
**Off**

► Individual Block Public Access settings for this bucket

**Bucket policy** [Edit](#) [Delete](#)

**b. Edit "Bucket policy"****c. Paste this policy**

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The screenshot shows the AWS console interface for editing a bucket policy. The breadcrumb navigation is 'Amazon S3 > Buckets > todo-app-website-gova > Edit bucket policy'. The page title is 'Bucket policy'. Below the title, there's a description: 'The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)'. There are two buttons: 'Policy examples' and 'Policy generator'. The 'Bucket ARN' is 'arn:aws:s3:::todo-app-website-gova'. The 'Policy' section shows a JSON policy with a single statement 's3:GetObject' with 'Effect': 'Allow' and 'Principal': '\*'. The right sidebar has an 'Edit statement' section with a 'Select a statement' prompt and an 'Add new statement' button.

```
1 {
2   "Id": "Policy1732972369915",
3   "Version": "2012-10-17",
4   "Statement": [
5     {
6       "Sid": "Stmt1732972364530",
7       "Action": [
8         "s3:GetObject"
9       ],
10      "Effect": "Allow",
11      "Resource": "arn:aws:s3:::todo-app-website-gova/*",
12      "Principal": "*"
13    }
14  ]
15 }
```

## d. Save changes

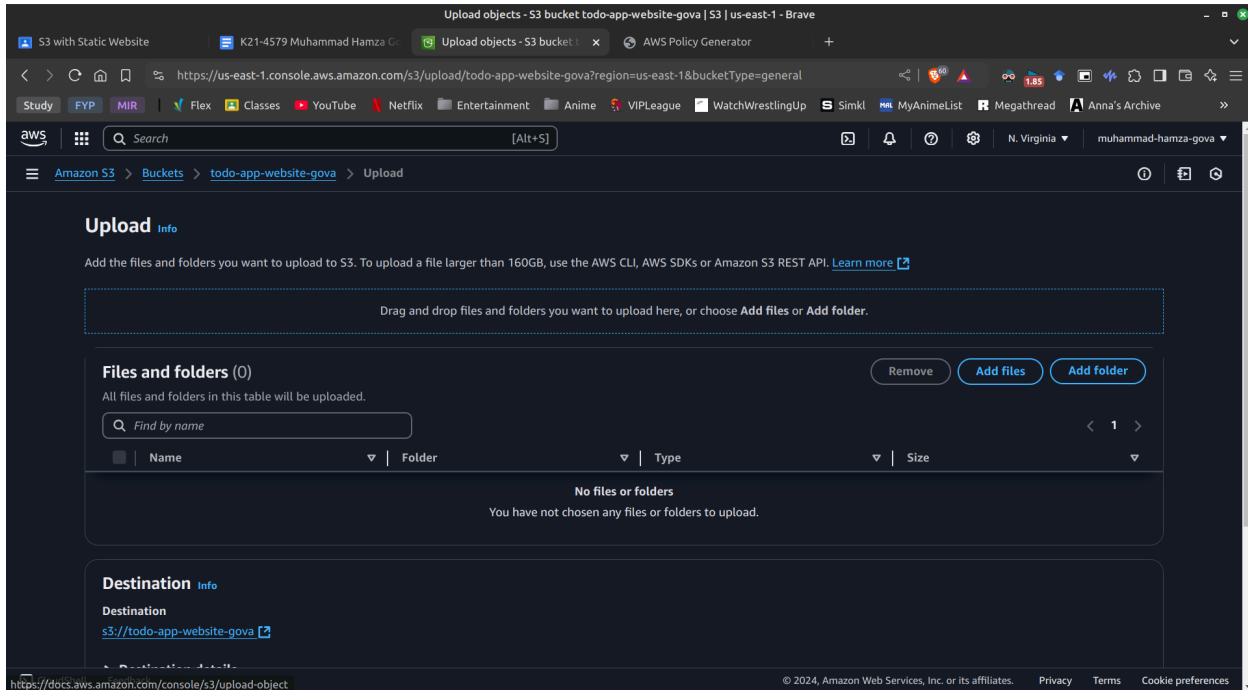
The screenshot shows the AWS console interface after successfully editing the bucket policy. A green notification bar at the top says 'Successfully edited bucket policy.' The breadcrumb navigation is 'Amazon S3 > Buckets > todo-app-website-gova'. The page title is 'Bucket policy'. Below the title, there's a description: 'The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)'. There are two buttons: 'Edit' and 'Delete'. The JSON policy is displayed in a text area with a 'Copy' button. The policy is the same as in the previous screenshot.

```
{
  "Version": "2012-10-17",
  "Id": "Policy1732972369915",
  "Statement": [
    {
      "Sid": "Stmt1732972364530",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::todo-app-website-gova/*"
    }
  ]
}
```

