# Static Web Hosting with AWS S3

Description

1. Create a s3 bucket inside your aws account
2. Change the properties of bucket so that it allows website hosting
3. Add a sample static website to the s3 created.
   - Note: try with a simple index.html file
4. Check the required permission/access control of the bucket
5. Verify the working using the endpoint of bucket

STEPS:

1. Sign in to the AWS Management Console
2. Navigate to the S3 service: In the console, type "S3" in the search bar and select "S3" from the list.
3. Create a New Bucket:
   a. Click the "Create bucket" button.
   b. Provide a unique name for your bucket (e.g., my-sample-website-bucket).
   c. Select the AWS Region where you want the bucket to be created.
   d. Click "Create bucket" at the bottom of the page.
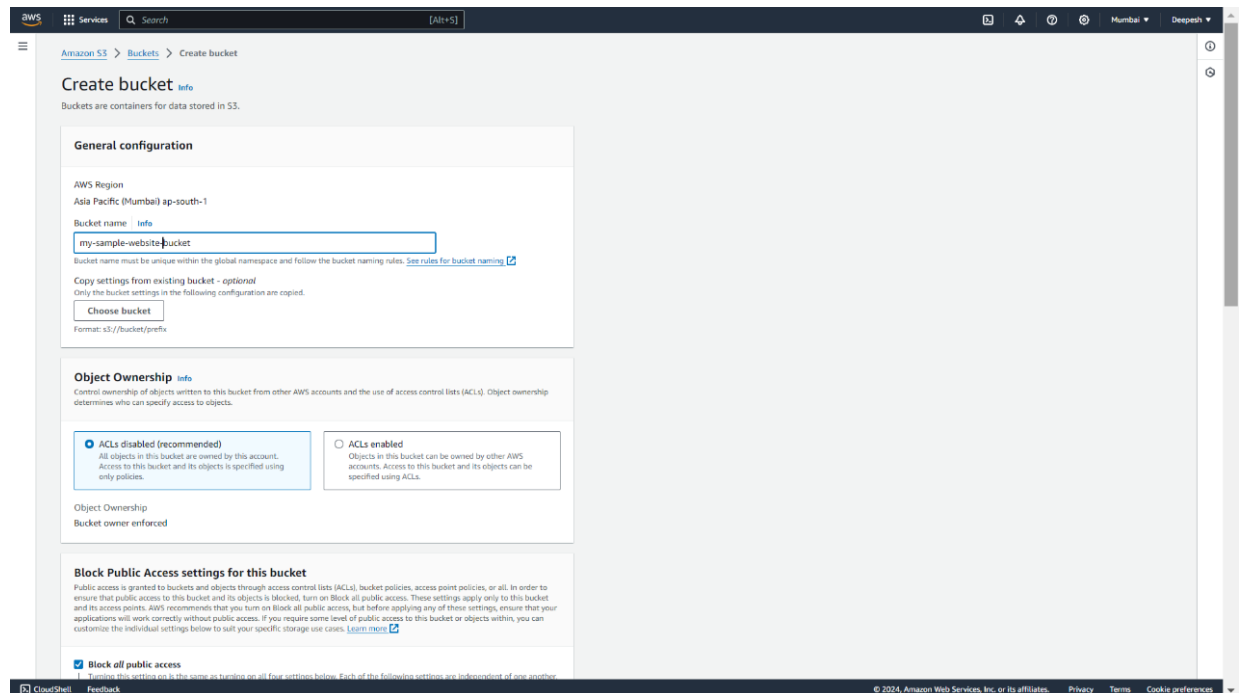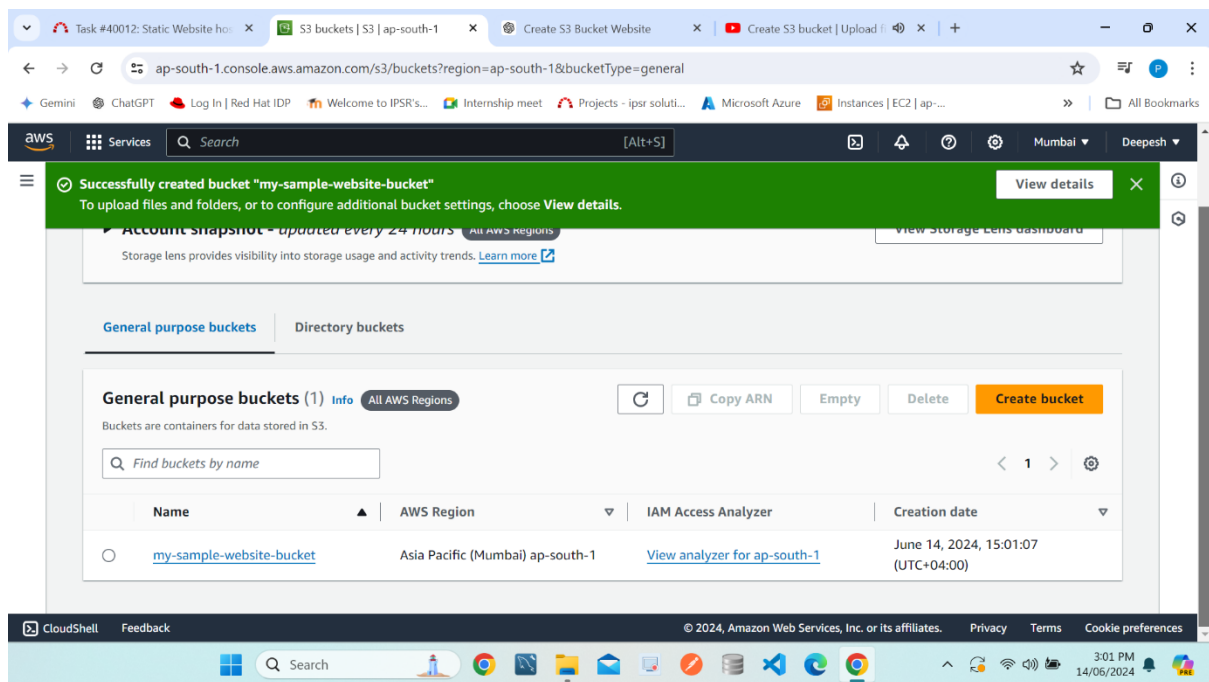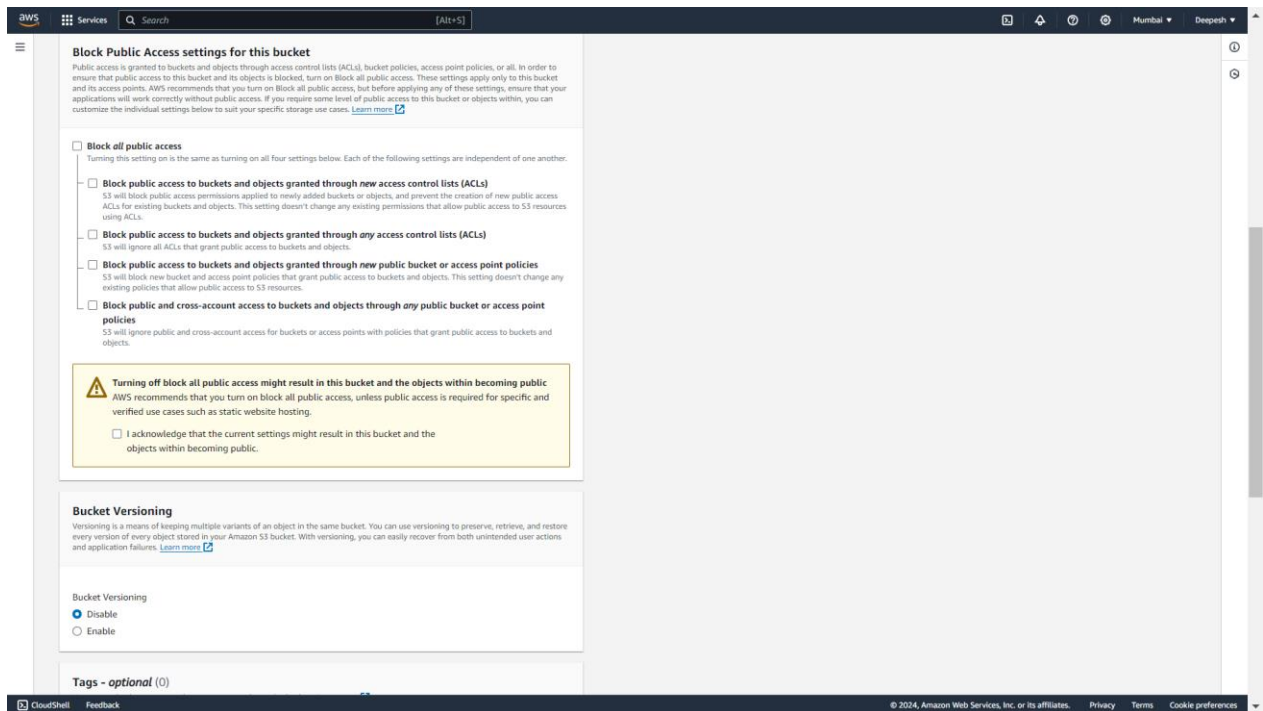
4. Enable Website Hosting

