

Aim: To develop a website and host it on

- i) local machine or virtual machine
- ii) Amazon S3 Bucket

Static Hosting:

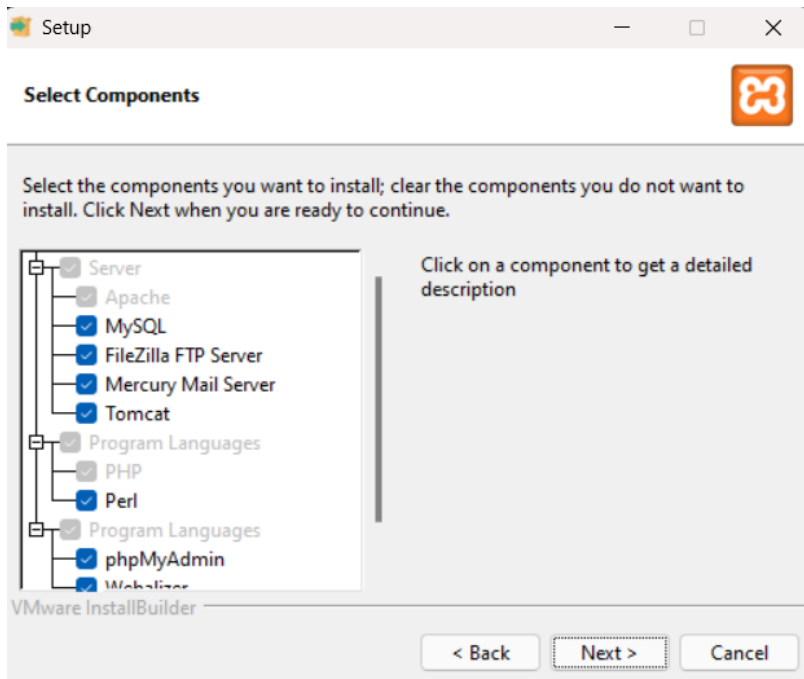
1) On local server (XAMPP)

Step 1: Install XAMPP from <https://www.apachefriends.org/>.

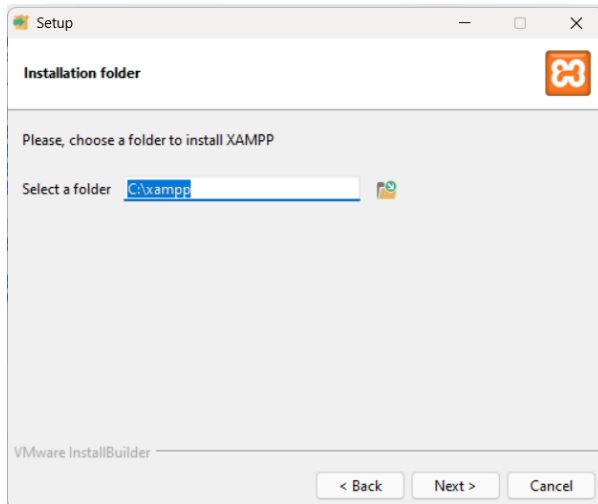
- 1) Select your OS. It will automatically start downloading.



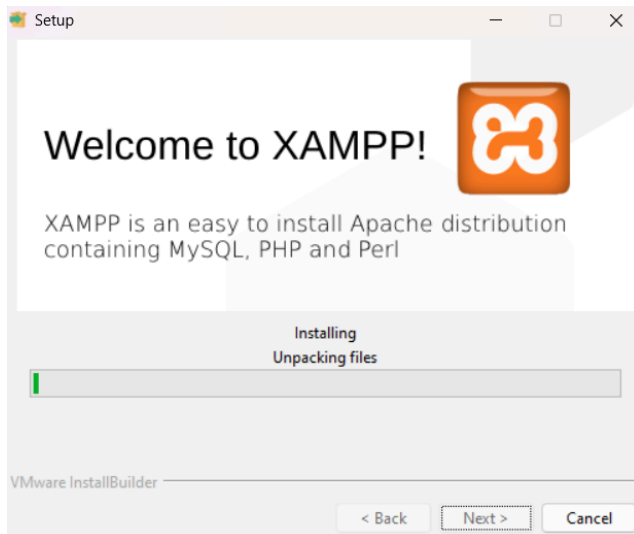
- 2) Open the setup file. Select all the required components and click next.



