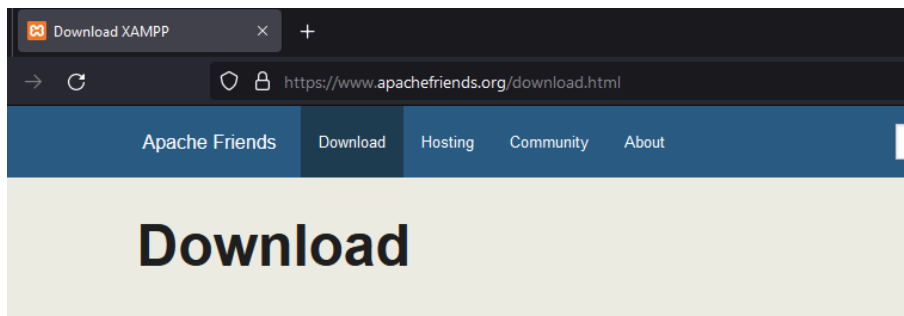


## Experiment No. 1(A)

**Aim:** To develop a website and host it on local machine or virtual machine and Hosting a static website using Amazon S3 Bucket

### 1. To develop a website and host it on your local machine on a VM using XAMPP

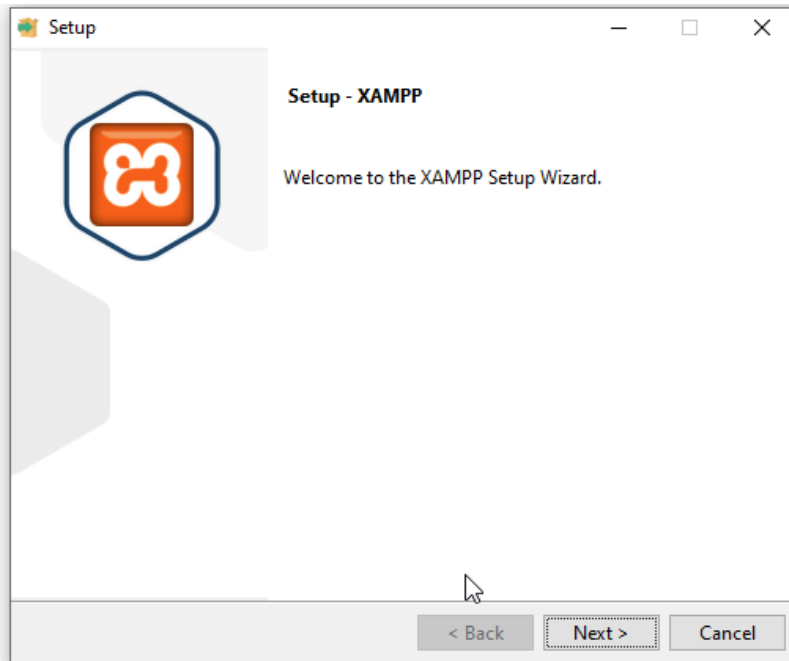
- 1) Goto official website of XAMPP and download the software as per your OS



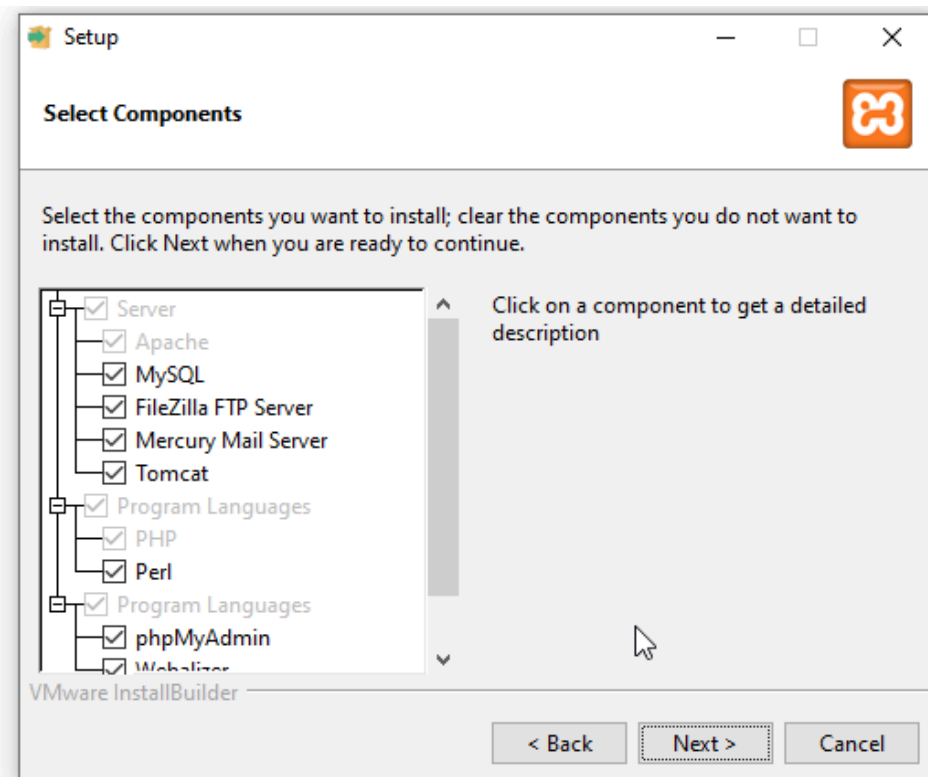
XAMPP is an easy to install Apache distribution containing MariaDB, PHP, and Perl. Just download and start the installer. It's that easy. Installers created using [InstallBuilder](#).

