DevOps - Project 01

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Host a Static Website on AWS S3 Bucket

Are you looking to host a static website in a simple and cost-effective way? AWS S3 (Simple Storage Service) offers a reliable and scalable solution. In this post, I'll guide you through the steps to host your static website on an S3 bucket.

Step 1: In this step we ensure that we have all files (index.html, css, javaScript etc) or folder ready of our website
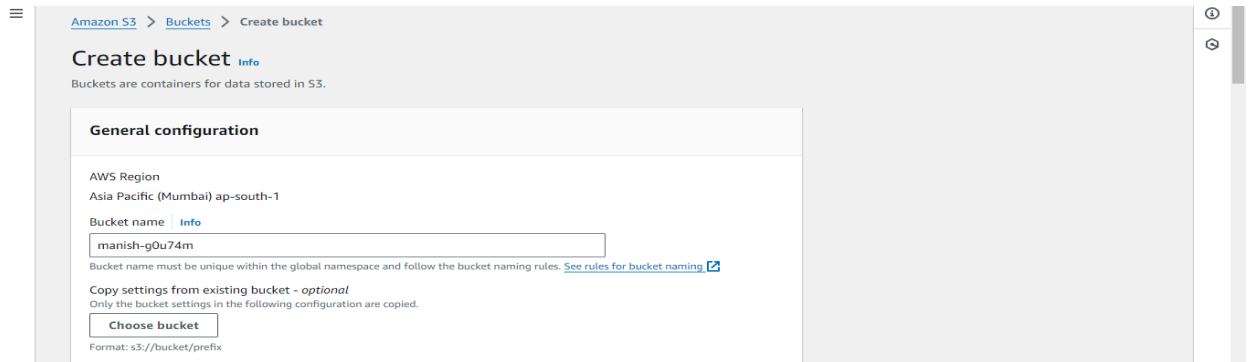
Step 2: Create an S3 Bucket