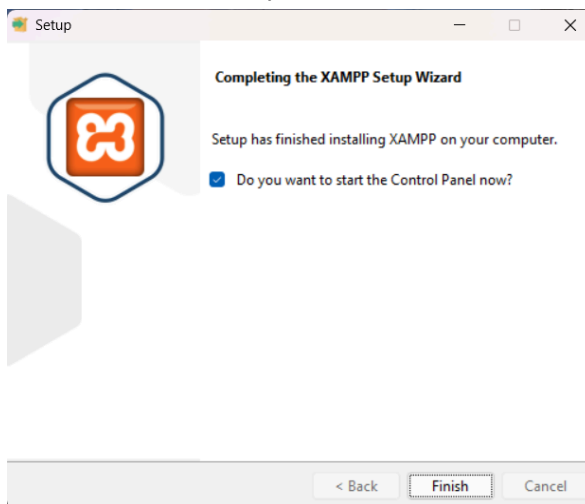
- 3) Choose the folder to install XAMPP in. Make sure the folder is empty. Click next




- 4) Select the language, click next. XAMPP starts to install



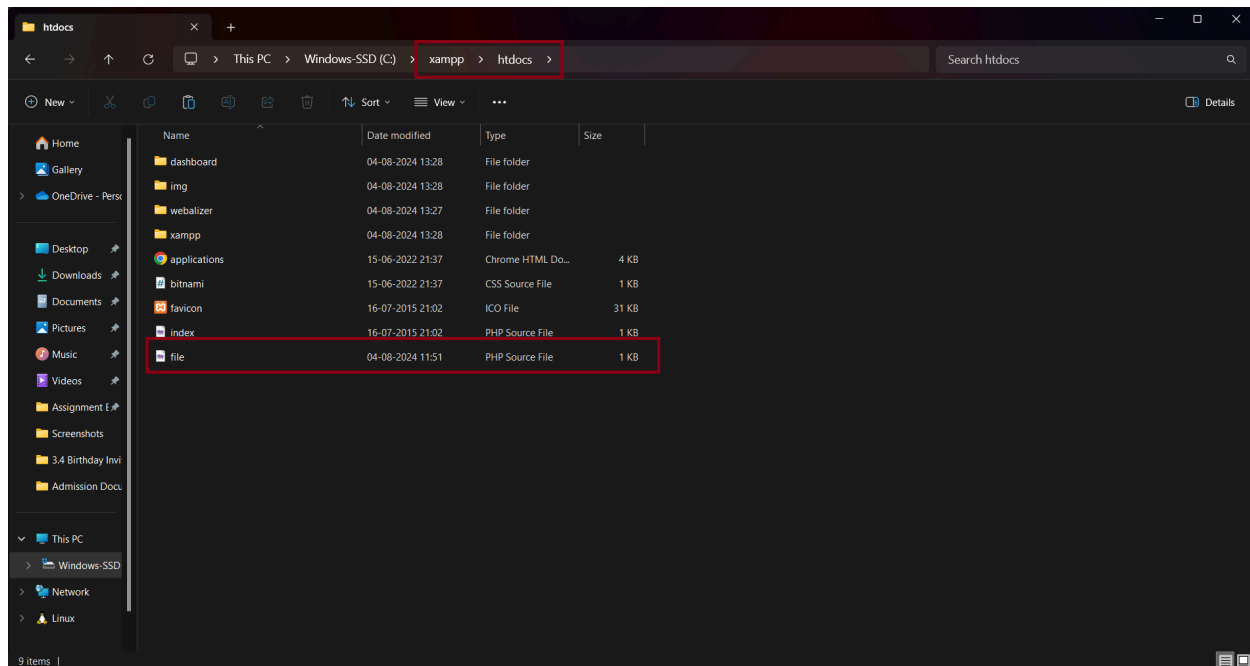
- 5) The installation is complete. Click Finish