XAMPP for Windows 8.0.30, 8.1.25 & 8.2.12					
Version	Checksum		Size		
8.0.30 / PHP 8.0.30	<a href="#">What's Included?</a>	md5 sha1	<a href="#">Download (64 bit)</a>	144 Mb	
8.1.25 / PHP 8.1.25	<a href="#">What's Included?</a>	md5 sha1	<a href="#">Download (64 bit)</a>	148 Mb	
8.2.12 / PHP 8.2.12	<a href="#">What's Included?</a>	md5 sha1	<a href="#">Download (64 bit)</a>	149 Mb	

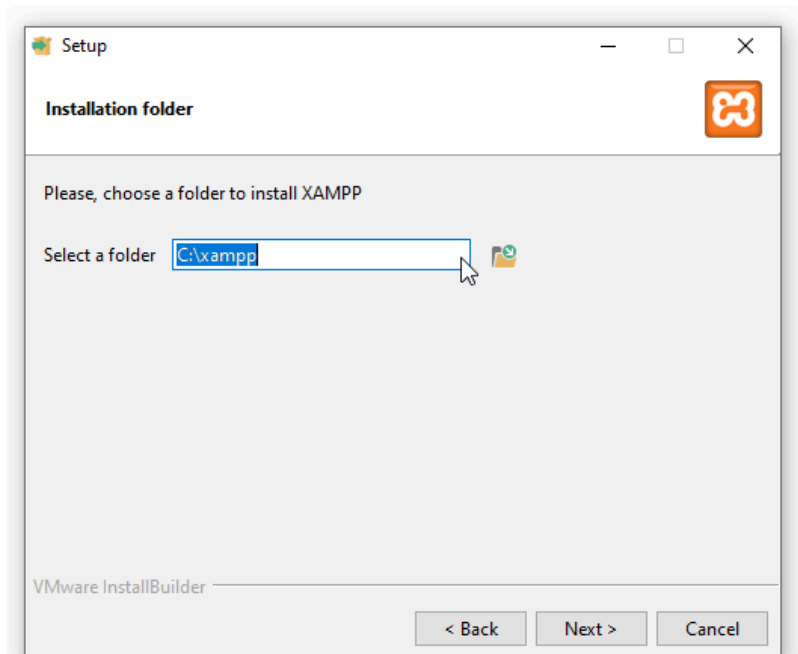
- 2) After Downloading, open it for installation, Click on next



### 3) Select components to install



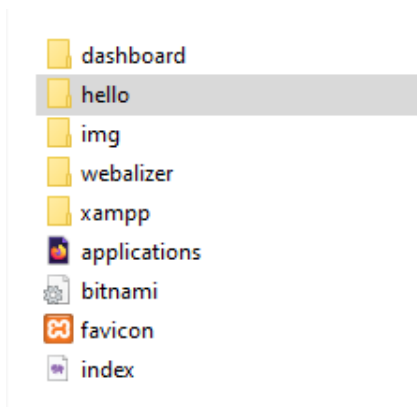
### 4) Select installation location, and confirm it



5) After installation, goto folder where XAMPP is installed, go to htdocs

name	last modified
anonymous	8/11/2024 2:29 AM
apache	8/11/2024 2:29 AM
cgi-bin	8/11/2024 2:33 AM
contrib	8/11/2024 2:29 AM
FileZillaFTP	8/11/2024 2:33 AM
htdocs	8/11/2024 2:29 AM
img	8/11/2024 2:29 AM
install	8/11/2024 2:33 AM
licenses	8/11/2024 2:29 AM
locale	8/11/2024 2:29 AM

6) Create new folder named anything we want our URI to be.