1. Login to AWS Management Console: Start by logging into your AWS account.
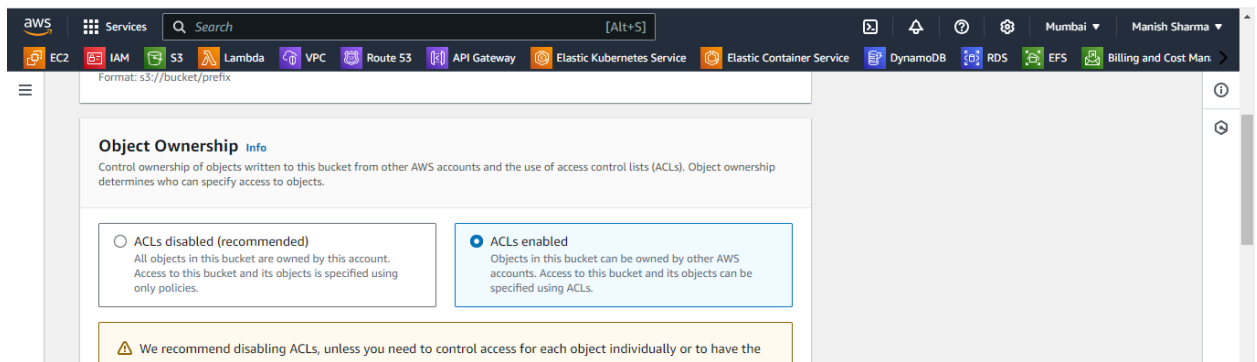2. **Navigate to S3:** In the AWS services menu, find and select 'S3'.
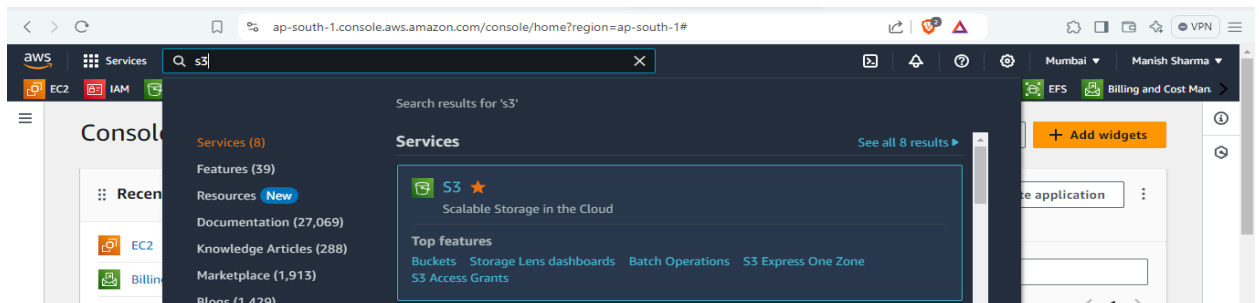
