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SDP CLOUD COMPUTING MINI PROJECT REPORT FH2024

PROBLEM STATEMENT : STATIC WEB HOSTING USING AWS S3

Introduction:

Static web hosting using AWS S3 provides a simple and cost-effective solution for hosting static websites with ease and scalability. A static website consists of HTML, CSS, JavaScript, images, and other assets that don't change dynamically based on user interactions. AWS S3 (Simple Storage Service) is a highly reliable and scalable object storage service that can be leveraged to host static web content.

Step 1: Create an S3 Bucket

- Sign in to the AWS Management Console:

Open the AWS Management Console and sign in to your AWS account.

Navigate to S3:

- Go to the S3 service by selecting it from the AWS Management Console.
- Create a new bucket:
- Click the "Create bucket" button.

Enter a globally unique name for your bucket.

Choose the region for your bucket.

Click "Next."

Configure options:

Skip the "Configure options" section (optional).

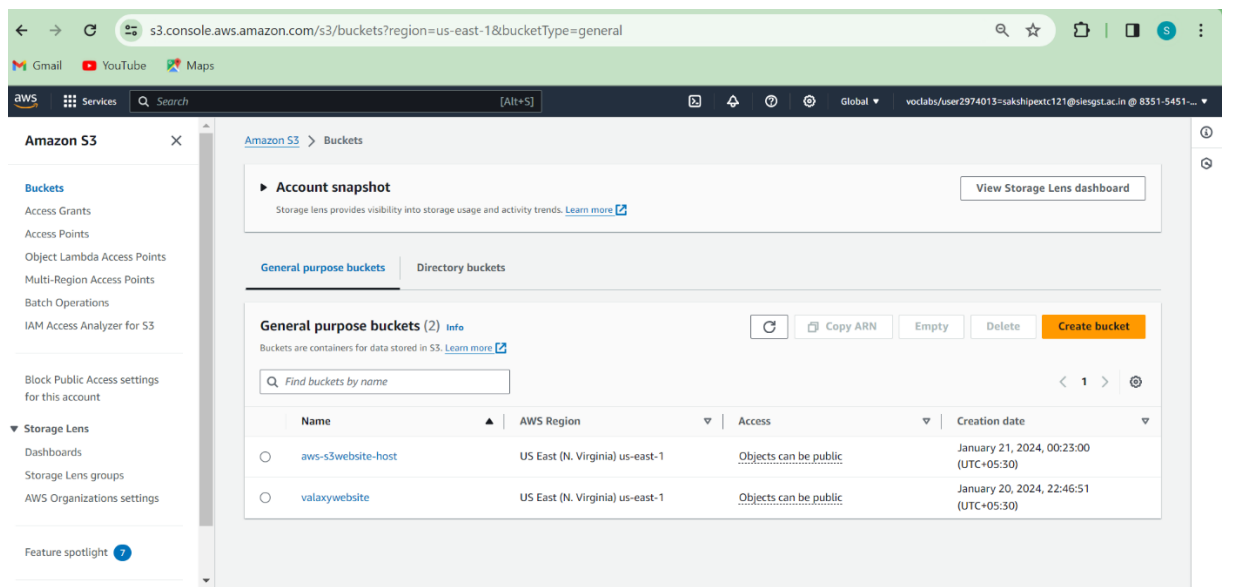
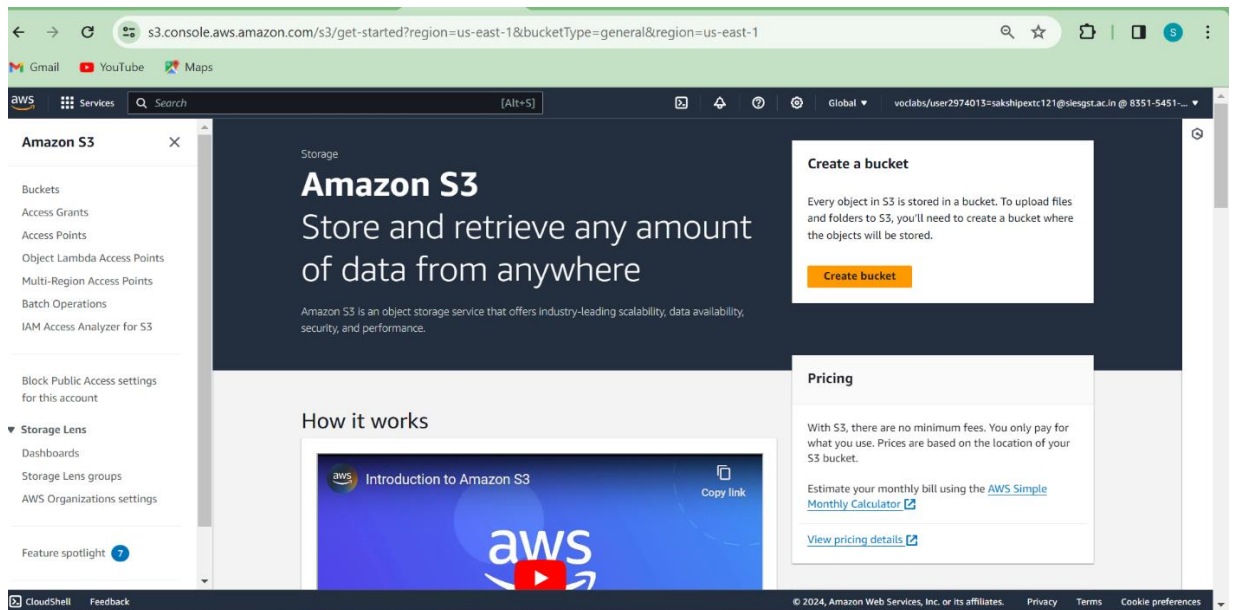
Click "Next."