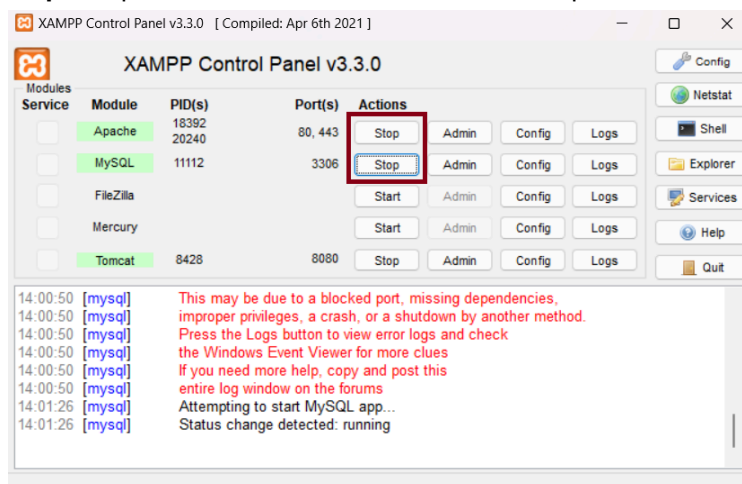
Step 2: Setup a file that is to be hosted on the server. Make sure the file has extension **.php**

Name	Date modified	Type	Size
▼ Today			
 index - Copy	04-08-2024 11:51	PHP Source File	1 KB

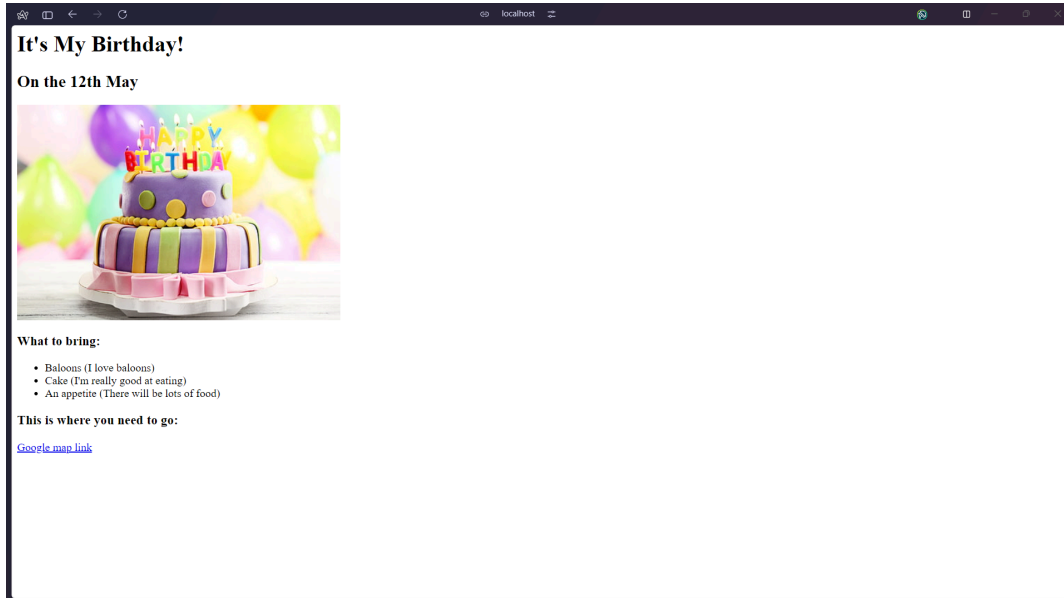
Step 3: Go to the directory where XAMPP was installed. Go to **htdocs** folder. Place your folder in this directory.



Step 4: Open XAMPP Control Panel, start the Apache service (Required) and mySQL service (if needed)

