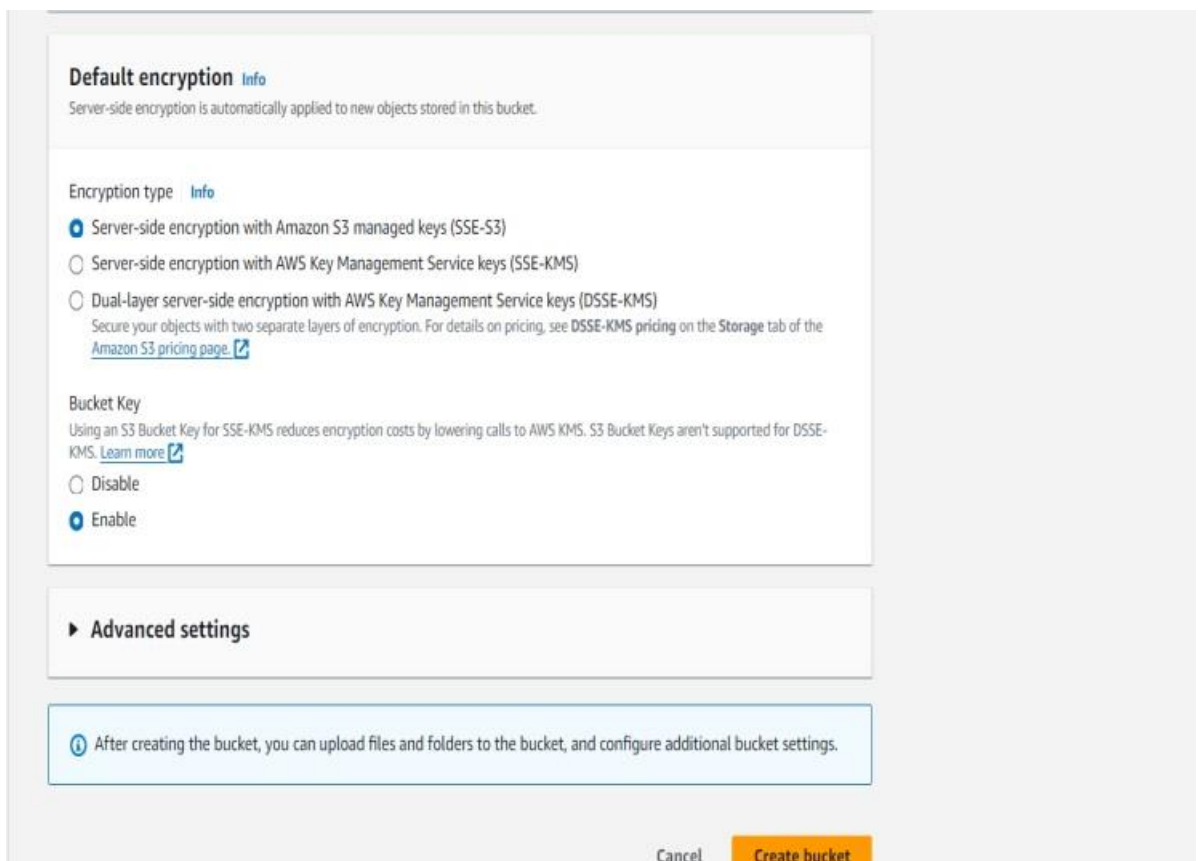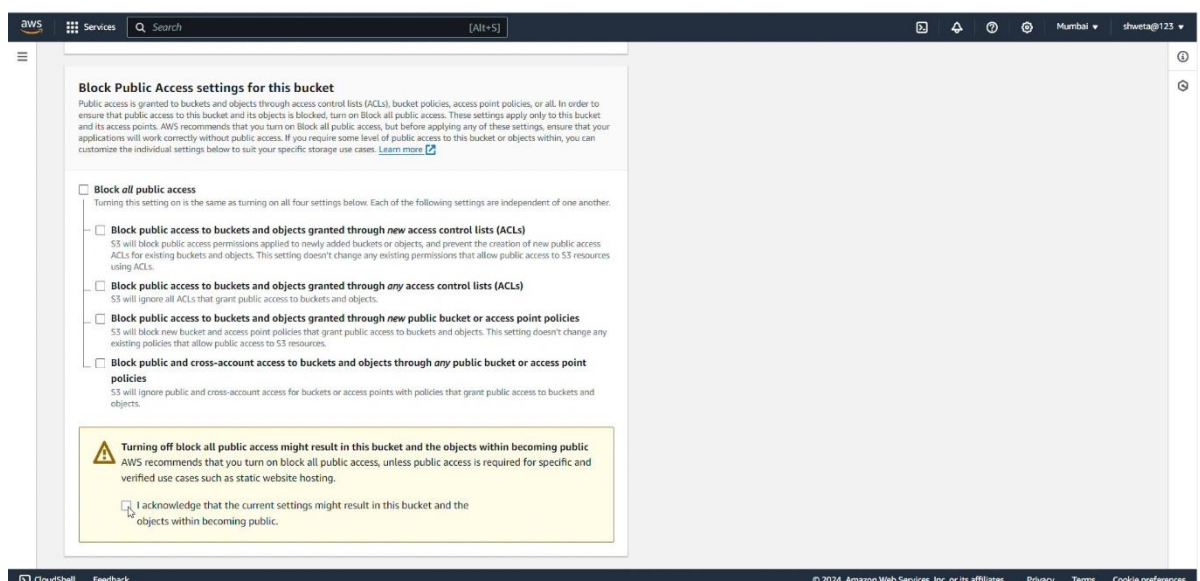