Set permissions:

You can configure bucket permissions if needed or leave the default settings.

Click "Next."

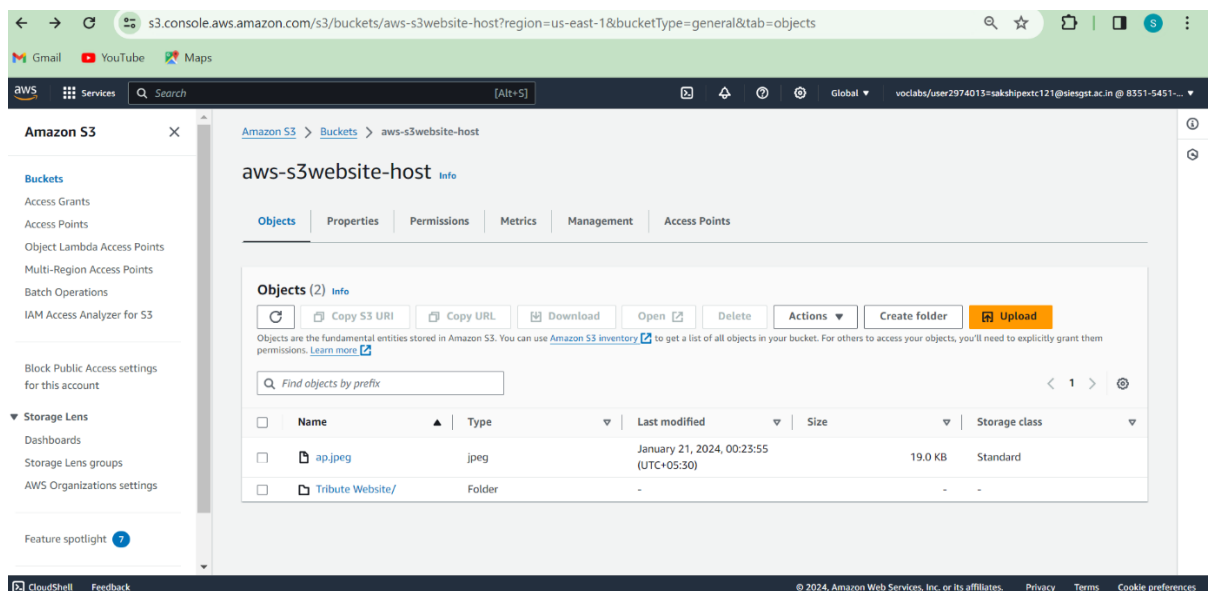
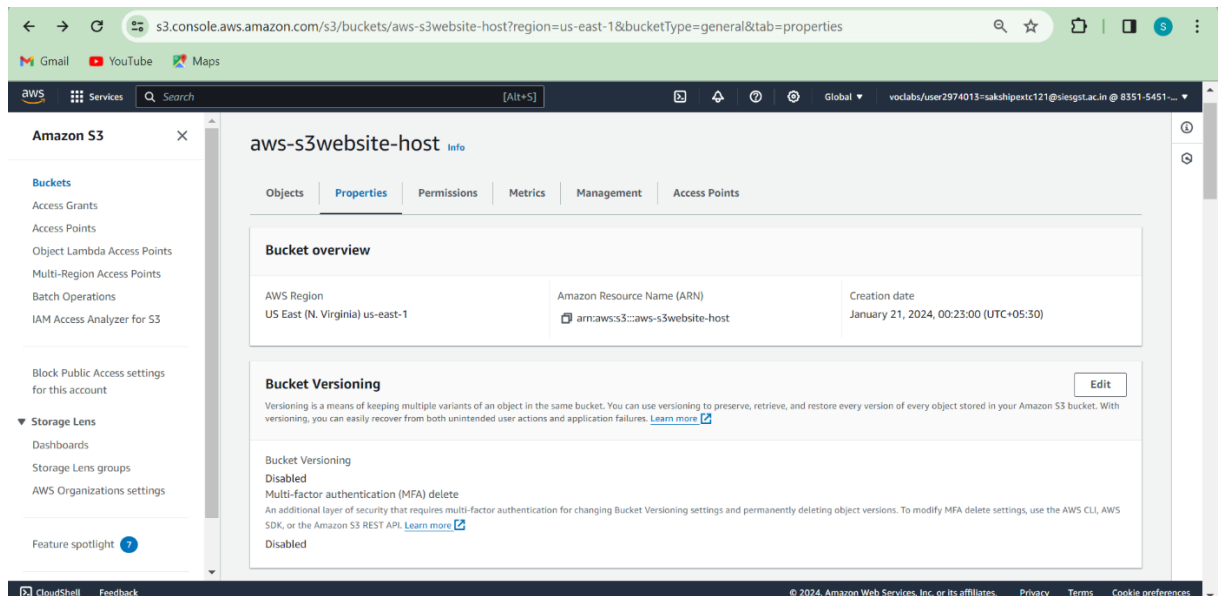
- Review:
- Review your settings and click "Create bucket."