3. **Create a Bucket:** Click on the 'Create bucket' button. Choose a unique bucket name and select your preferred AWS region **mine mumbai region**.
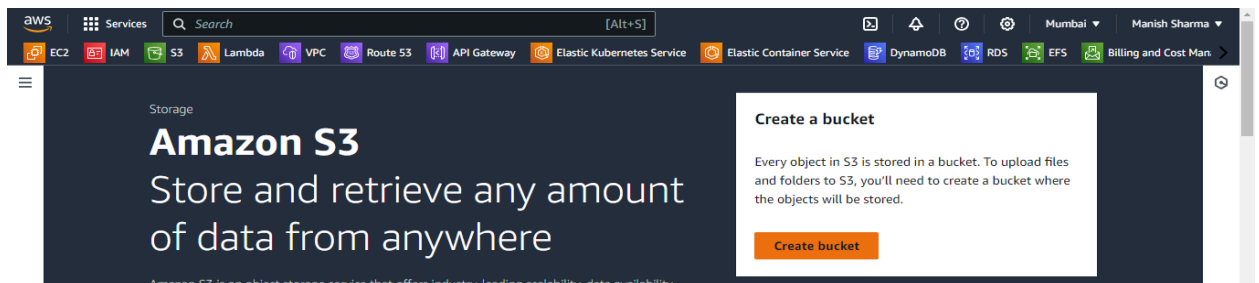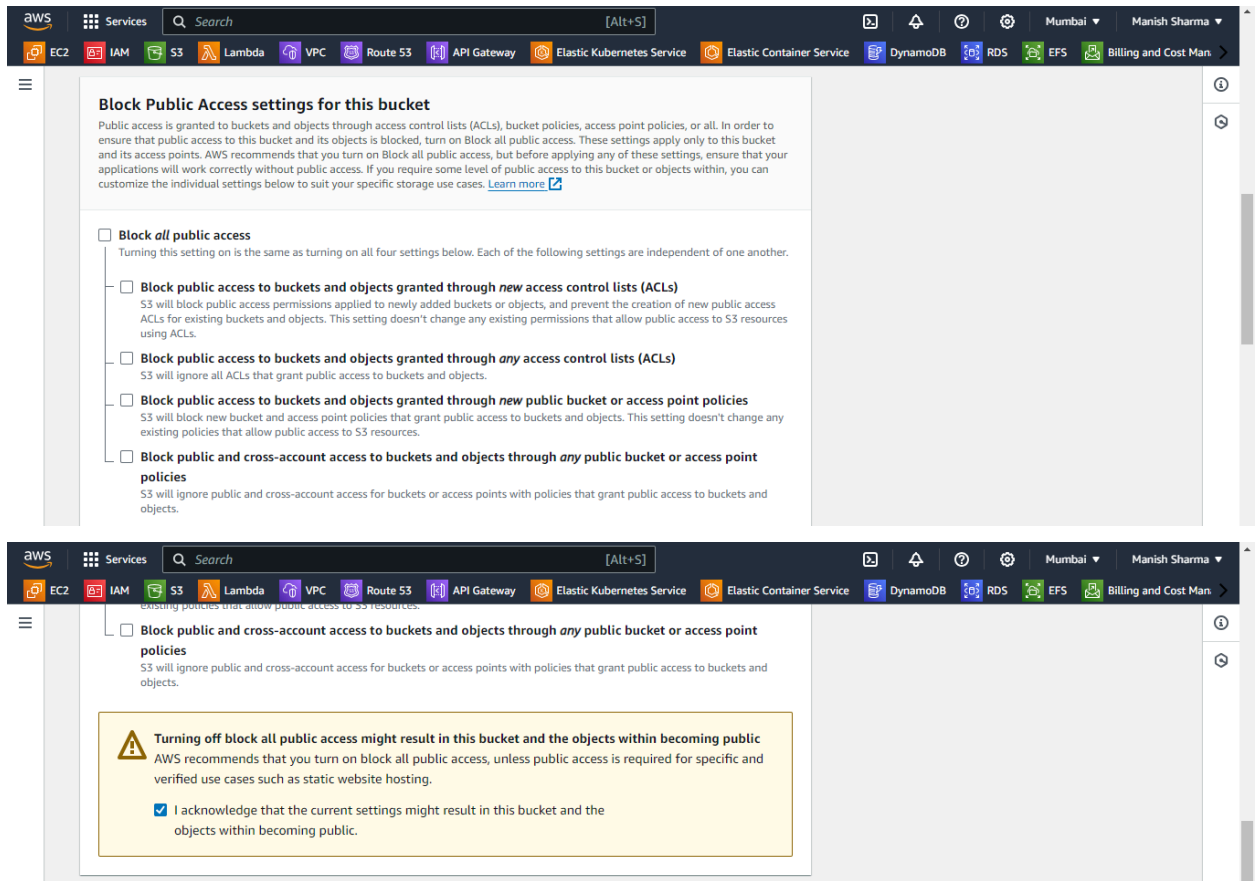
4. Select the ACL enabled Option