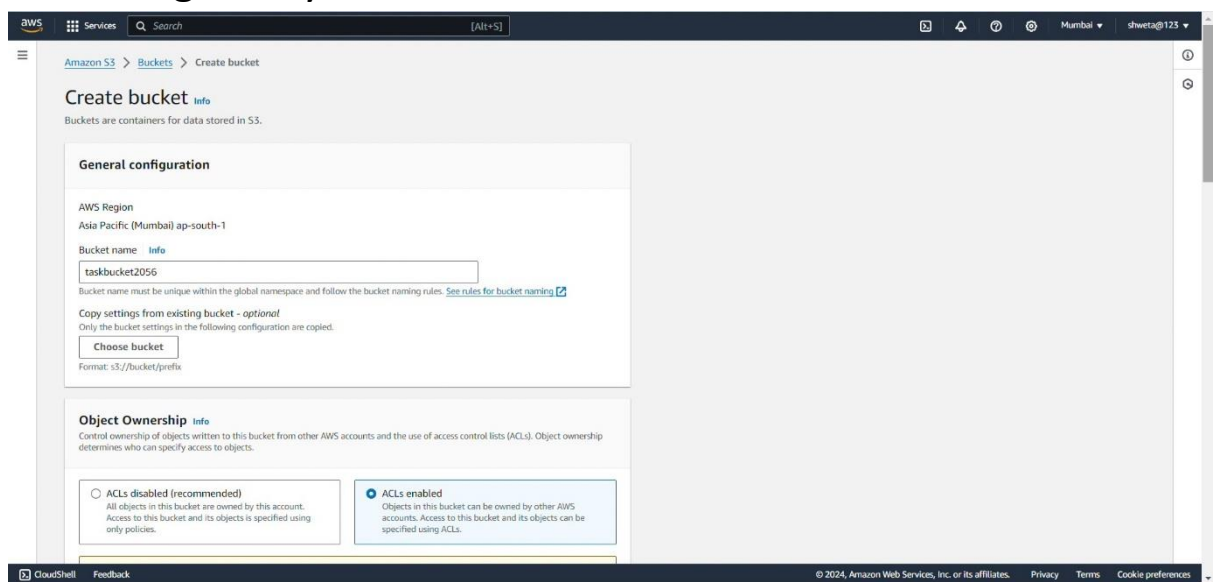# INTERNSHIP TASK 1