   1. Select the Bucket: Click on the name of the bucket you just created.

   2. Configure Static Website Hosting:

      a. Go to the "Properties" tab.

      b. Scroll down to the "Static website hosting" section.

      c. Click the "Edit" button.

d. Select "Enable" and choose "Host a static website".

e. For the "Index document" field, enter index.html.

f. Leave the "Error document" field blank or enter a custom error page like error.html if you have one.

g. Click "Save changes".
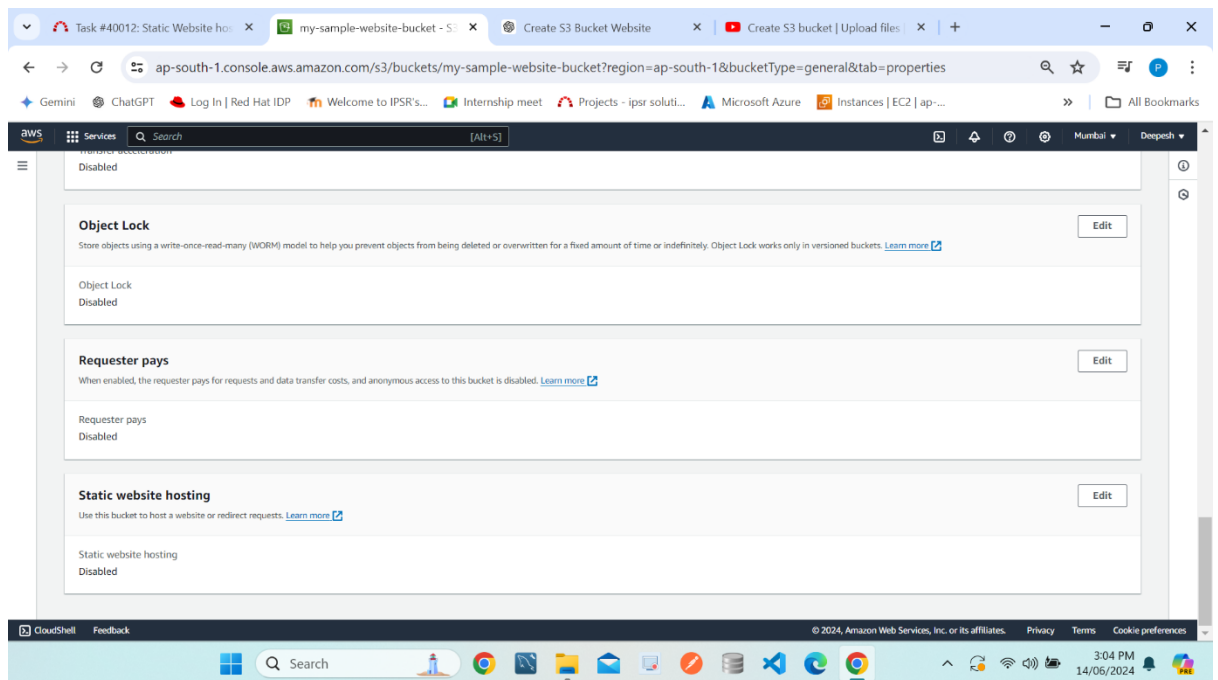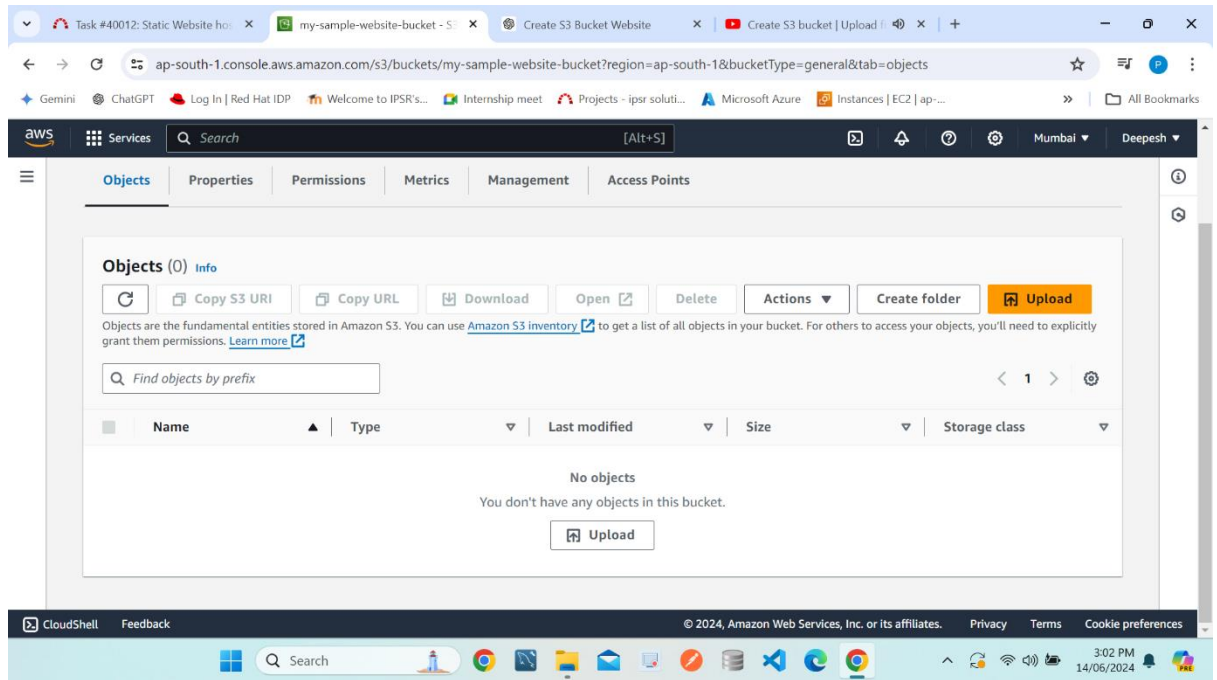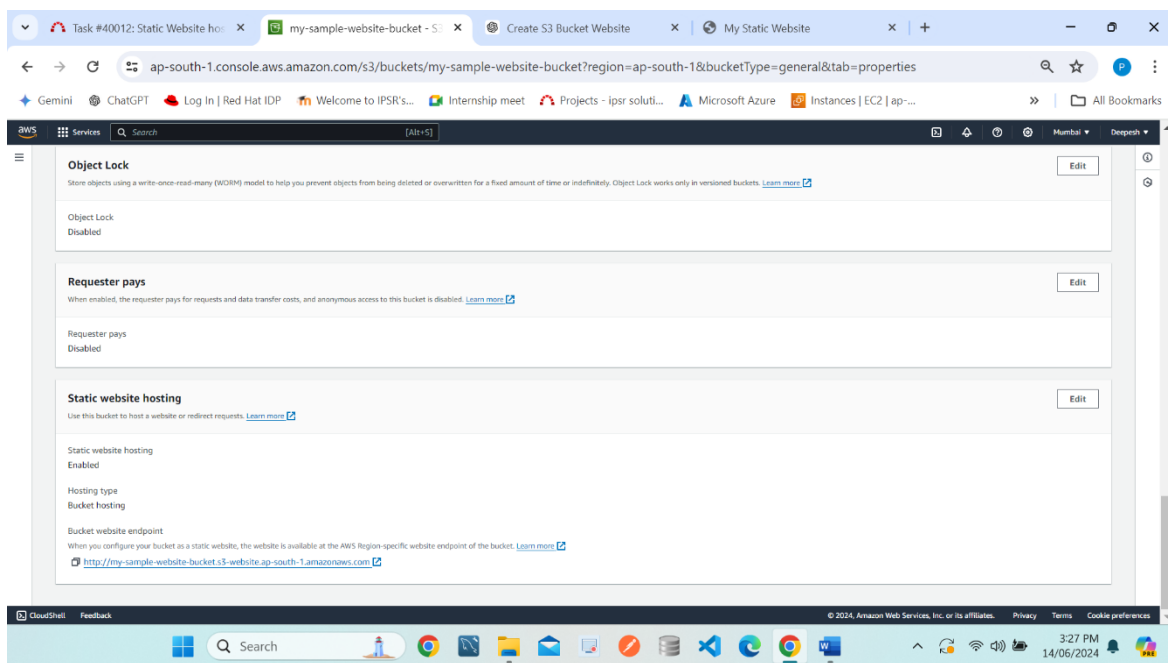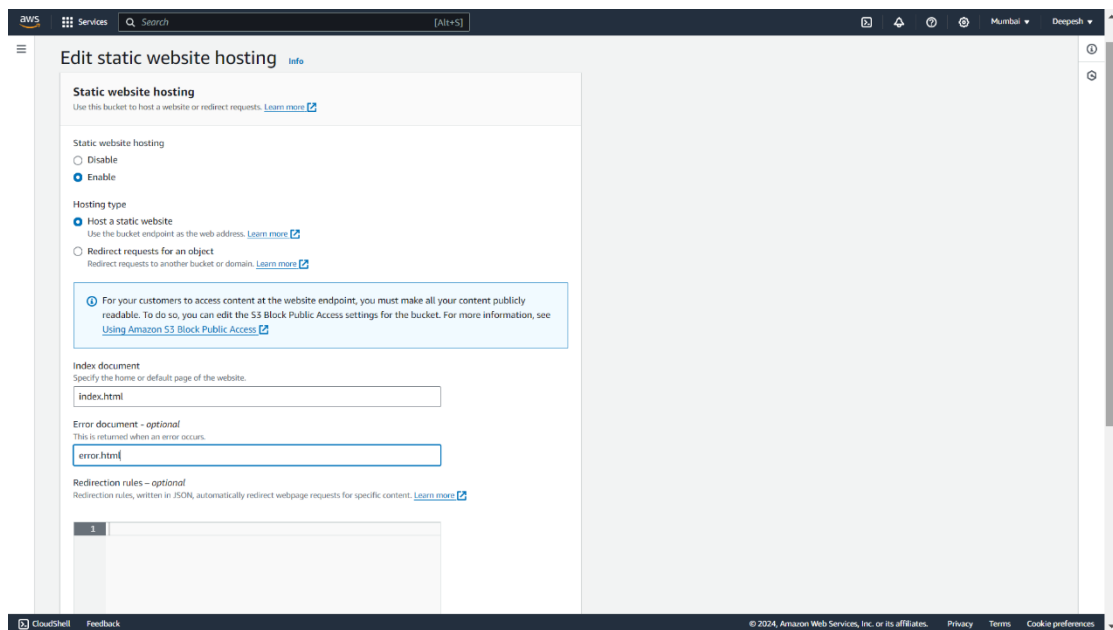
5. Upload a Simple Static Website

