Static Hosting [Exp 1(a)]

Aim: To develop a website and host it on:-
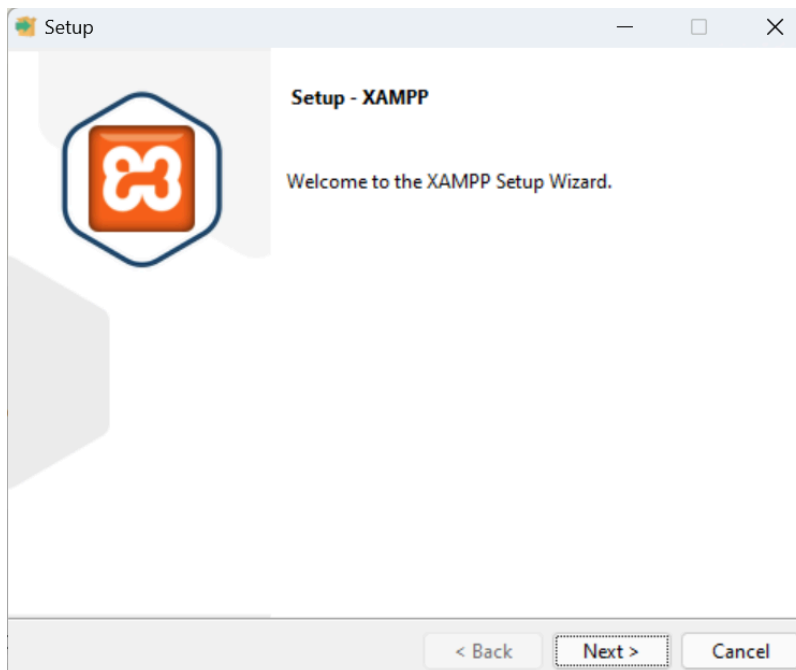1. Local machine or virtual machine.
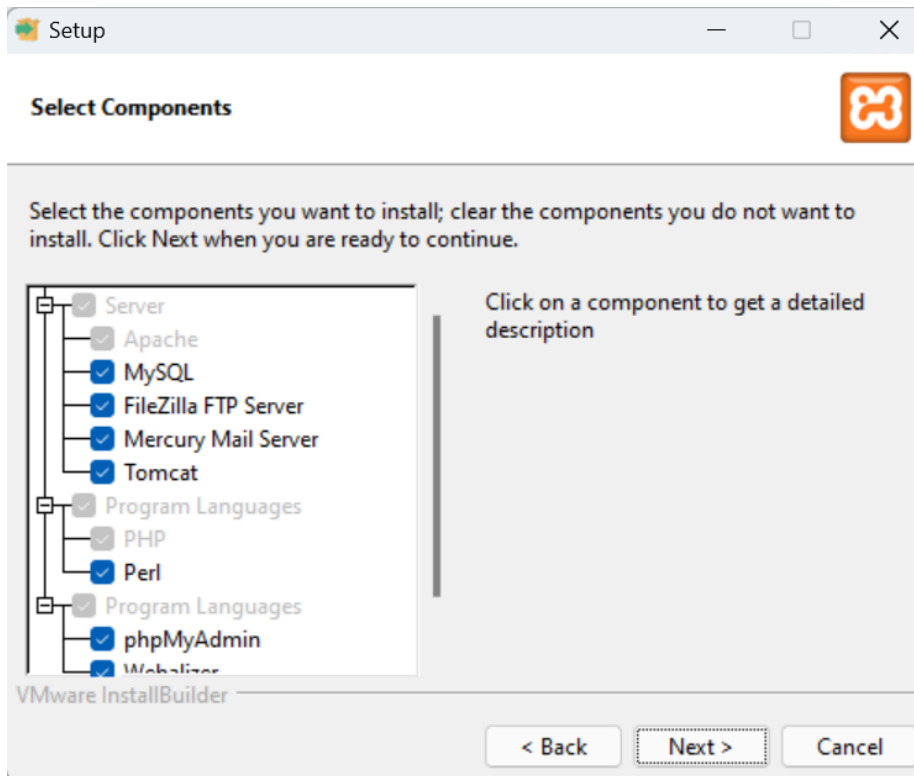2. Amazon S3 bucket.

