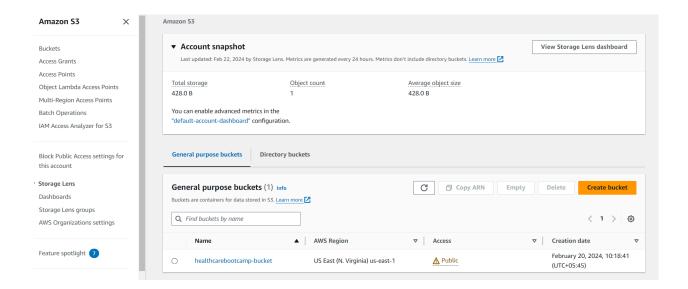
Part 2: Hosting a Static Portfolio Website on S3

Objective:

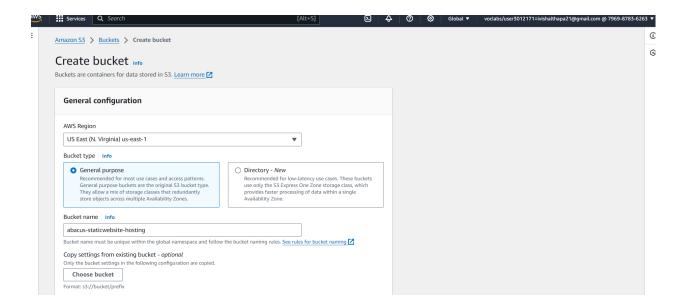
The objective of this lab is to learn how to host a static website on Amazon S3. This involves creating an S3 bucket, uploading the website files, configuring the bucket for website hosting, setting up DNS to point a domain name to the S3 bucket. Through this process, we will gain an understanding of using S3 for web hosting and integrating it with other AWS services for a complete web hosting solution.

Steps Involved:

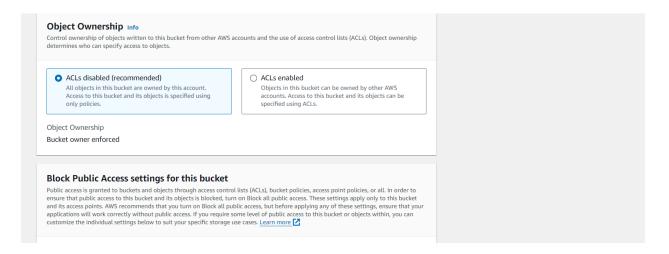
- 1. Create an S3 Bucket:
 - Go to the S3 service.
 - Click on "Create bucket."



- Choose a globally unique name for your bucket.
- Select the region for your bucket.

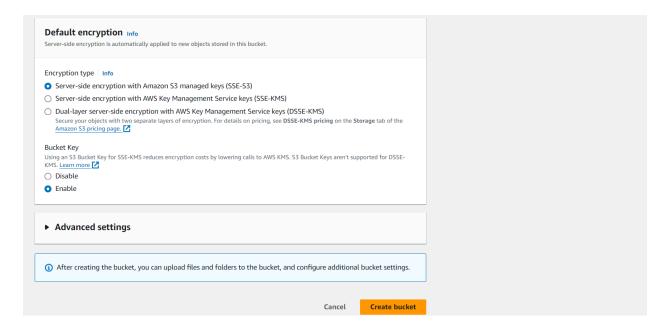


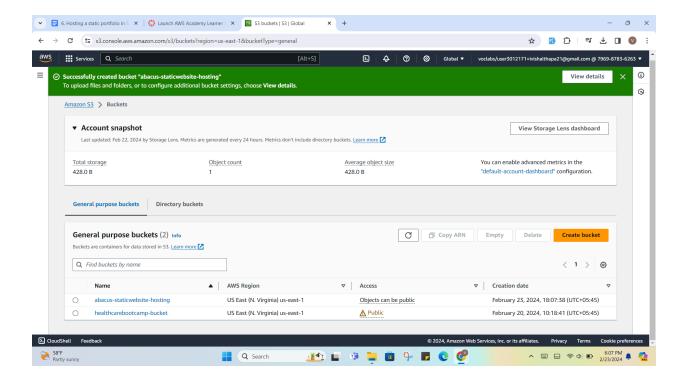
• Since we are creating website that is available to the public, we need to disable the block public access settings for this bucket