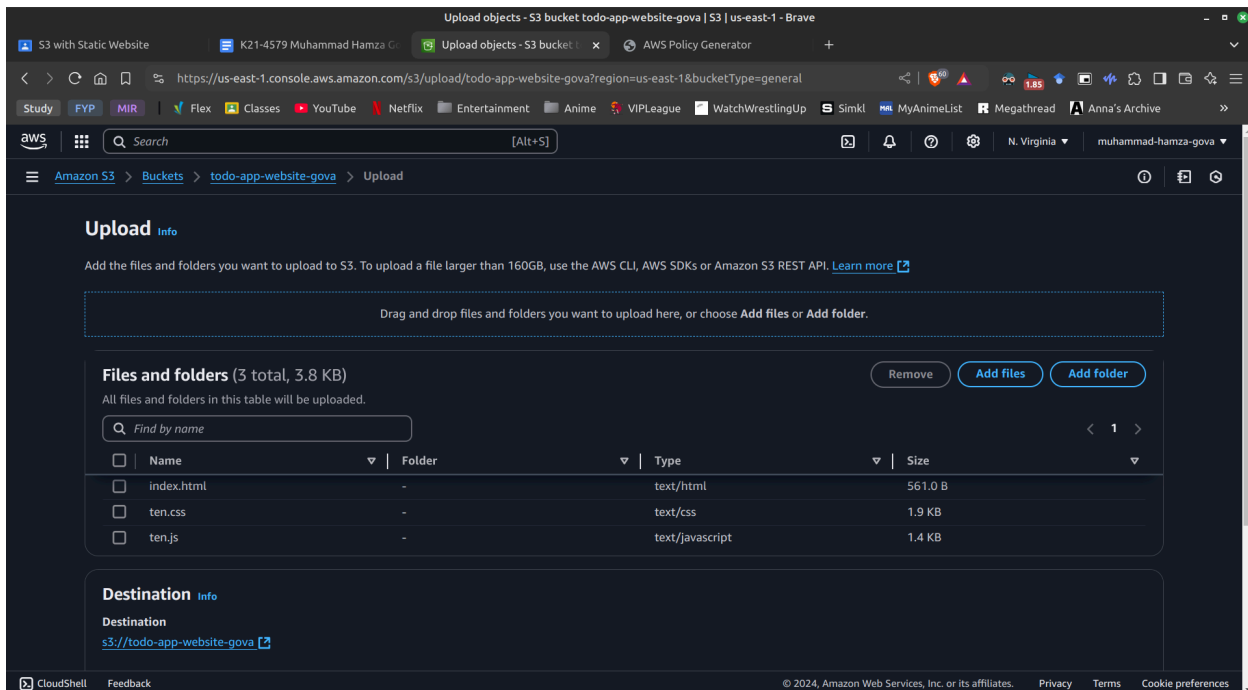


## 5. Upload Website Files using AWS Management Console

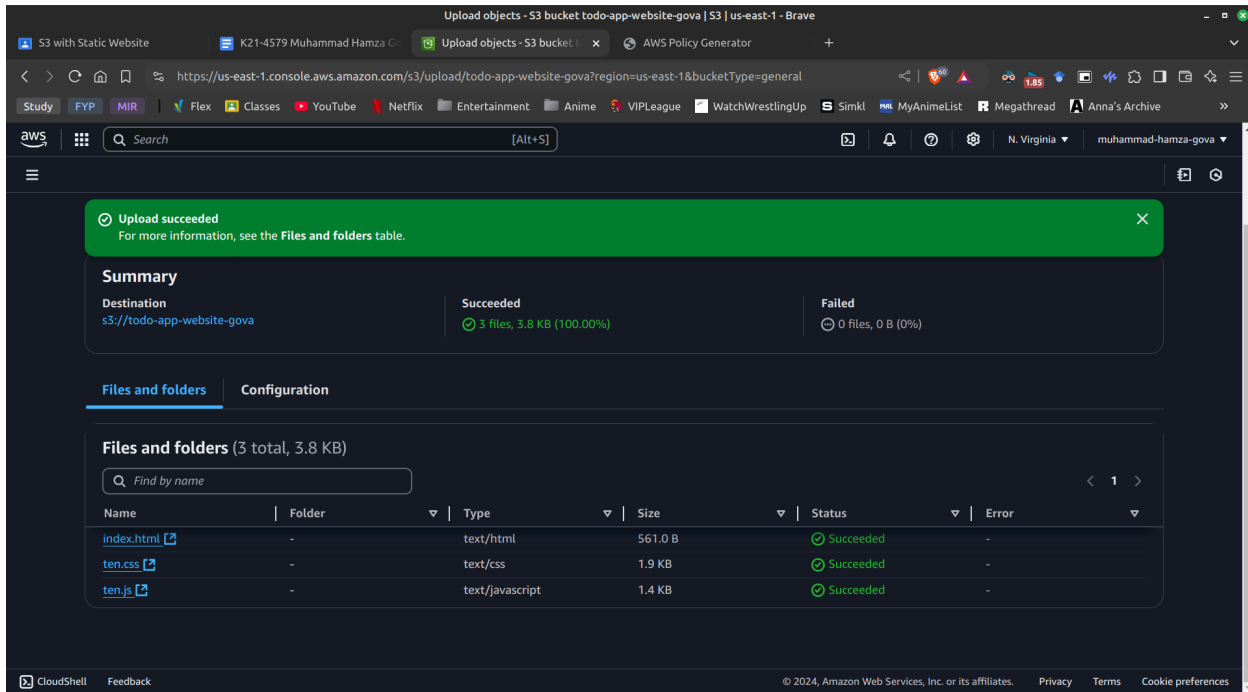
### a. Click "Upload"