Steps:-

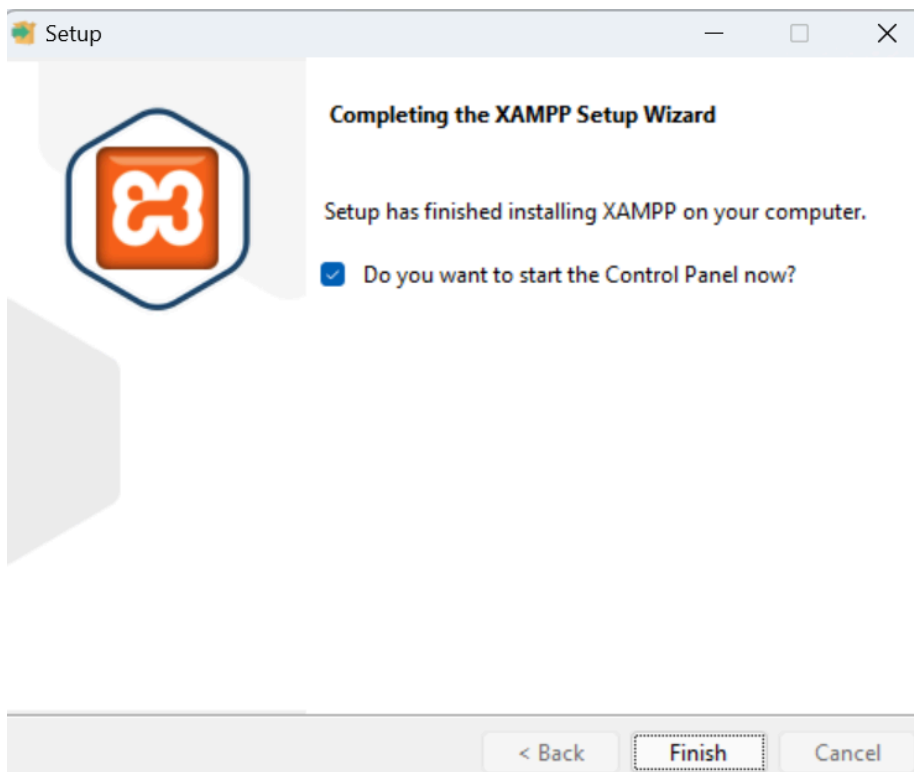- On local server using XAMPP:-

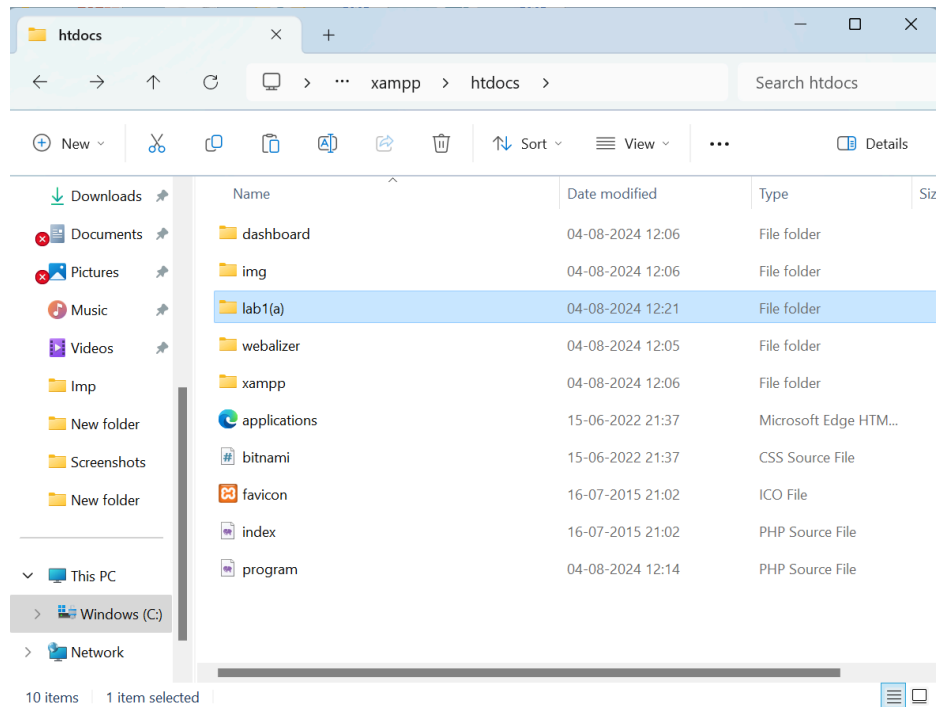Step 1: Install XAMPP.