Block Public Access settings for this bucket ublic access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to nsure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket nd its access points. AWS recommends that you turn on Block all public access, but before applying any of these strings, ensure that your pplications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can ustomize 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 lignore 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

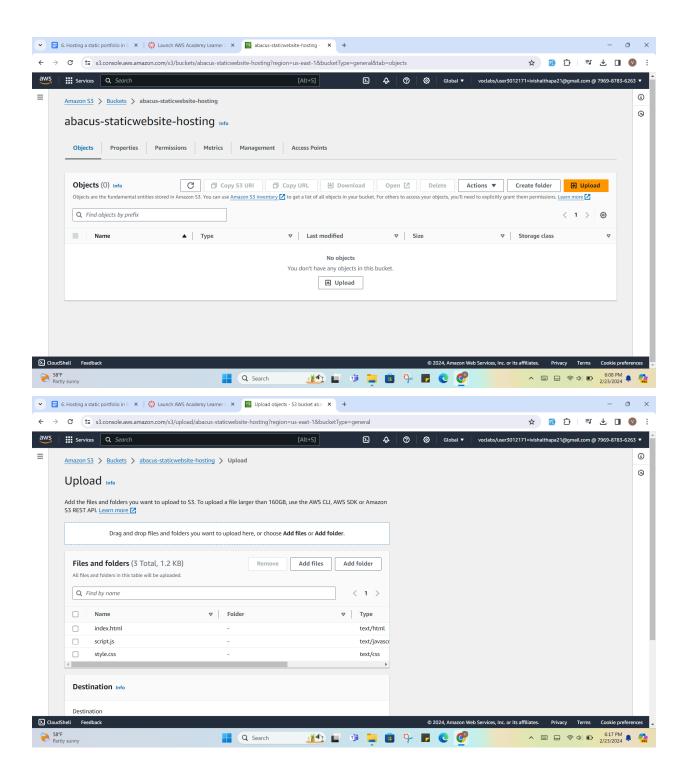
Keep all other settings as default and click "Create bucket."