HOSTING A STATIC WEBSITE USING S3.

- We will start creating a s3 bucket by clicking create bucket and after that we will select our region. In this I have selected my nearest region Mumbai. We will give name to our s3 bucket which should be unique because it works globally.
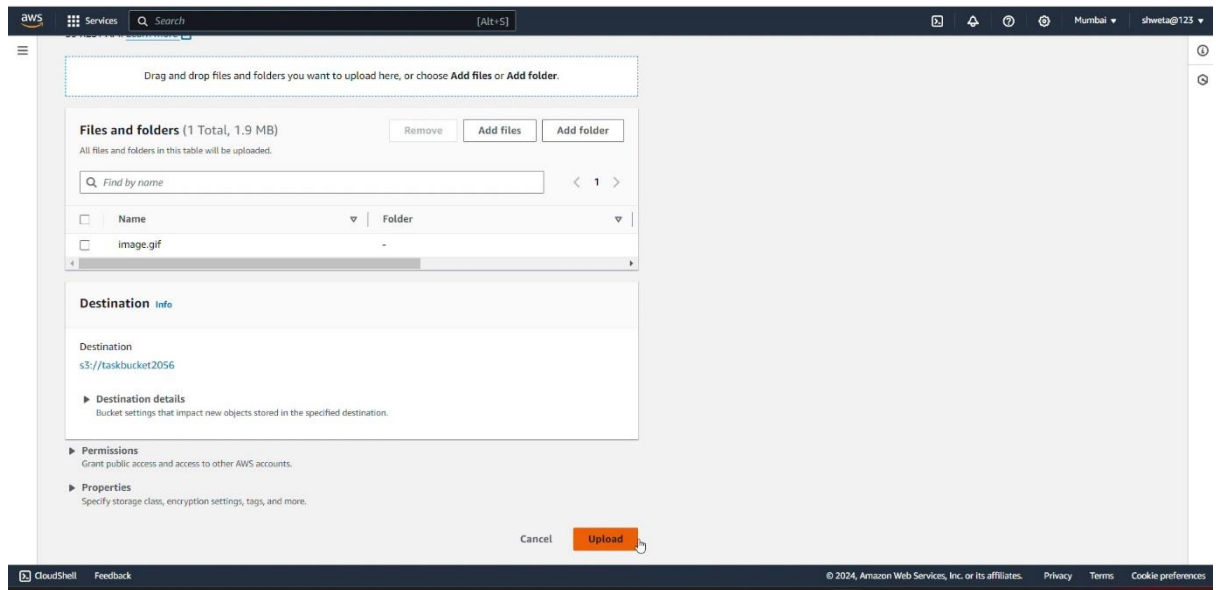
- In block storage access settings for this bucket we will unselect the defaults and select the acknowledge points for public access. In bucket versioning we will keep it default.

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more 🔗

Bucket Versioning

○ Disable

◉ Enable

- Now we will make a simple index.html file and save it to our computer and we will upload it. We will try to open it and see the object by clicking in url provided there as we can see it is saying access denied. So, we need to generate a s3 policy for this.

Default encryption Info

Server-side encryption is automatically applied to new objects stored in this bucket.

Encryption type   Info

◉ Server-side encryption with Amazon S3 managed keys (SSE-S3)

○ Server-side encryption with AWS Key Management Service keys (SSE-KMS)

○ Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)

Secure your objects with two separate layers of encryption. For details on pricing, see **DSSE-KMS pricing** on the **Storage** tab of the Amazon S3 pricing page. 🔗

Bucket Key

Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. Learn more 🔗

○ Disable

◉ Enable

▶ **Advanced settings**

ⓘ After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel   **Create bucket**