5. **Set Permissions:** Make sure to set the bucket's permissions so that it can serve content publicly.
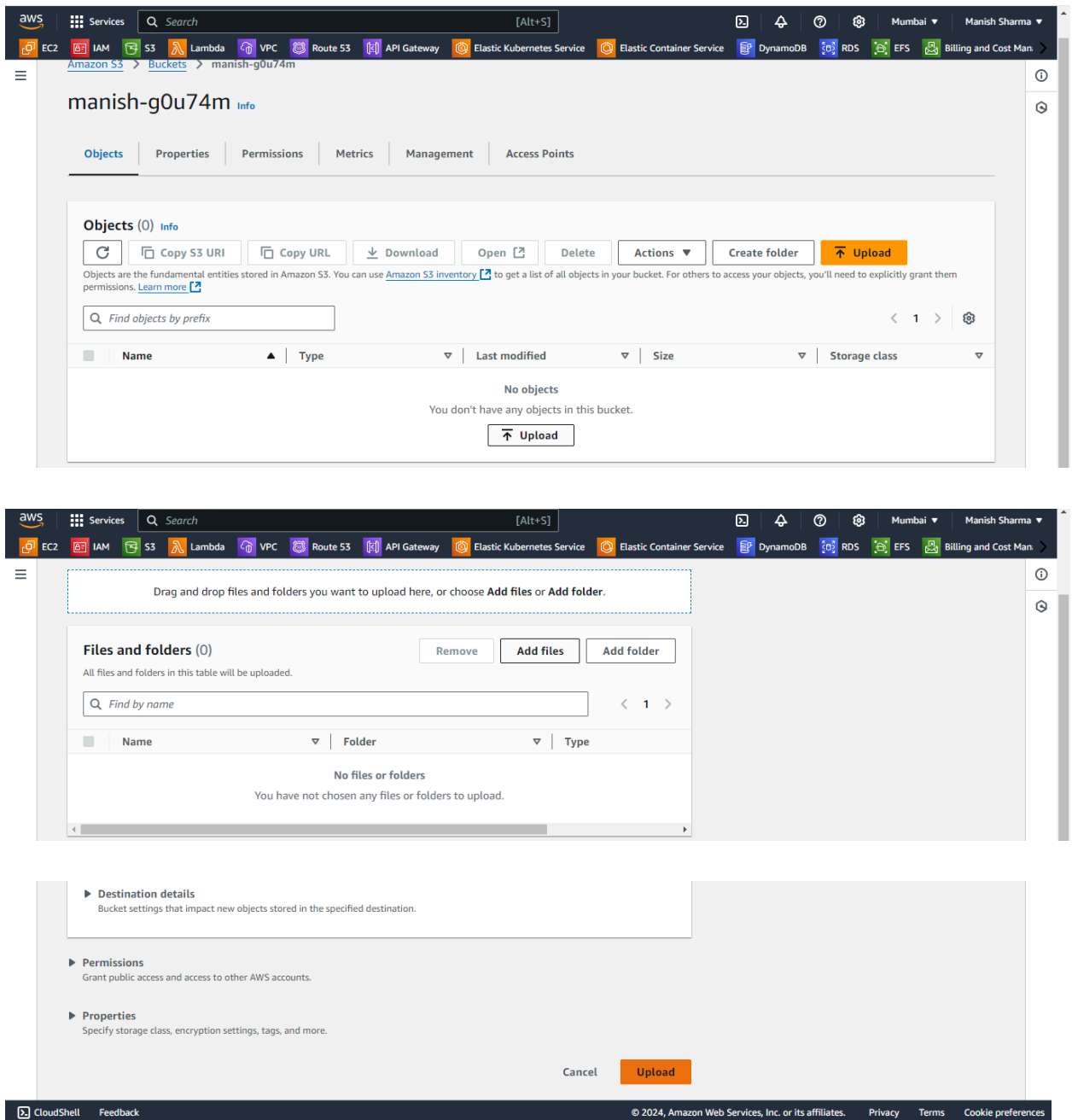
6. After that Click on **Create Bucket** Option.