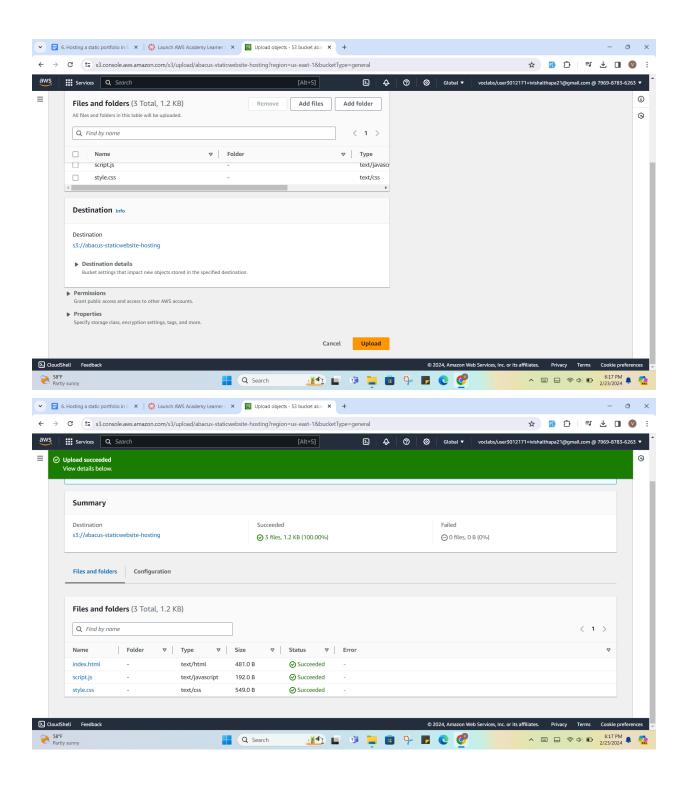




2. Upload Website Files:

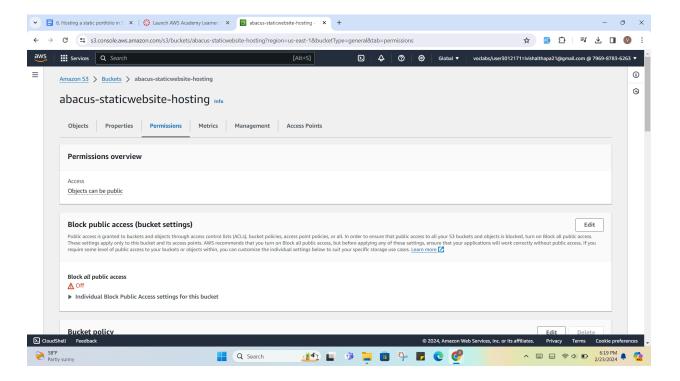
- Open the bucket we just created.
- Click on the "Upload" button.
- Select all the files that make up your portfolio website (HTML, CSS, JavaScript, images).
- Click "Next" and then "Upload" to upload the files to your bucket.

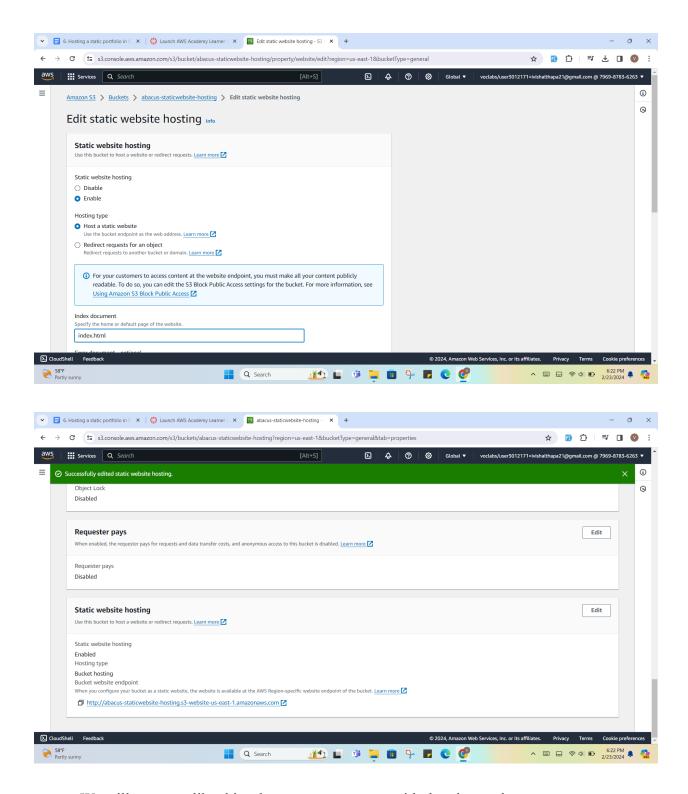




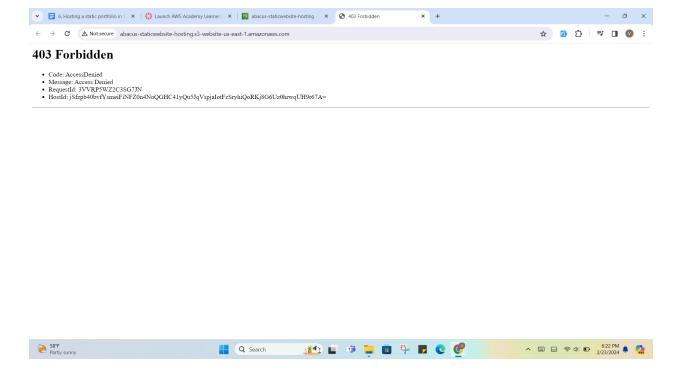
3. Configure Bucket for Website Hosting:

- Click on the "Properties" tab inside the bucket.
- Scroll down to the "Static website hosting" section and click "Edit."
- Enable the "static website hosting" option
- Write the home page/landing page name in the index document. (e.g., index.html) in our case.
- Choose "Use this bucket to host a website."
- Enter the index document (e.g., index.html).
- Click "Save changes."
- Inside the bucket in the properties tab we will get the url of our website, use this url to access our hosted page
- http://abacus-staticwebsite-hosting.s3-website-us-east-1.amazonaws.com/