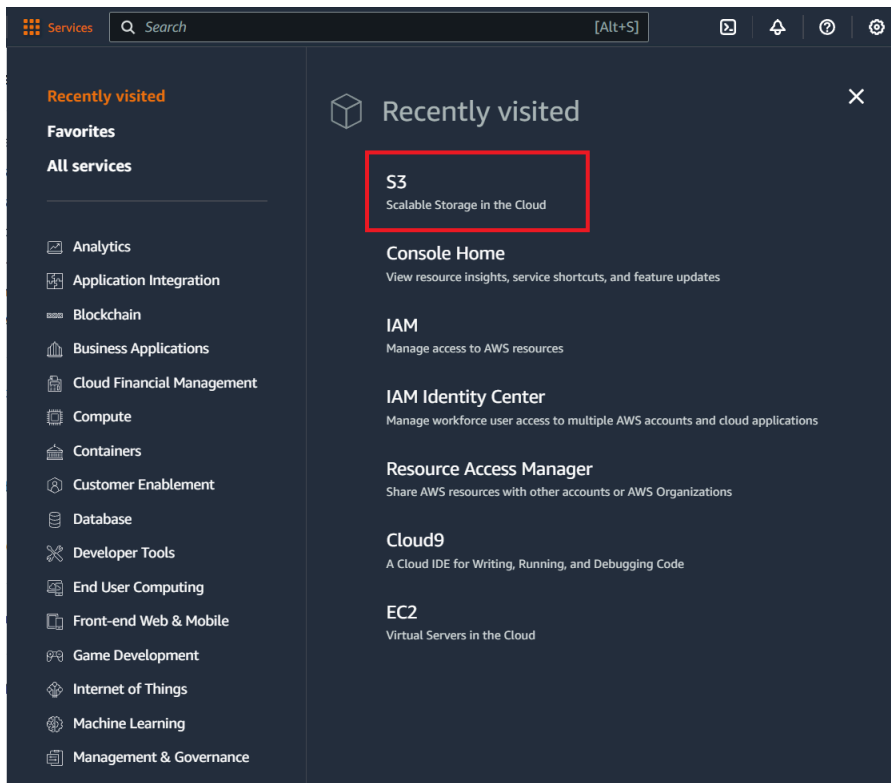


Step 5: Open your web browser. Type localhost/YOUR_FILENAME.php. This will open your website on your browser.