### b. Add files: index.html, ten.css, ten.js

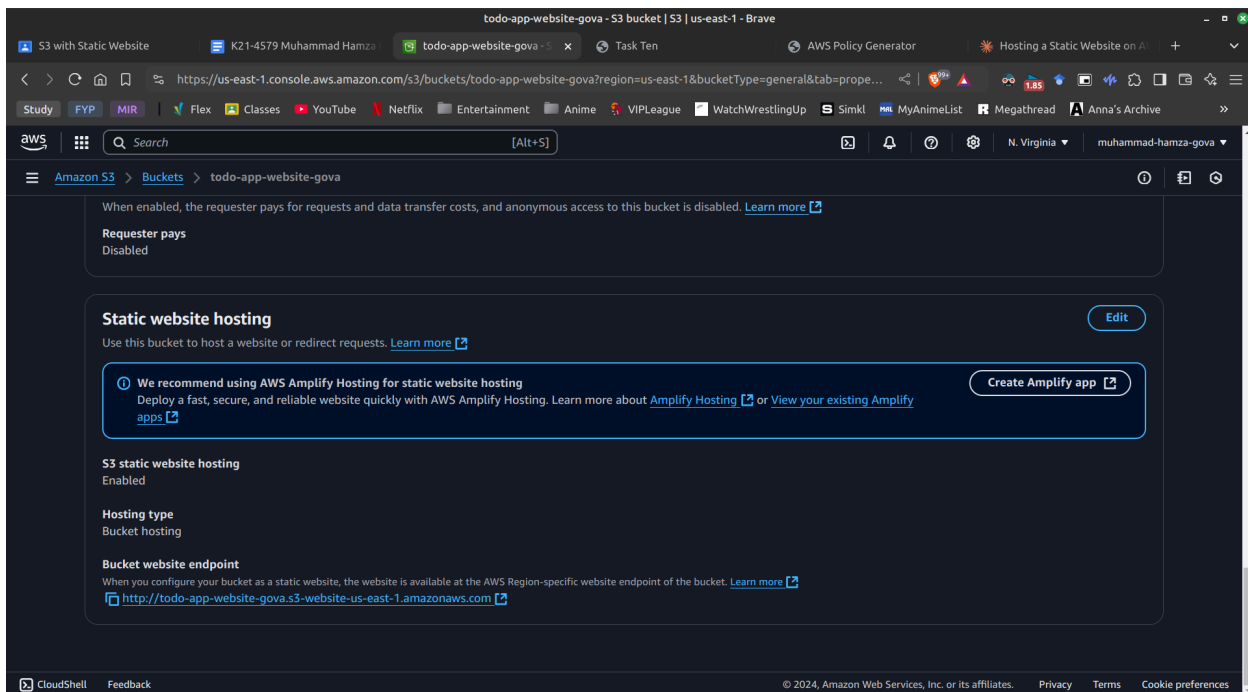


c. Click "Upload"