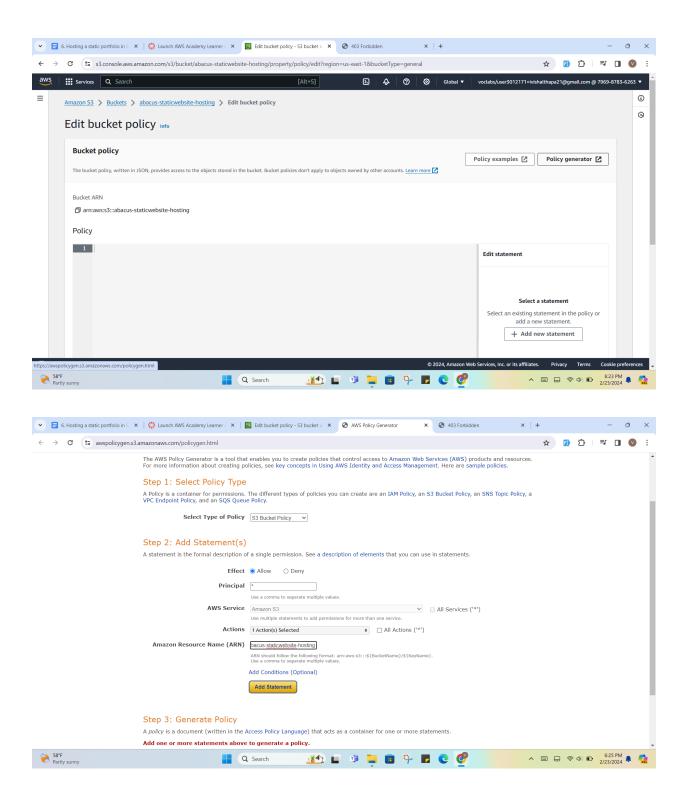
• We will get error like this when we try to access with the given url

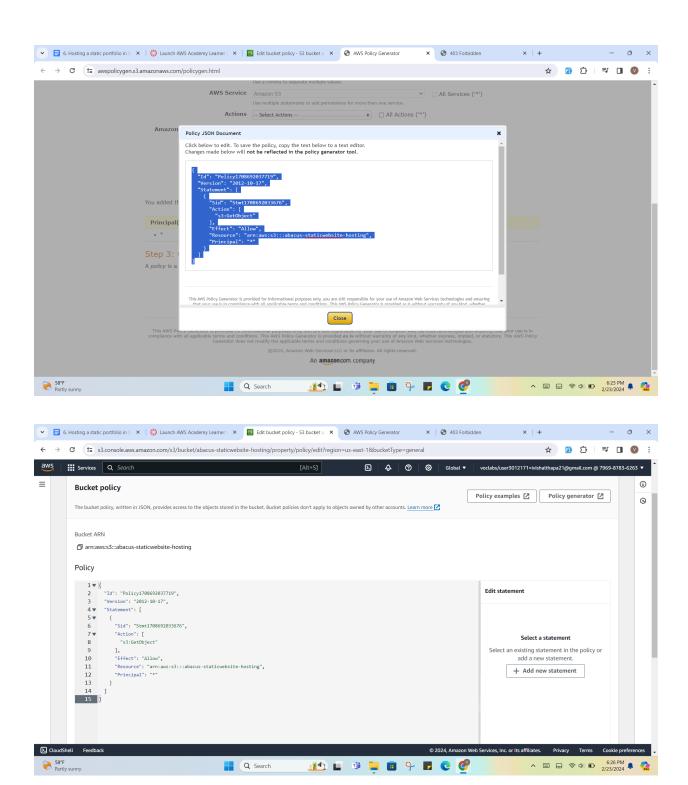


• To solve the issue we need to configure bucket permissions

4. Configure bucket permissions

- Under the permissions tab inside the respective bucket, edit bucket policy at the bottom of the page
- Click on the policy generator
- Using the arn of the bucket we fill the values and click on "Add statement" and "Generate Policy", we will get the policy.
- Copy this policy to the bucket policy and save.





Welcome to My Static UI Page

This is a sample static UI page built with HTML, CSS, and plain JavaScript.

Click Me

Hello, you clicked the button!