1. Begin the setup process.

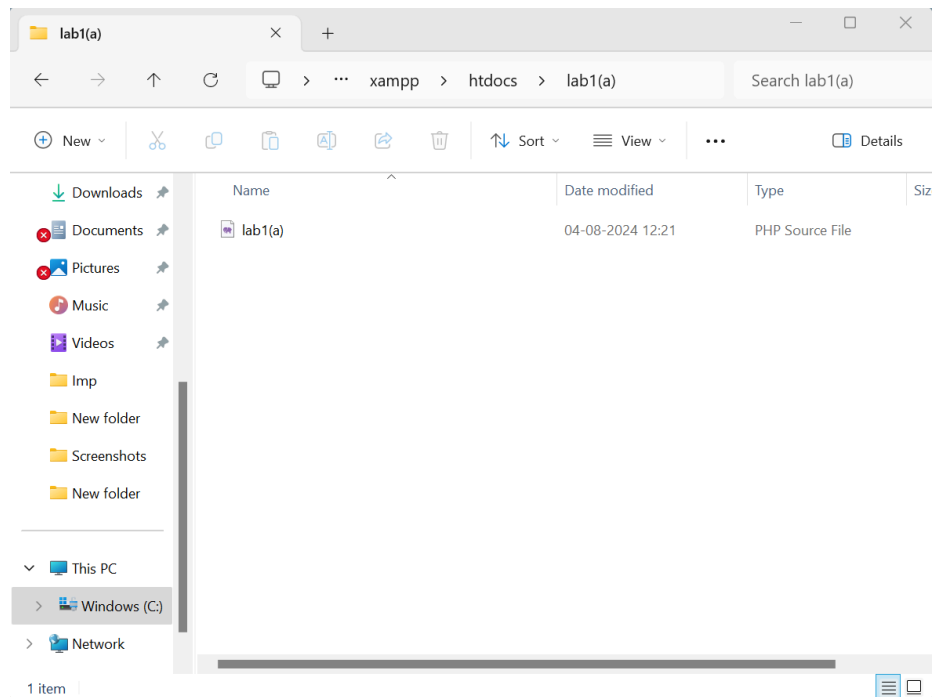2. Select the components you want to install and click Next.