Step 2:

- Upload your Website Files
- Select your bucket:

- Click on the newly created bucket in the S3 console.
- Upload files:
- Click the "Upload" button.
- Add files or drag-and-drop your website files into the S3 bucket.
- Configure public access:
- Select your uploaded files.
- In the "Actions" dropdown, choose "Make public."

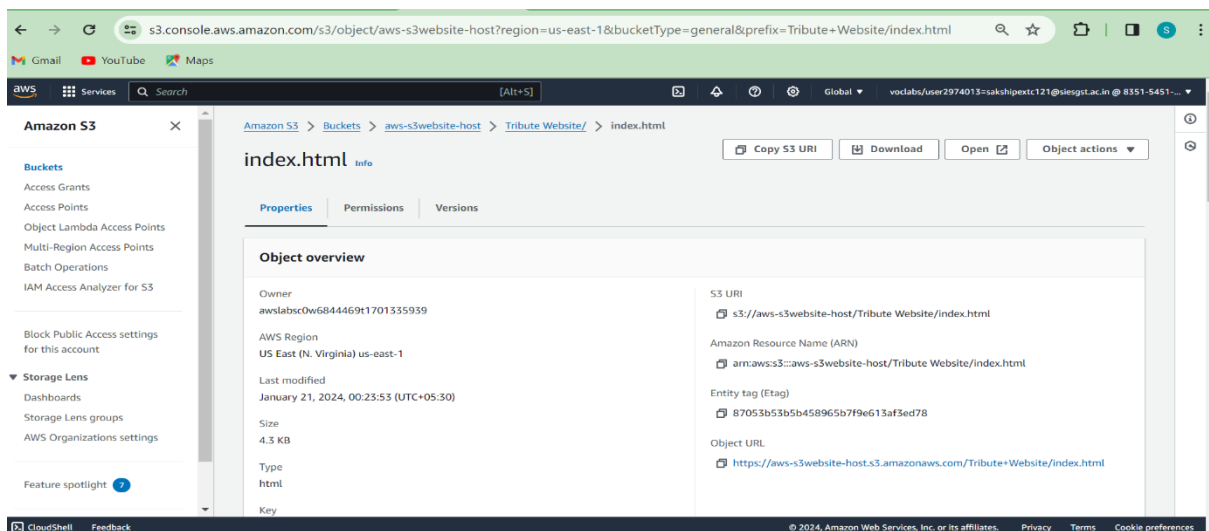
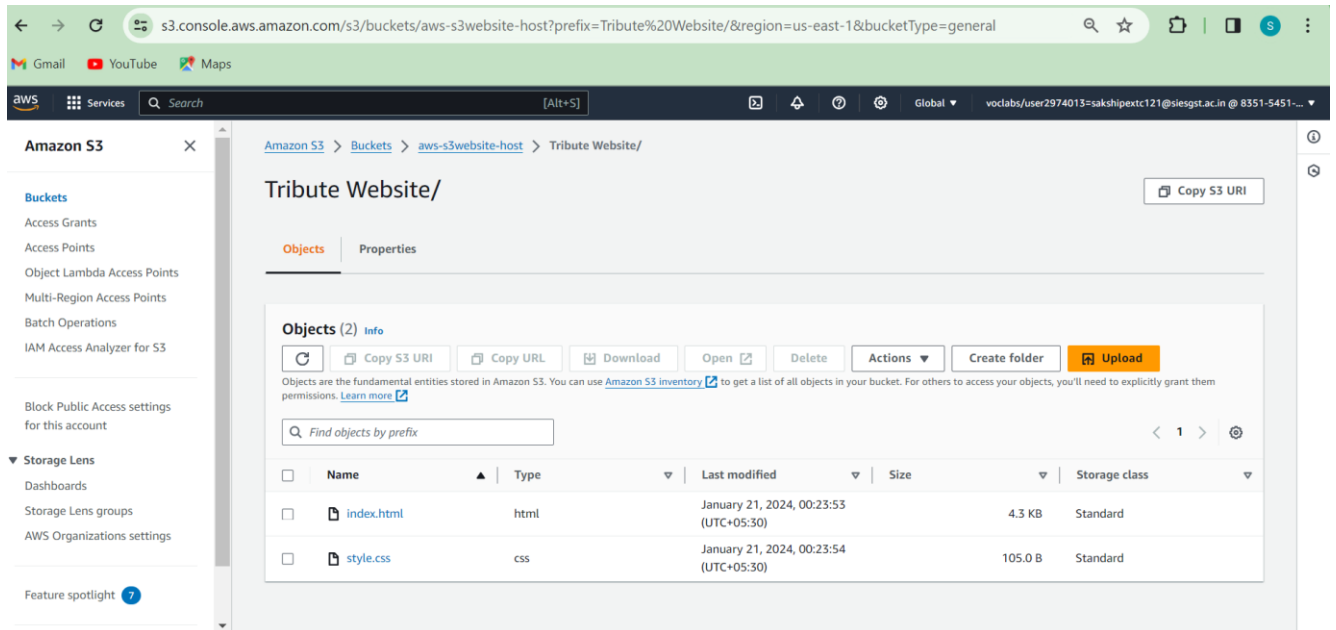


Step 3:

- Enable Static Website Hosting
- Select your bucket:
- Click on the bucket name in the S3 console.

Navigate to Properties:

- Click on the "Properties" tab.
- Enable static website hosting:
- Click on the "Static website hosting" card.
- Choose "Use this bucket to host a website."
- Enter the index document (e.g., index.html).
- Optionally, enter an error document.
- Click "Save changes."



Step 4:

- Configure Permissions
- Bucket Policy:
- Go to the "Permissions" tab.