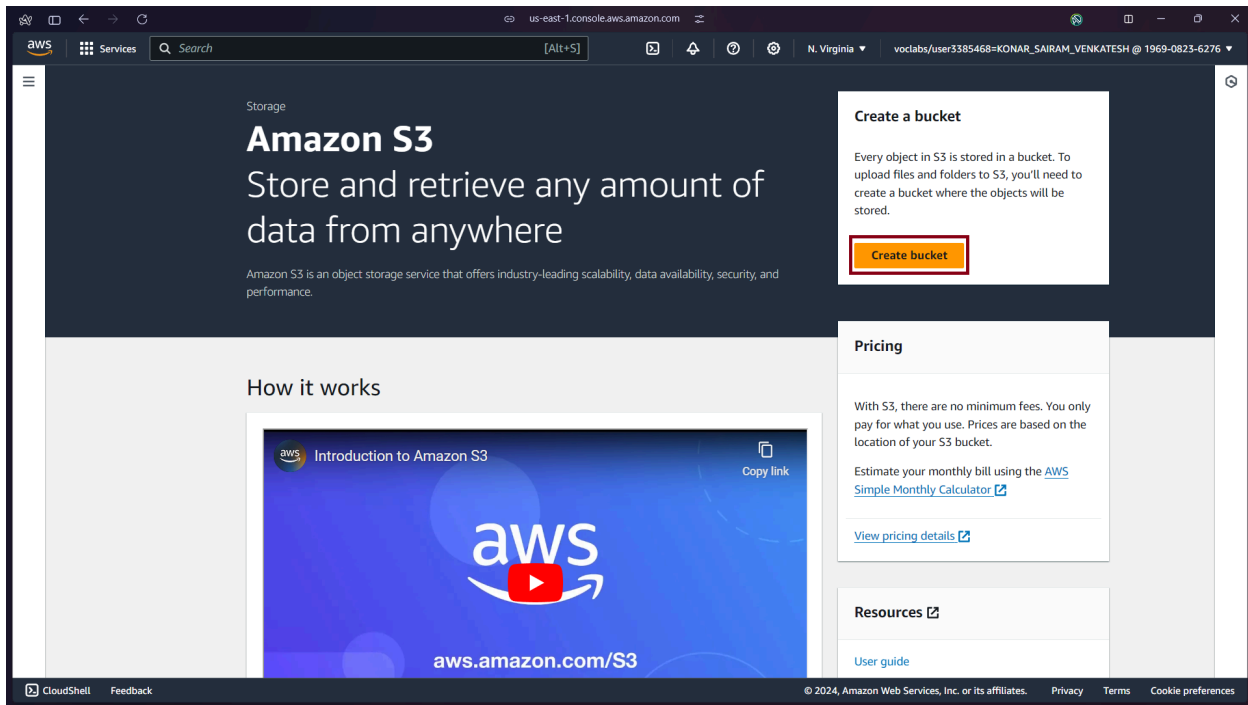


2) AWS S3

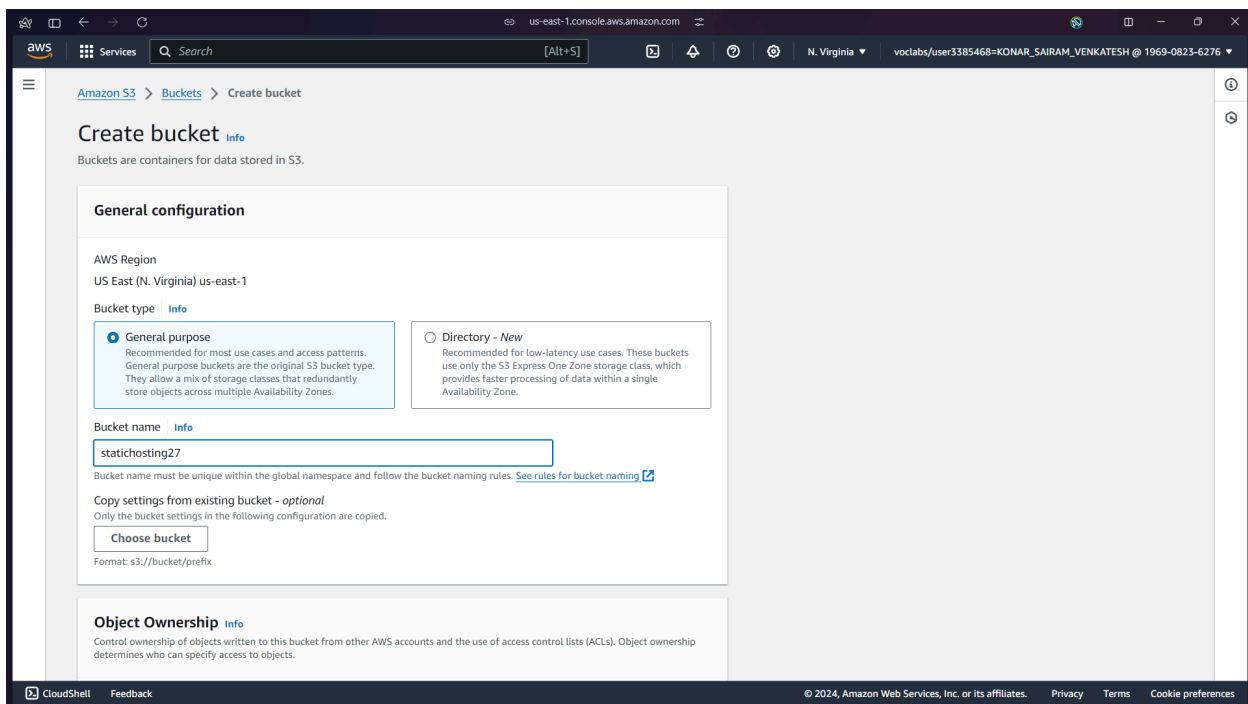
Step 1: Login to your AWS account. Go to services and open **S3**.