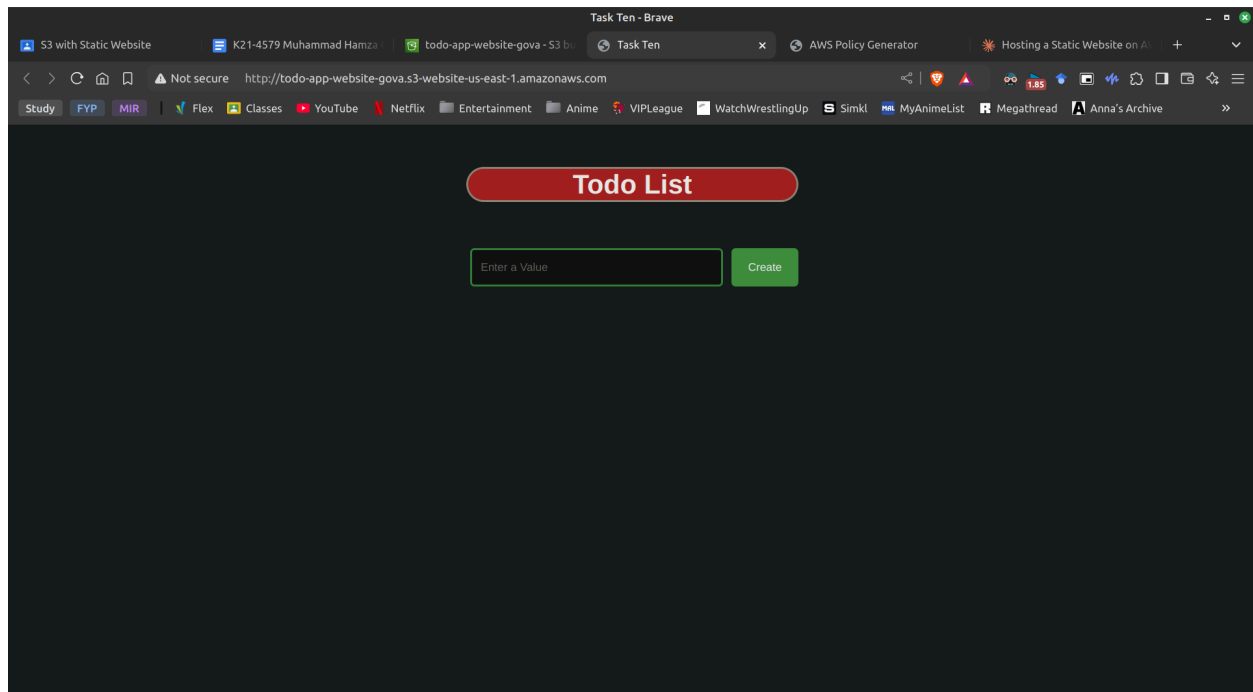


6. Verify Website

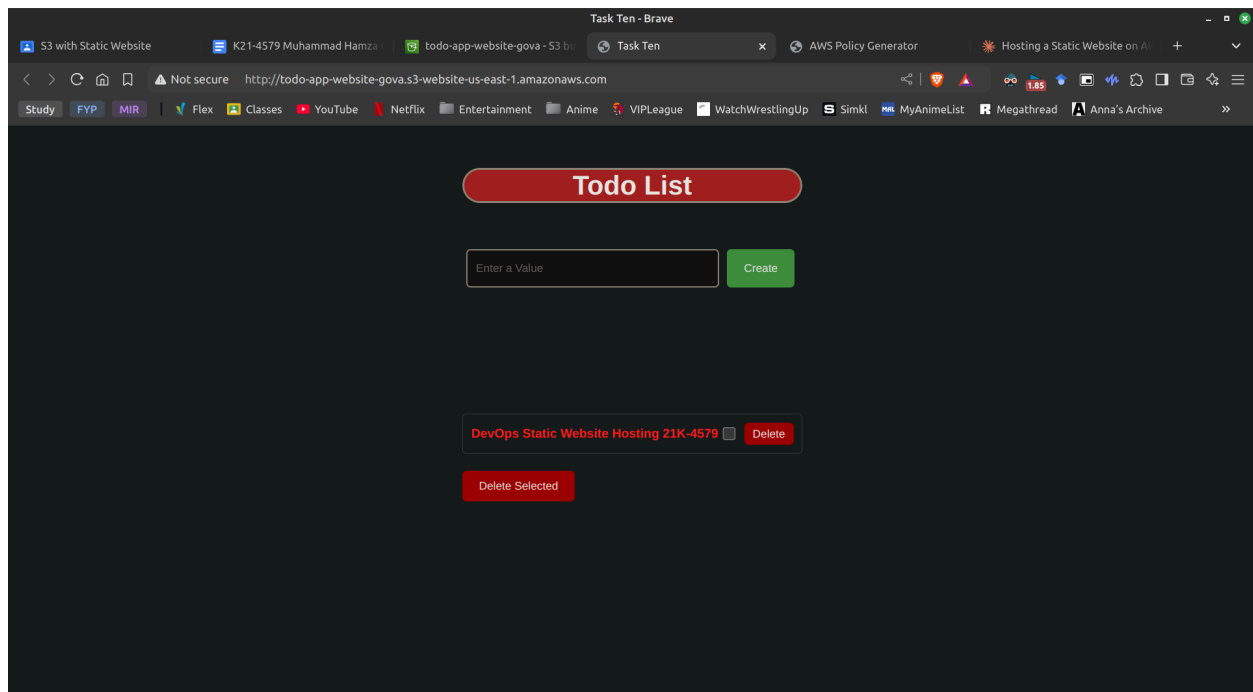
- Go to "Properties" tab
- Scroll to "Static website hosting"



c. Click on the "Bucket website endpoint"



d. Your website should now be live!



Troubleshooting Tips:

- Ensure all files are publicly readable
- Check file names match exactly
- Verify bucket policy allows public read access