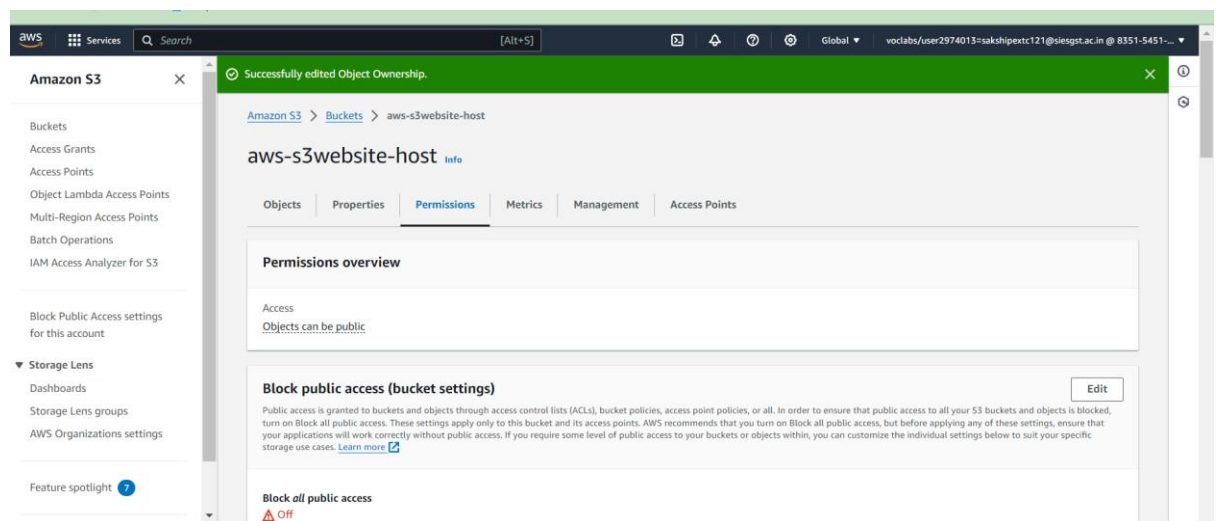
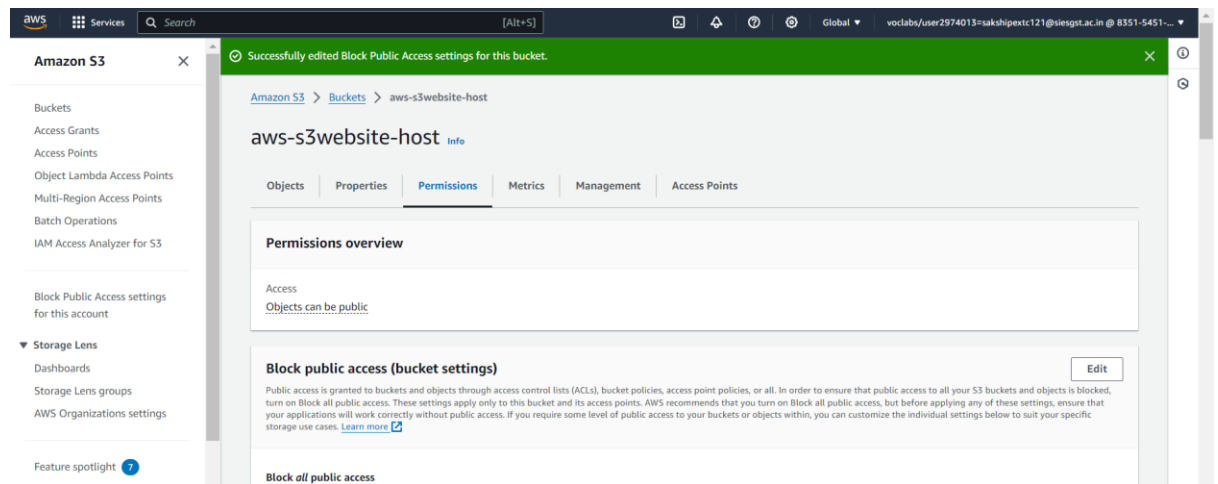
- Click on "Bucket Policy" and add a policy to allow public access. Replace your-bucket-name with your actual bucket name.

Json

- Copy code

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::your-bucket-name/*"
    }
  ]
}
```

Click "Save changes."



Step 5:

- Access Your Website
Find the Endpoint URL:
- In the S3 bucket properties, go to the "Static website hosting" card.
Note the "Endpoint" URL.
- Visit Your Website:
- Open a web browser and enter the Endpoint URL in the address bar.
Your static website should be accessible.