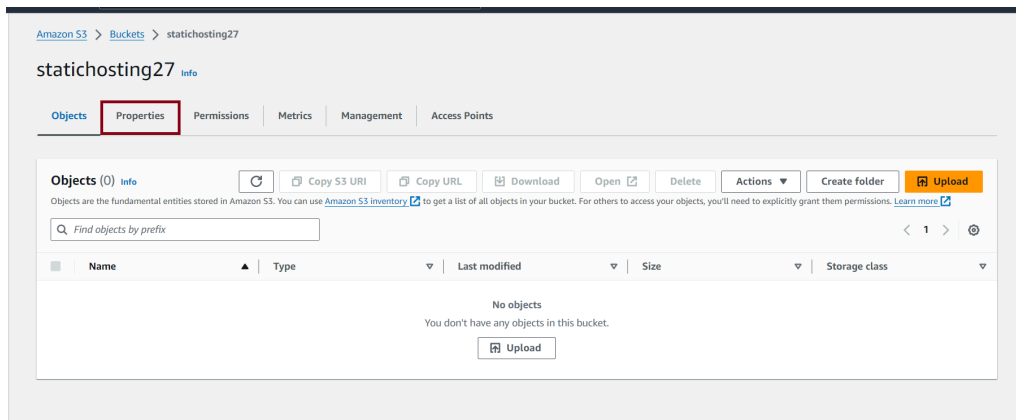
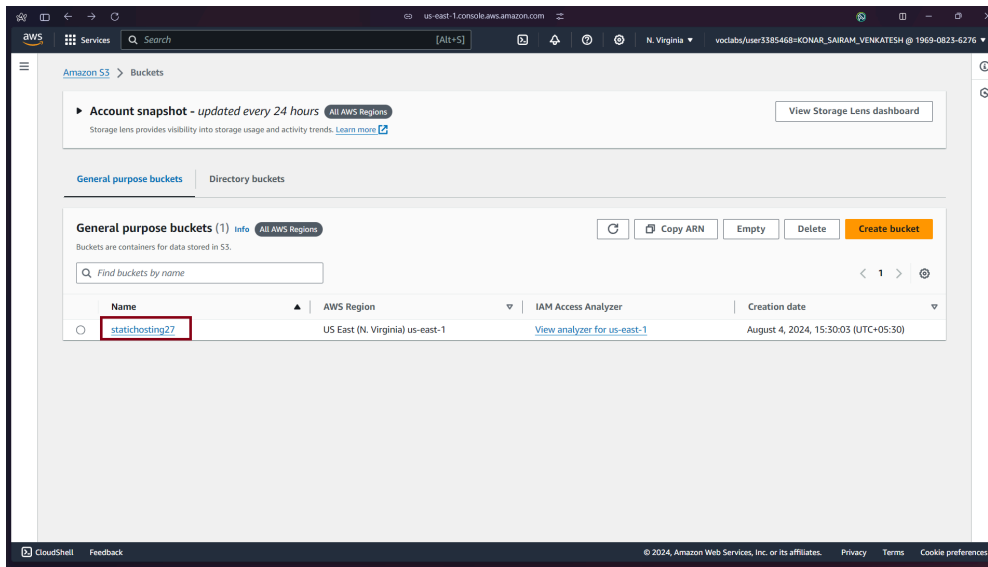
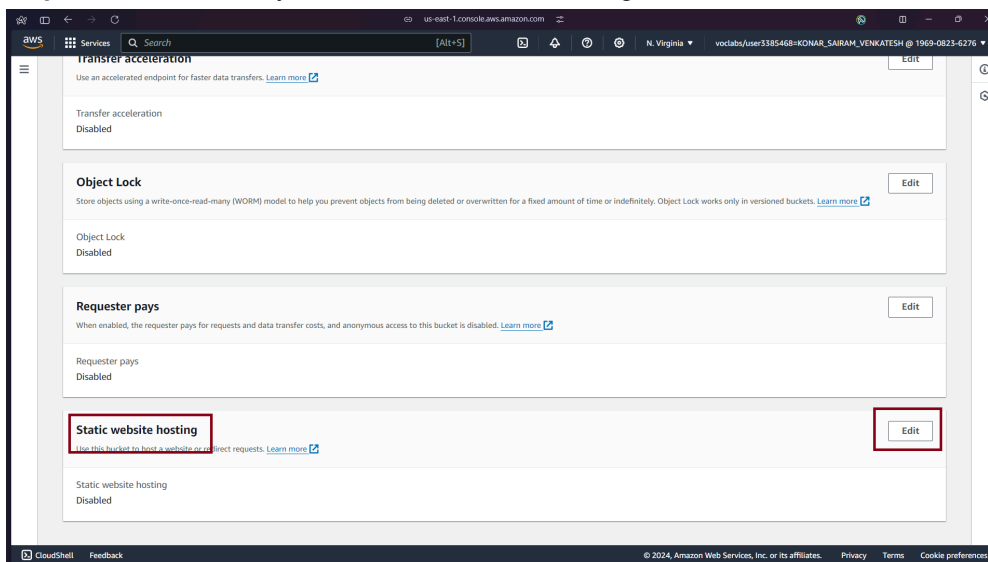


Step 2: Click on Create Bucket.