3. Go through the subsequent installation steps (keeping the default options) and finish the installation.
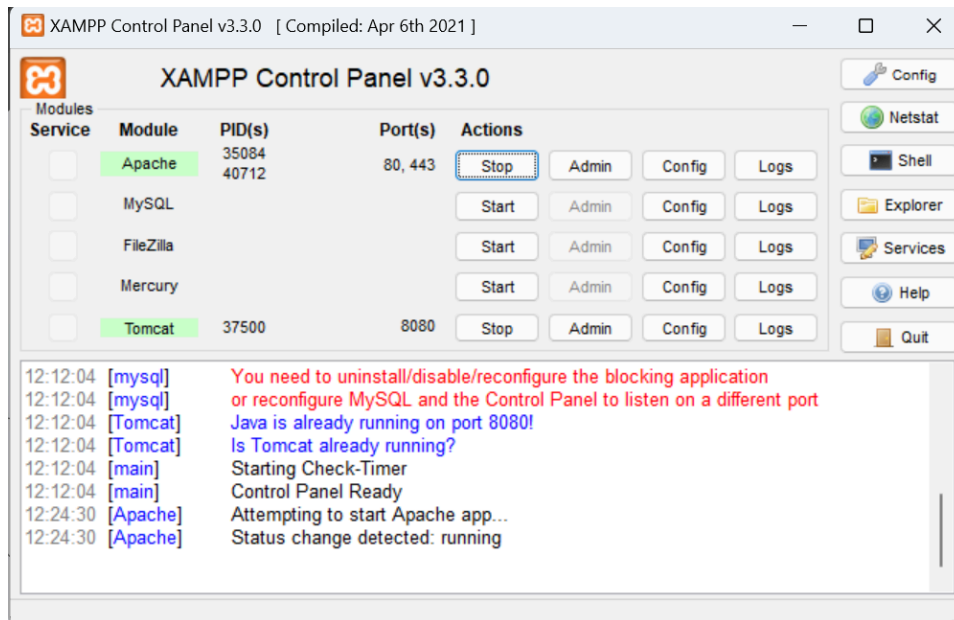
Step 2: Inside the htdocs folder inside of the xampp folder create a new folder.
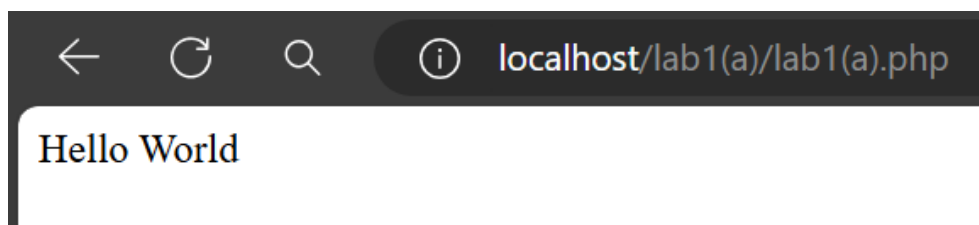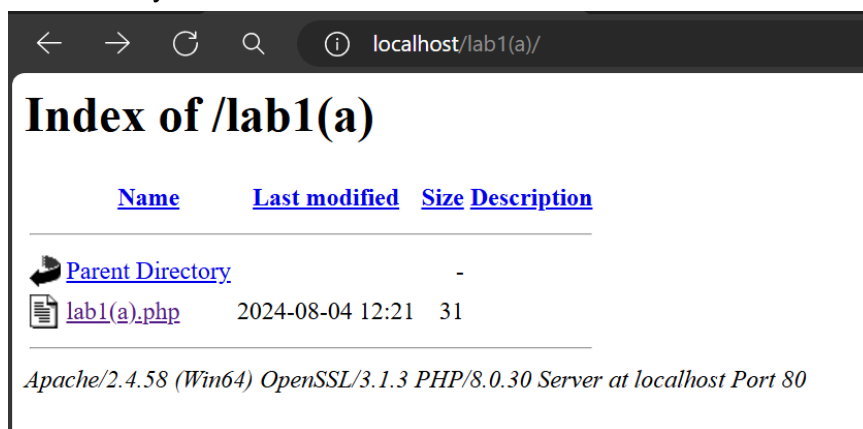

Step 3: Create a file (with extension: .php) that is to be hosted on the local server.

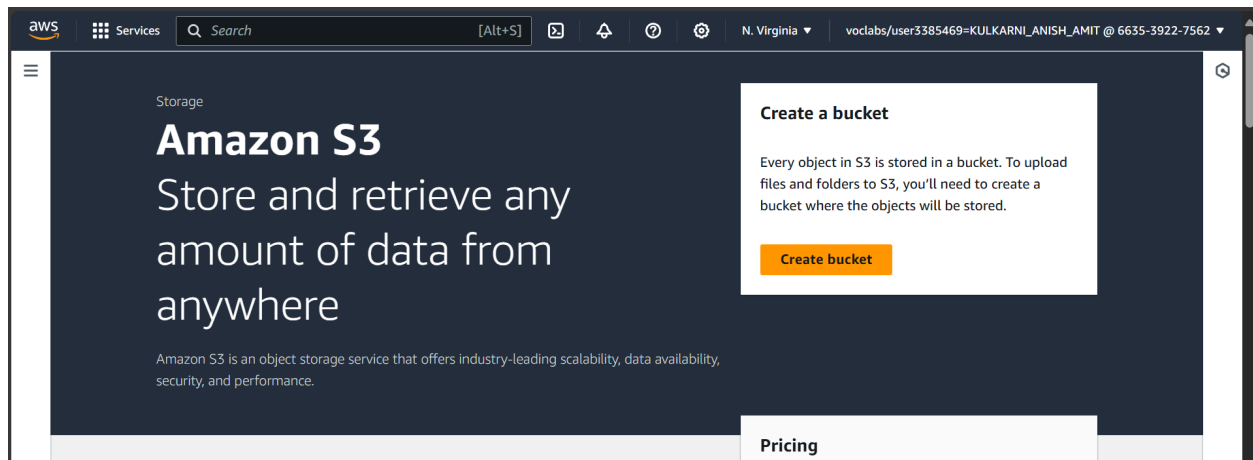Step 4: Open the XAMPP Control Panel and start the Apache service.