    a. Create a Simple index.html and error.html(optional) File

        <u>Index.html</u>

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>My Static Website</title>
</head>
<body>
    <h1>Welcome to My Static Website</h1>
    <p>This is a simple static website hosted on Amazon S3.</p>
</body>
</html>
```
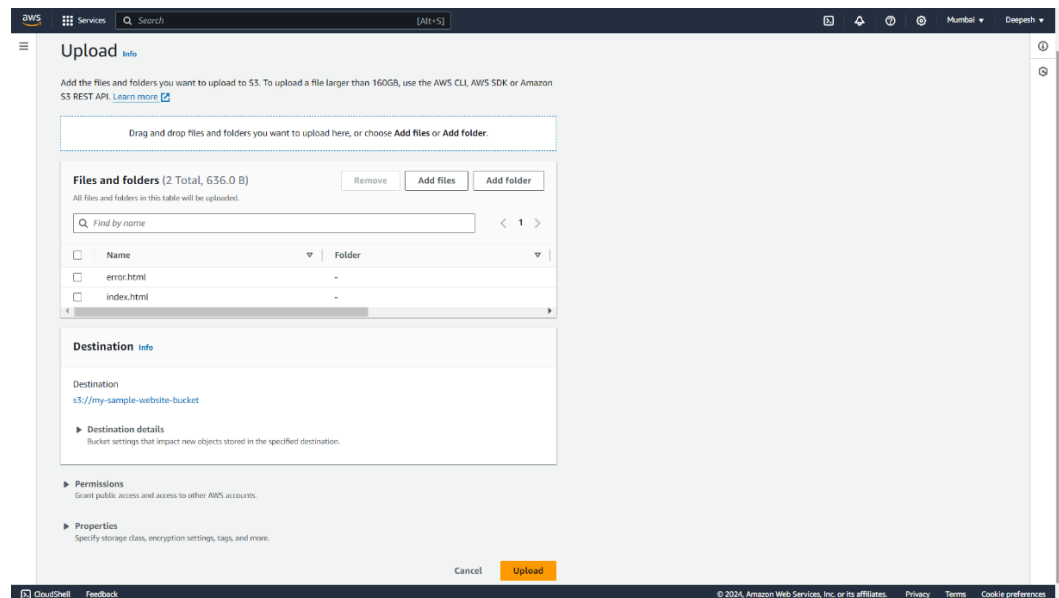
<u>Error.html</u>

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Error Page</title>
</head>
<body>
    <h1>404 - Page Not Found</h1>
    <p>Sorry, the page you are looking for does not exist.</p>
</body>
</html>
```
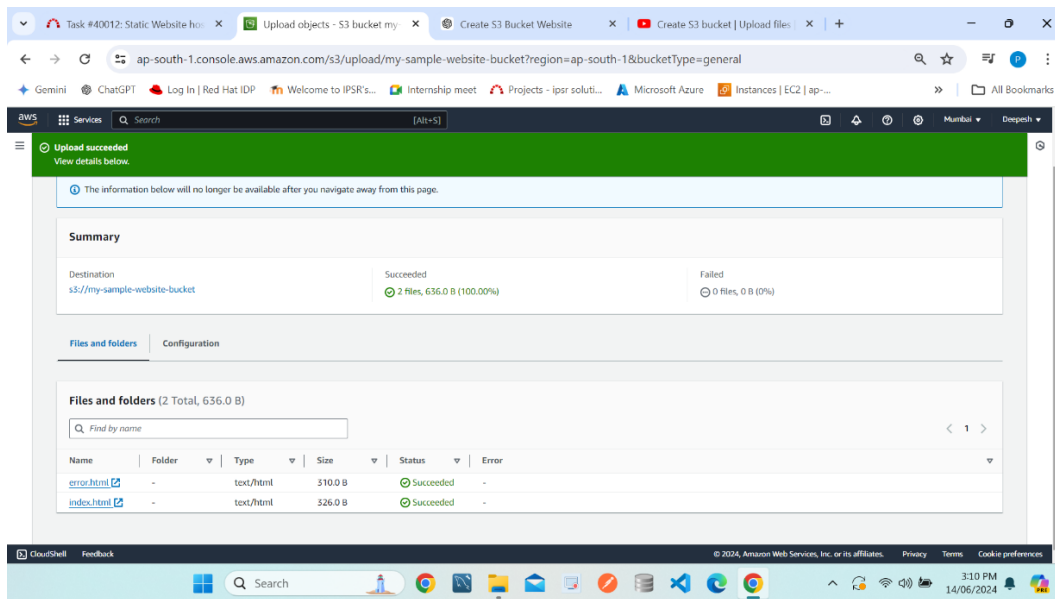
b. Upload the File to S3:

- Go to the "Objects" tab of your bucket.