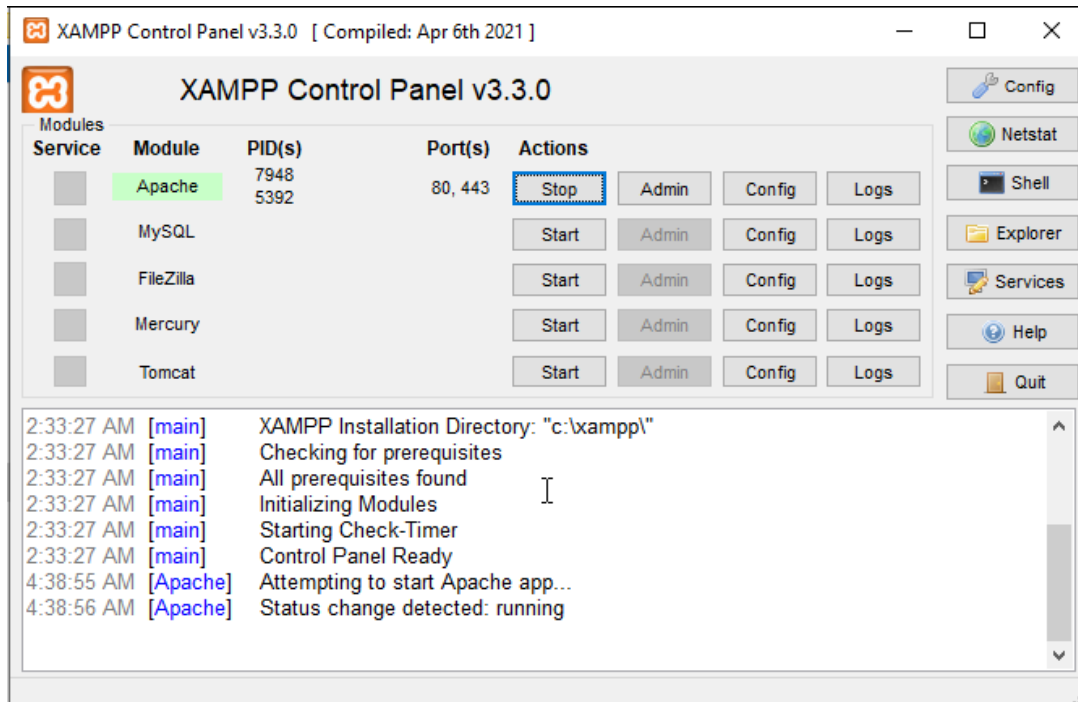
7) Create a file index.php and paste the following code.

A screenshot of a Notepad window titled '\*hello.php - Notepad'. The window contains the following HTML code:

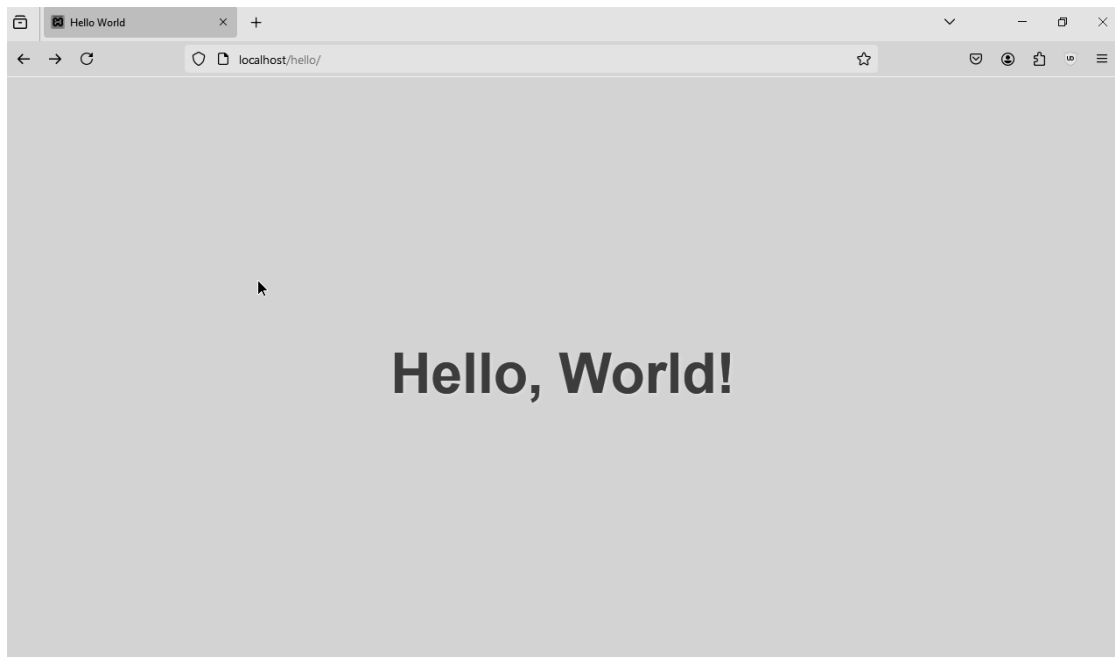
```
File Edit Format View Help
<title>Hello World</title>
<style>
  body {
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    background-color: #282c34;
    margin: 0;
    font-family: Arial, sans-serif;
    color: white;
  }
  h1 {
    font-size: 4rem;
    color: #61dafb;
    text-shadow: 2px 2px 5px rgba(0, 0, 0, 0.3);
  }
</style>
</head>
<body>
  <h1>Hello, World!</h1>
</body>
</html>";
?>
```

The status bar at the bottom shows 'Ln 27, Col 27', '100%', 'Windows (CRLF)', and 'UTF-8'.