Step 5: Type 'localhost/YOUR_FILENAME.php into your web browser. This will open your website on your browser.
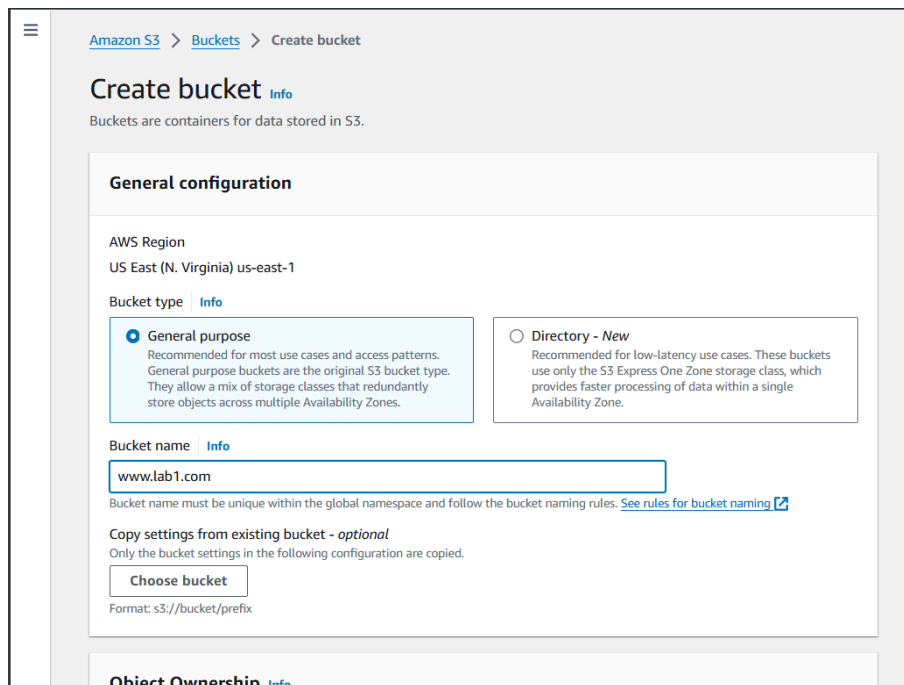
- On AWS S3:-

Step 1: Login into your AWS account, choose the S3 option in the 'Services' tab and click on 'Create Bucket'.

Step 2: Give a name to your bucket and keeping the others options default, click on 'Create Bucket'.

Step 3: In the properties of your bucket, navigate to the 'Edit static website hosting' tab and click on 'Enable'. Also, in the 'Index document' and 'Error document' boxes, enter the names of your index and error websites respectively.