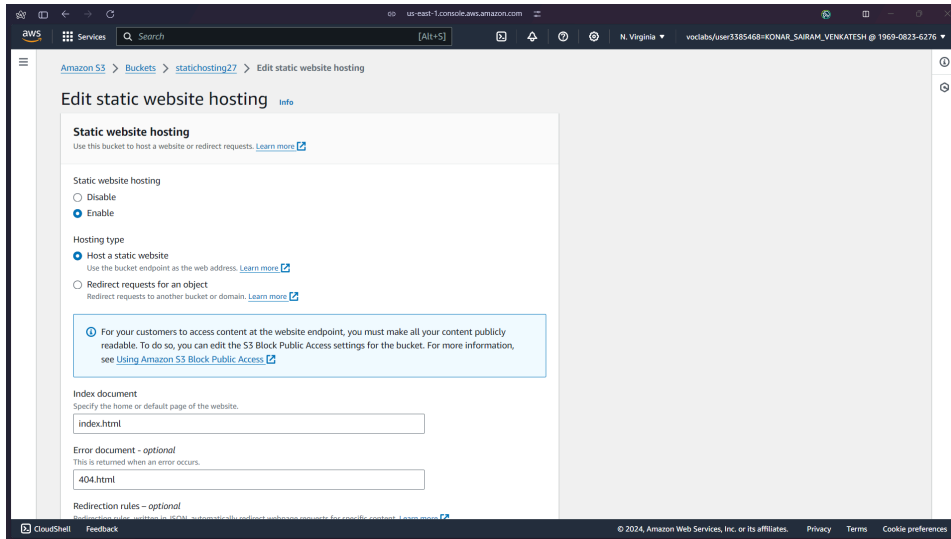


Step 3: Give a name to your bucket, keeping other options default, scroll down and click on Create Bucket.

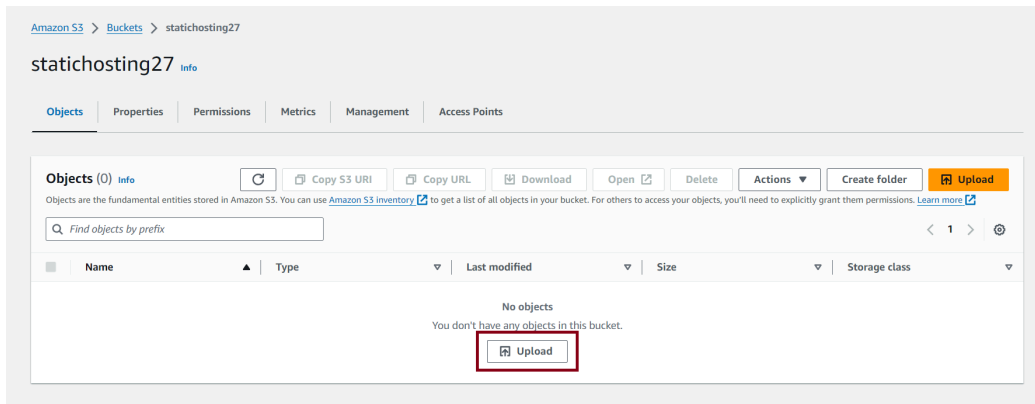


Step 4: Click on the name of your bucket and goto Properties**Step 5:** Scroll down till you find Static website hosting, click on edit

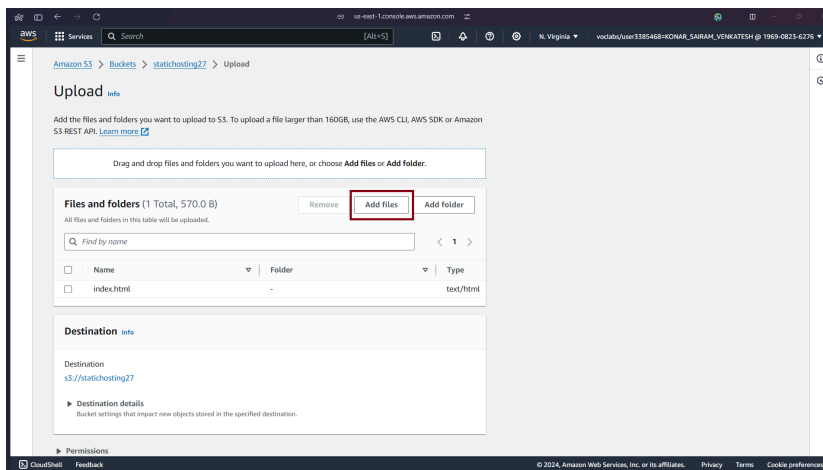
Step 6: Enable static website hosting, in Index document, write the name of your document and in error document, give name as 404.html. Save your changes.



Step 7: Go to Objects tab and click on upload file.



Step 8: Click on Add files. Add all the files you want to upload. Then scroll down and click on Upload.