8) Now go to XAMPP control panel and start Apache server

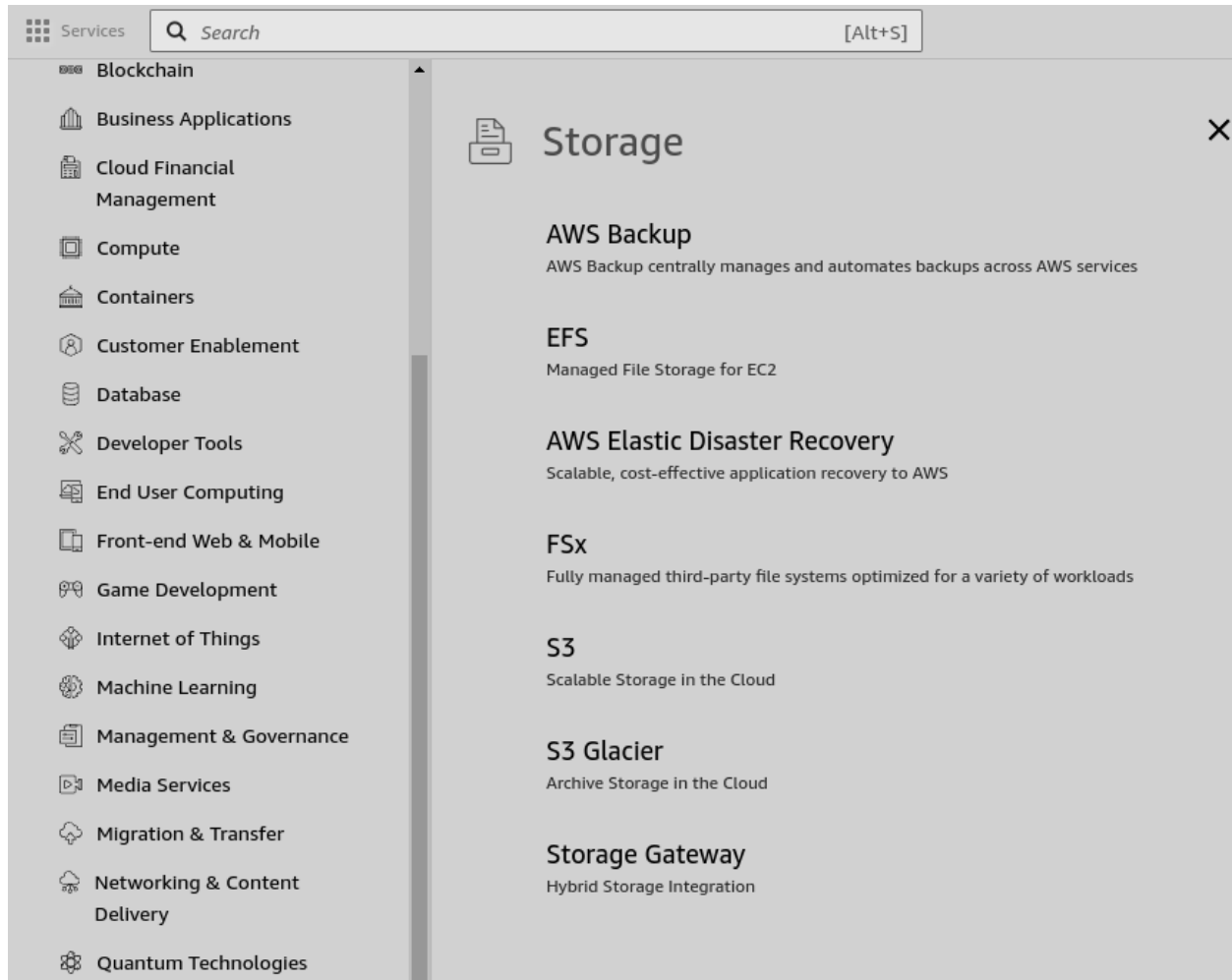


- 9) Now open browser and enter [http://localhost/folder\\_name](http://localhost/folder_name). This will open webpage locally on our machine



## 2. Hosting a static website on Amazon S3

1) Go to services then under Storage, select S3



2) Create a new bucket



3) Enter Name of the bucket

### General configuration

AWS Region  
Asia Pacific (Mumbai) ap-south-1

Bucket name Info

host-web-alok

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Copy settings from existing bucket - *optional*  
Only the bucket settings in the following configuration are copied.

**Choose bucket**

Format: s3://bucket/prefix

- 4) Disable “Block all public access” to make the contents of bucket publicly accessible

### Block Public Access settings for this bucket

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 this bucket and its 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 this bucket 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.

- 5) Leaving the remaining configuration to it's default, click on Create Bucket

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

Cancel Create bucket

## 6) A new bucket will be created

General purpose buckets (1) [info](#) [All AWS Regions](#)

Refresh Copy ARN Empty Delete Create bucket

< 1 > ⊕

Name	AWS Region	IAM Access Analyzer	Creation date
<input type="radio"/> <a href="#">host-web-alok</a>	Asia Pacific (Mumbai) ap-south-1	<a href="#">View analyzer for ap-south-1</a>	August 7, 2024, 20:26:35 (UTC+05:30)

## 7) Now to host a static web page, open the bucket we created, goto Properties, edit “Static Web hosting settings”

Static website hosting Edit

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

Static website hosting  
Disabled

## 8) Enable Static web Hosting

Edit static website hosting [info](#)

Static website hosting

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

Static website hosting

☒ Disable

☐ Enable

Cancel Save changes

## 9) After enabling, we need to enter the names of files two files, one for main file that would be displayed when page loads and the other when some error occurs. Name those files and save it



**Hosting type**

☒ **Host a static website**  
Use the bucket endpoint as the web address. [Learn more](#)

☐ **Redirect requests for an object**  
Redirect requests to another bucket or domain. [Learn more](#)

**i** For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

**Index document**  
Specify the home or default page of the website.

index.html

**Error document - optional**  
This is returned when an error occurs.

error.html

**Redirection rules – optional**

10) After naming, go to objects and upload the files you mentioned in the static web hosting settings page

**Upload** Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

**Files and folders (2 Total, 1.3 KB)** Remove Add files Add folder

All files and folders in this table will be uploaded.

<input type="checkbox"/>	Name	Folder
<input type="checkbox"/>	index.html	-
<input type="checkbox"/>	error.html	-

11) Now to make sure our page is accessible to public, we need to change bucket policy. To change it, go to permissions and edit Bucket policy.

Change resource arn as per your bucket name

```
Policy
1
2 {
3   "Version": "2012-10-17",
4   "Statement": [
5     {
6       "Sid": "PublicReadGetObject",
7       "Effect": "Allow",
8       "Principal": {
9         "AWS": "*"
10      },
11      "Action": "s3:GetObject",
12      "Resource": "arn:aws:s3:::host-web-alok/*"
13    }
14  ]
15 }
```

12) Now we can go to home page of our bucket and our static page will be loaded