Step 4: In your bucket, click on 'Upload' option, click on 'Add files' option and select the websites that you want to upload (index and error websites). Then, click on 'Upload'.
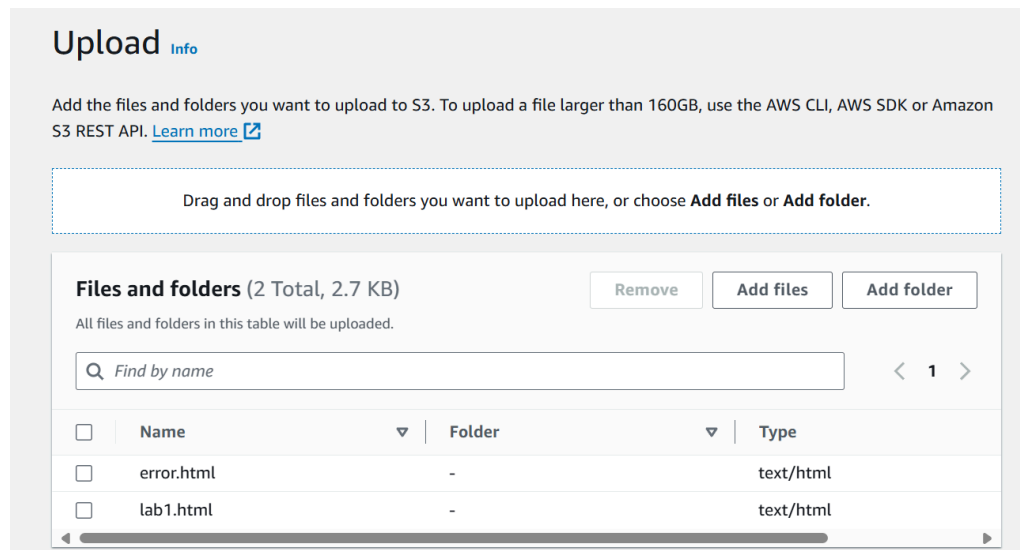
Step 5: Your files are uploaded.
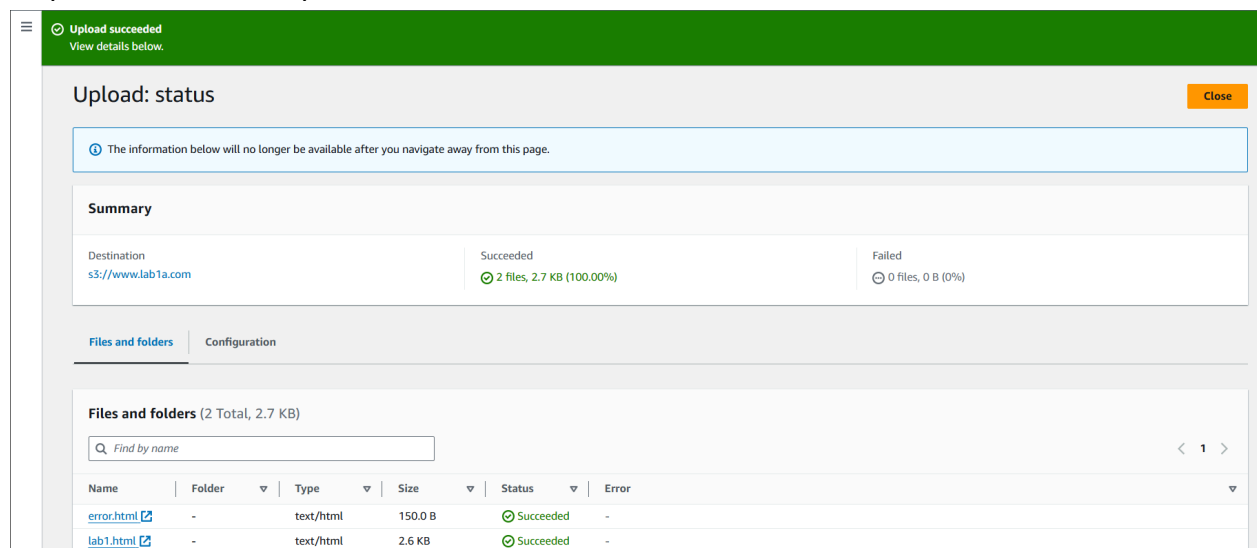
Now, as the contents of the bucket are not yet available to the public, the website does not get displayed and an error message is displayed.

Step 6: To make it public, go to permissions tab, go to 'Block public access' and click on edit. Uncheck the 'Block all public access' checkbox and click on save changes.

Step 7: Go to 'Bucket policy' tab and click edit. Paste the following code snippet into the text box (replace 'YOUR-BUCKET-NAME-HERE' with the name of your bucket and save changes.

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

Block all public access

⚠ Off

▶ Individual Block Public Access settings for this bucket

Bucket policy   Edit   Delete

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. Learn more ☑

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "PublicReadGetObject",
            "Effect": "Allow",
            "Principal": {
                "AWS": "*"
            },
            "Action": "s3:GetObject",
            "Resource": "arn:aws:s3:::www.lab1a.com/*"
        }
    ]
}
```
⎙ Copy

Step 8: Click on 'Bucket website endpoint' in the 'Static website hosting' tab in your bucket. Your website is visible.

← ↻ Q   ⚠ Not secure │ www.lab1a.com.s3-website-us-east-1.amazonaws.com

Hello World!

This is a lab1(a) website

← ↻ Q   ⚠ Not secure │ www.lab1a.com.s3-website-us-east-1.amazonaws.com/lab2.html

Error Message