- We will go to Amazon policy generator to generate a policy to see our objects. In actions we will select get object and copy the ARN (Amazon resource name) from the object page and paste it to the amazon policy generator page and add statement and generate policy.
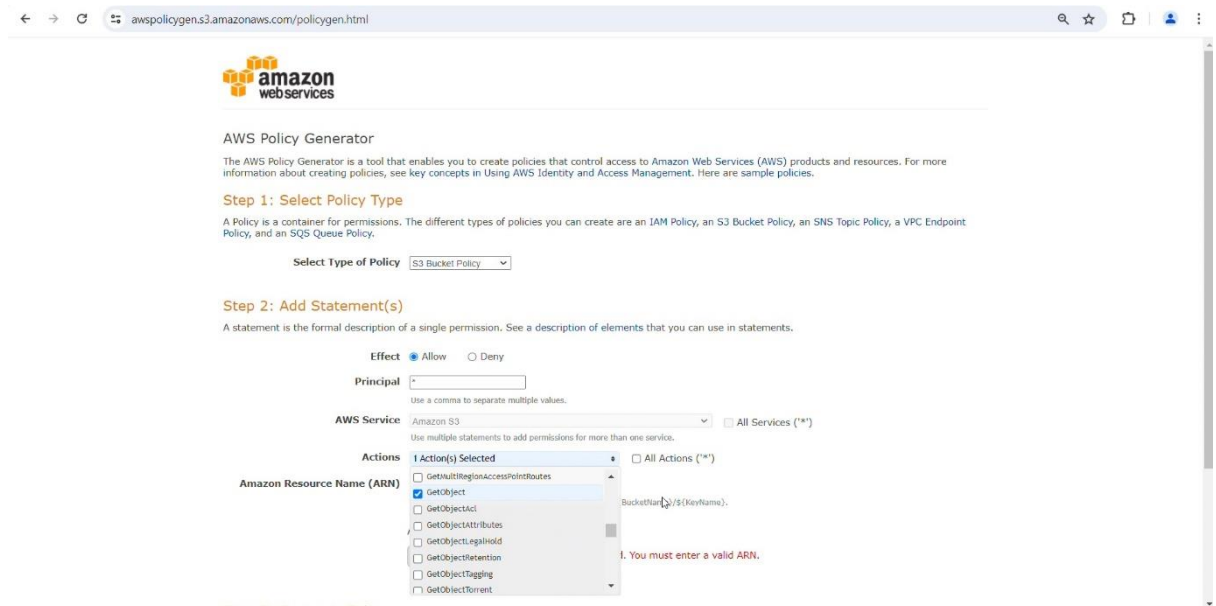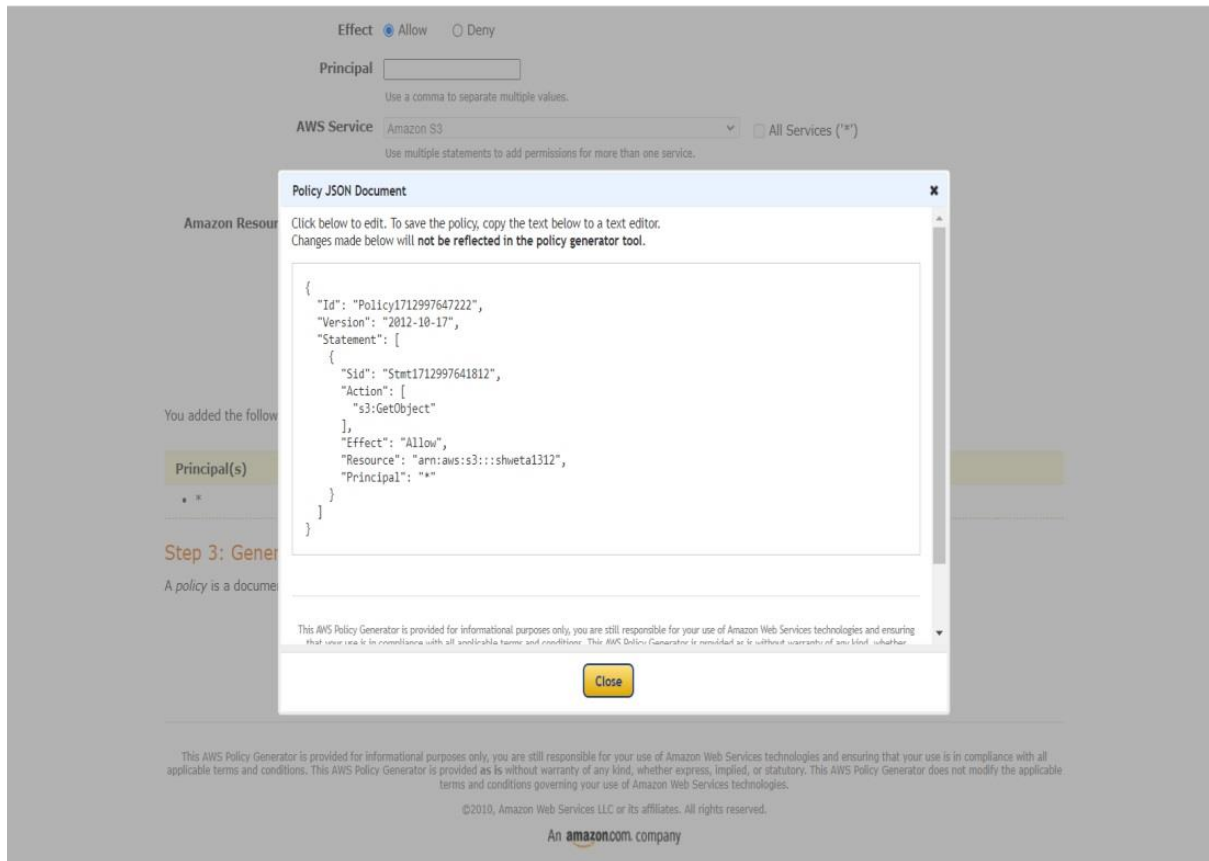
- Now we will copy the generated JSON policy and paste it in our object permission page at bucket policy and edit it by adding /* after bucket name and save changes. Now we will open url and we will be able to see the objects.
- In properties we will change the website hosting to enable and fill the essentials and save changes. Now we are ready to host a static website.