- Click the "Upload" button.

- Drag and drop your index.html file or click "Add files" to select the file.

- Drag and drop your error.html file or click "Add files" to select the file.

- Click "Upload".

6. Set Bucket Permissions: - Make the Bucket Public: (we can also make bucket permission public at the time of bucket creation. If the permissions is not public follow the step)

    i.   Go to the "Permissions" tab of your bucket.
    ii. Scroll down to the "Bucket policy" section and click "Edit".
    iii. Add the following policy to make the bucket publicly accessible:
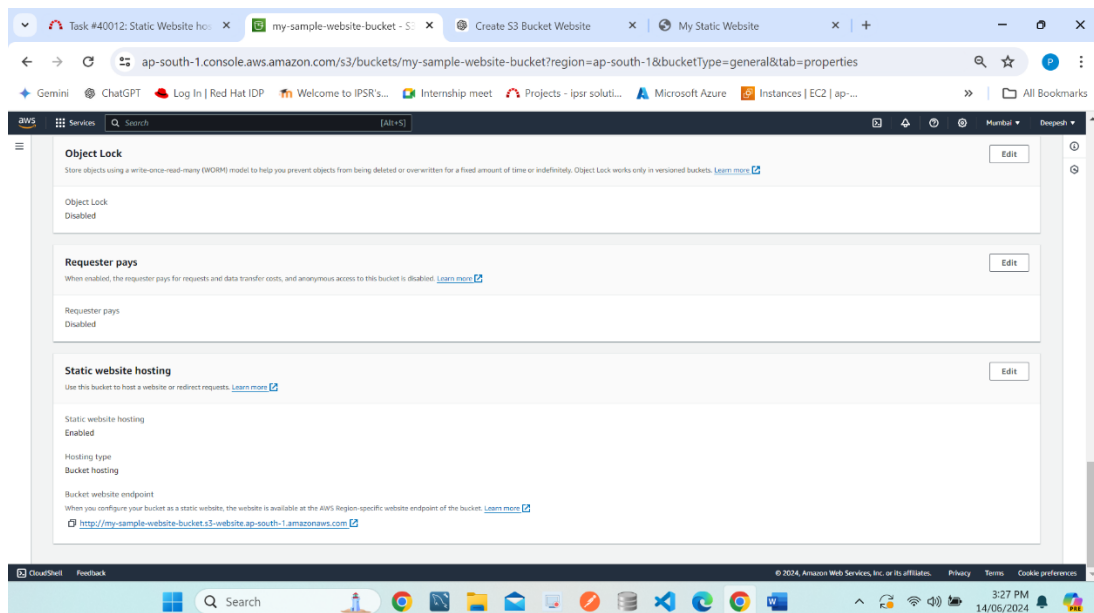   iv. Click "Save changes".
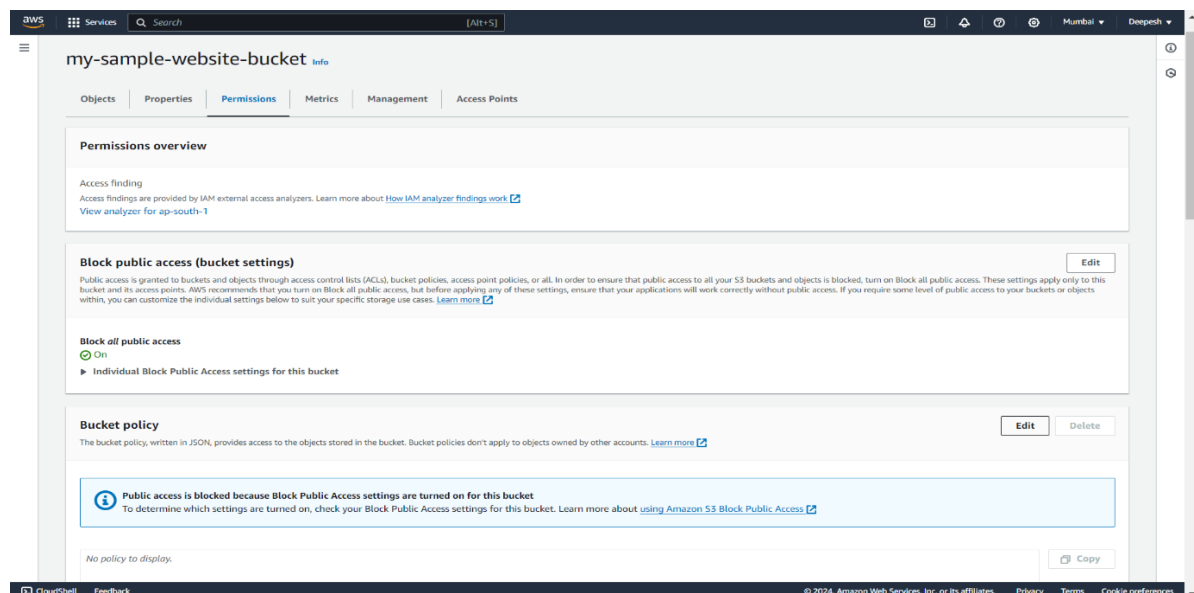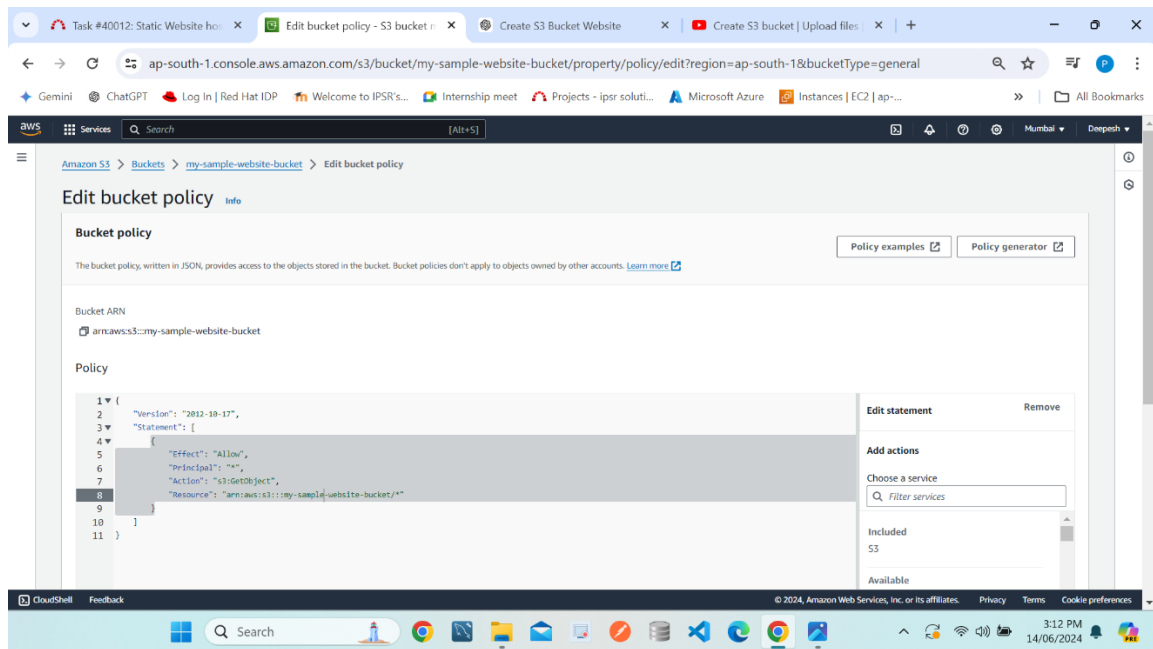
7. Verify the Website
    a. Get the Endpoint URL:
        - Go back to the "Properties" tab.
        - In the "Static website hosting" section, you'll see the "Endpoint" URL. It will look something like http://my-sample-website-bucket.s3-website.ap-south-1.amazonaws.com/

b. **Open the URL in Your Browser:**

- Copy the endpoint URL and paste it into your browser.

- You should see your simple static website with the message: "Welcome to My Static Website".