**Step 3:** In this step we upload our website files

   Access Your Bucket: Once the bucket is created, open it and click on upload files option and Drag and Drop All files or folders of our website.

   After that click on upload Option.

Step 4 - After uploading all the files we need to give permission to Access publicly all files because a static website requires public access, you need to make the objects public.

Select all the files & folder and click on **Actions** and **make public acl** enable and click on **Make Public** Option.
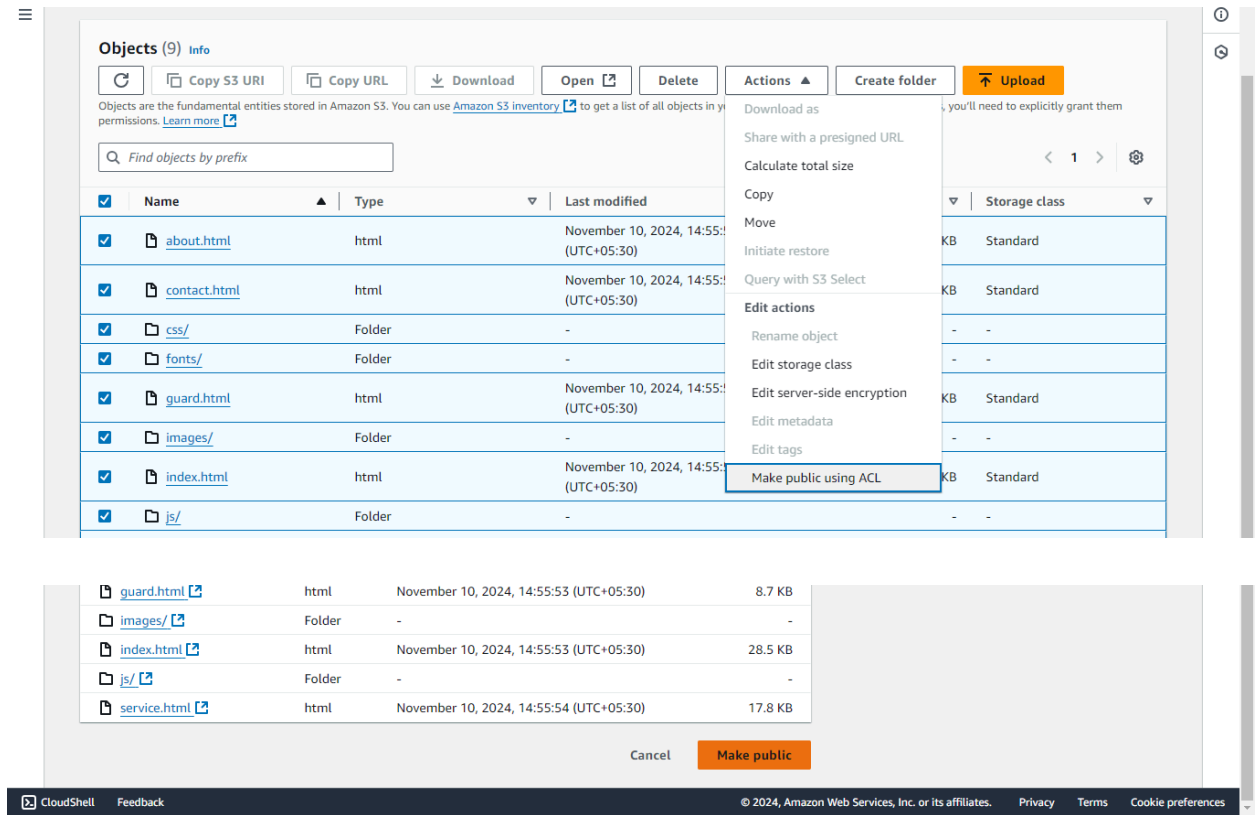
Step 5 - In this Step we will set the bucket policy for Allow public access so gon on the Permission tab in our bucket and scroll down we will see **Bucket Policy option** click on **Edit.**
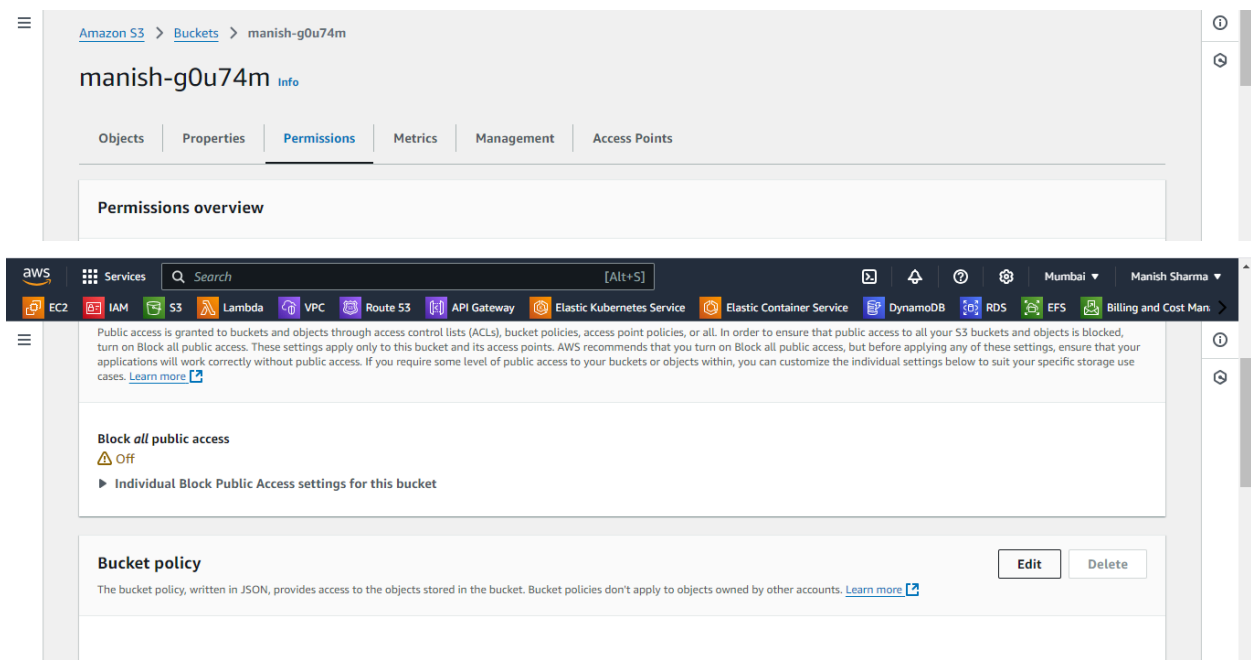