Step 9: This will take you to the Objects screen. Switch to Properties and scroll down to Static Website Hosting. There you would find the link (Bucket website endpoint) to your website.

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting
Enabled

Hosting type
Bucket hosting

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://statichosting27.s3-website-us-east-1.amazonaws.com>

Step 10: Open the link. It will show a 403 forbidden error screen as the contents of the bucket are not available for public users. To change this, go to Permissions tab, go to Block public access, and click on edit.

statichosting27.s3-website-us-east-1.amazonaws.com

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 8TQ4EGP4TK06MVPB
- HostId: hF+ToadQUoCuDM8H+iFRsXdA28TGp+xiKYbjb4CICS/t+3it4ihA/tvgA1Xr1xo+JL5AhkT6hJs=

An Error Occurred While Attempting to Retrieve a Custom Error Document

- Code: AccessDenied
- Message: Access Denied

Step 11: Uncheck the Block all public access checkbox and click on save changes.

Amazon S3 > Buckets > statichosting27 > Edit Block public access (bucket settings)

Edit Block public access (bucket settings)

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

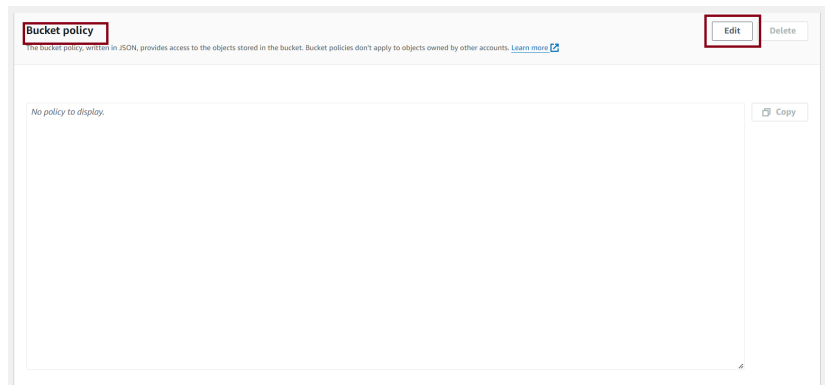
☐ **Block all public access**

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 ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Cancel Save changes

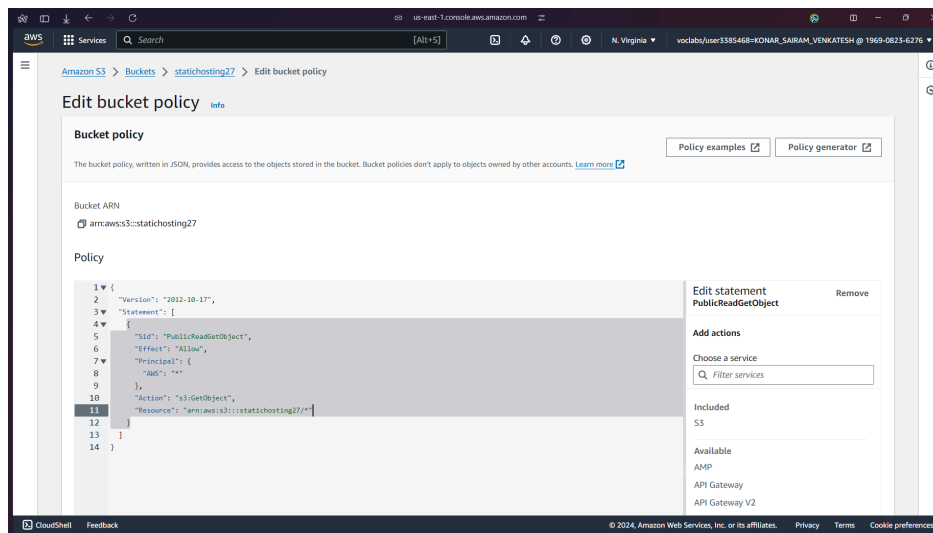
Step 12: Scroll down to bucket policy and click edit



Step 13:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "PublicReadGetObject",
      "Effect": "Allow",
      "Principal": {
        "AWS": "*"
      },
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::YOUR-BUCKET-NAME-HERE/*"
    }
  ]
}
```

Paste this code snippet in the policy text area. Replace YOUR-BUCKET-NAME-HERE with the name you have given to your bucket. Save the changes.



Step 14: Now reload the website. You can see your website