After that Enter the following bucket policy, replacing `our-bucket-name` with our actual bucket name:
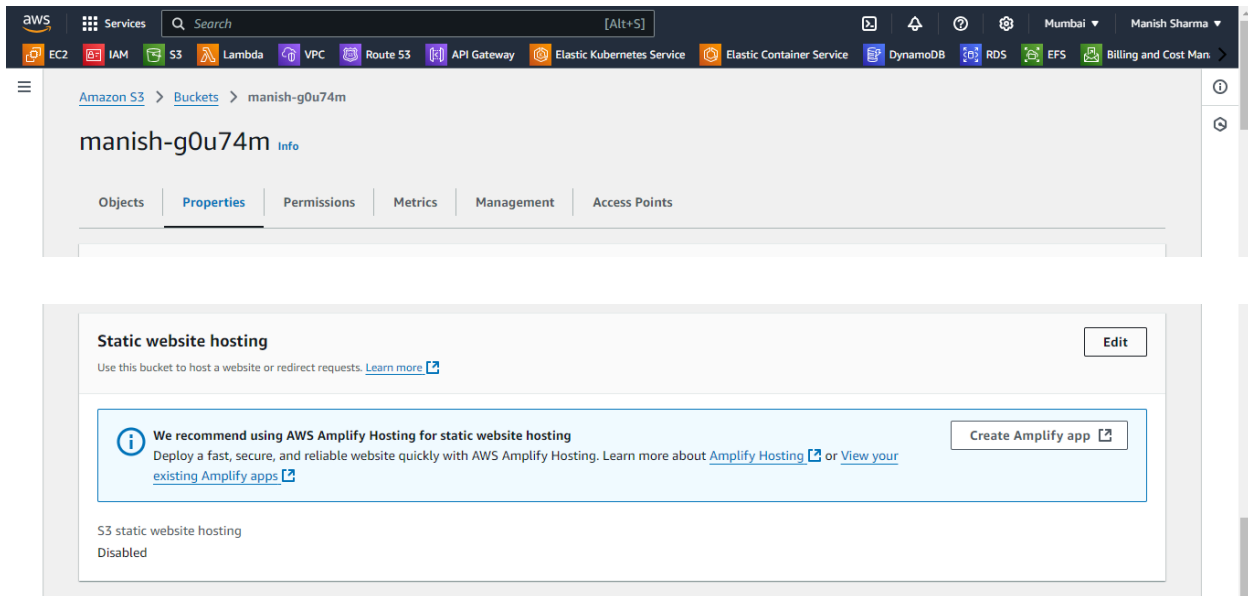
```json
{

  "Version": "2012-10-17",

  "Statement": [

    {

      "Effect": "Allow",

      "Principal": "*",

      "Action": "s3:GetObject",

      "Resource": "arn:aws:s3:::our-bucket-name/*"

    }

  ]

}
```
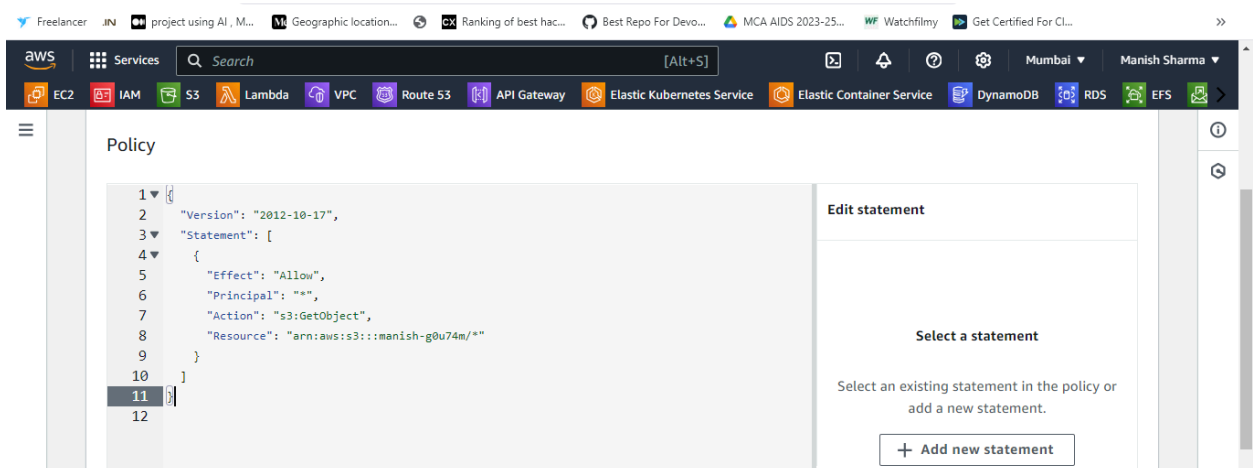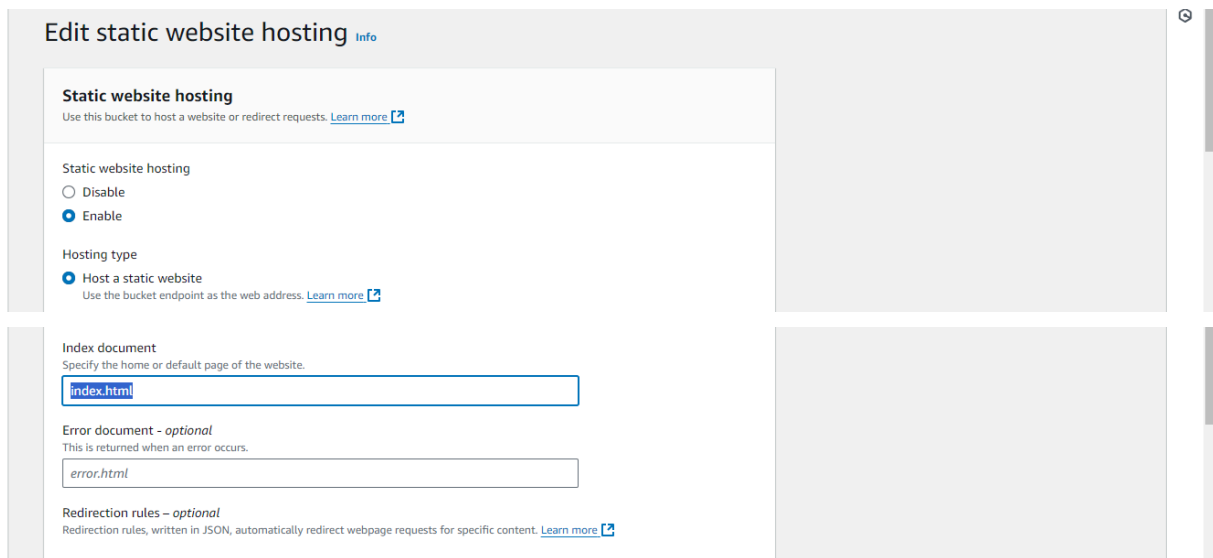

And click on Save Changes .

Step 6 - This is final Step In this step we need to configure Bucket For Static Website

So Click on **Properties Tab** and Scroll down and find the **Static Website hosting** section and click on **Edit.**
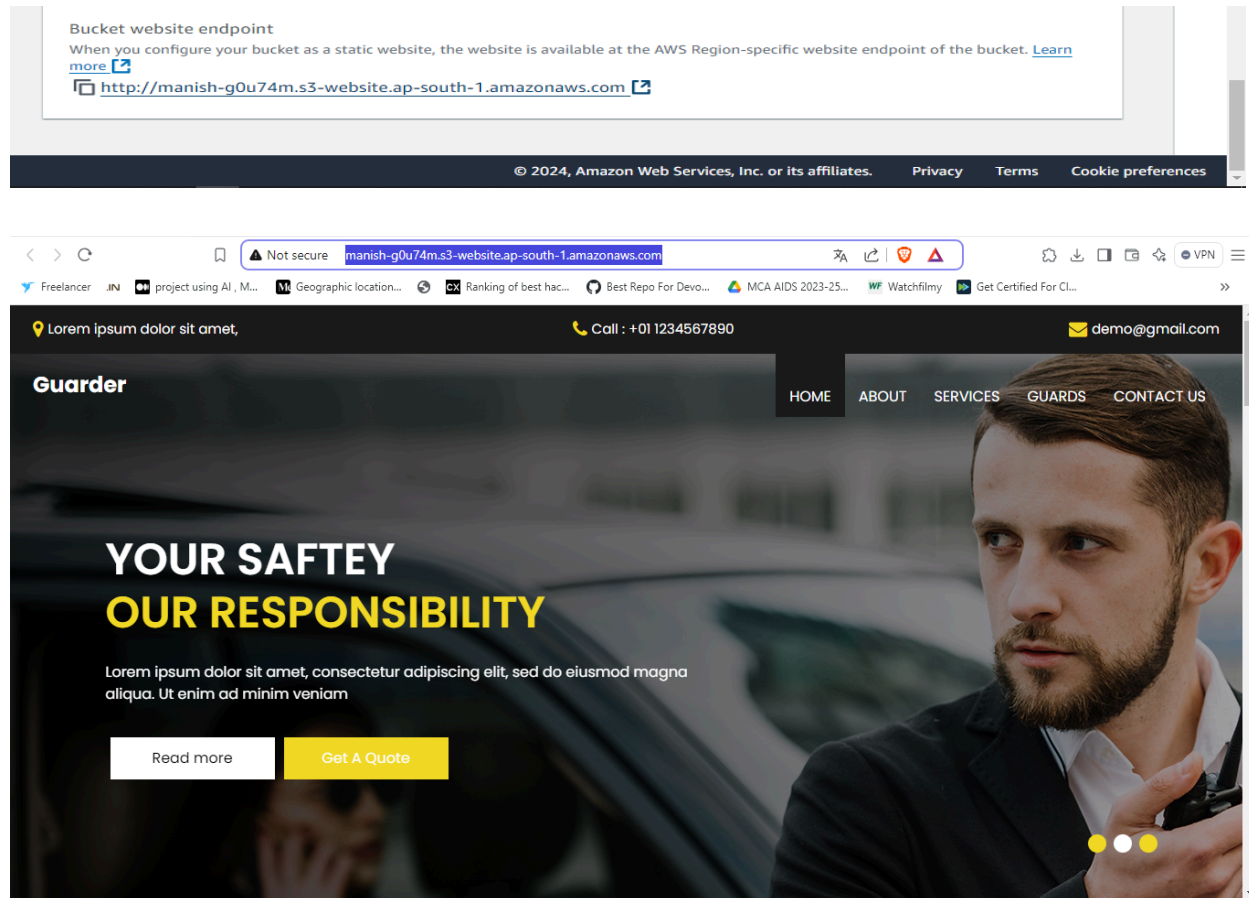

And select **Enable** for static website hosting.Set **Index document** as `index.html` (or any other main HTML file you want to display).If you have a custom **error page**, specify it (e.g., `error.html`).

And click on Save the changes.

After click on save changes we get the url or our website capy that url and open in Browser.

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://manish-g0u74m.s3-website.ap-south-1.amazonaws.com

🎉😊 Congratulations! Your website is now live on AWS S3.