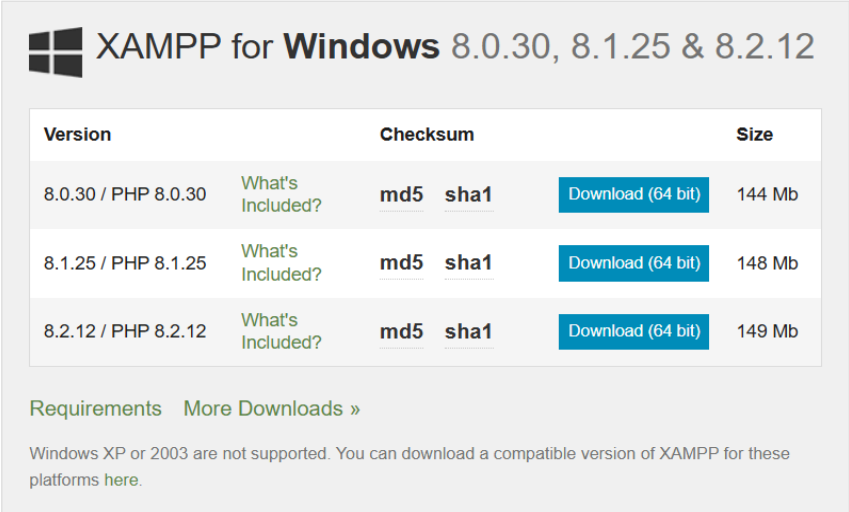


Aim : To develop a website and host it on your local machine on a VM

1. Find a web server that supports PHP and MYSQL

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

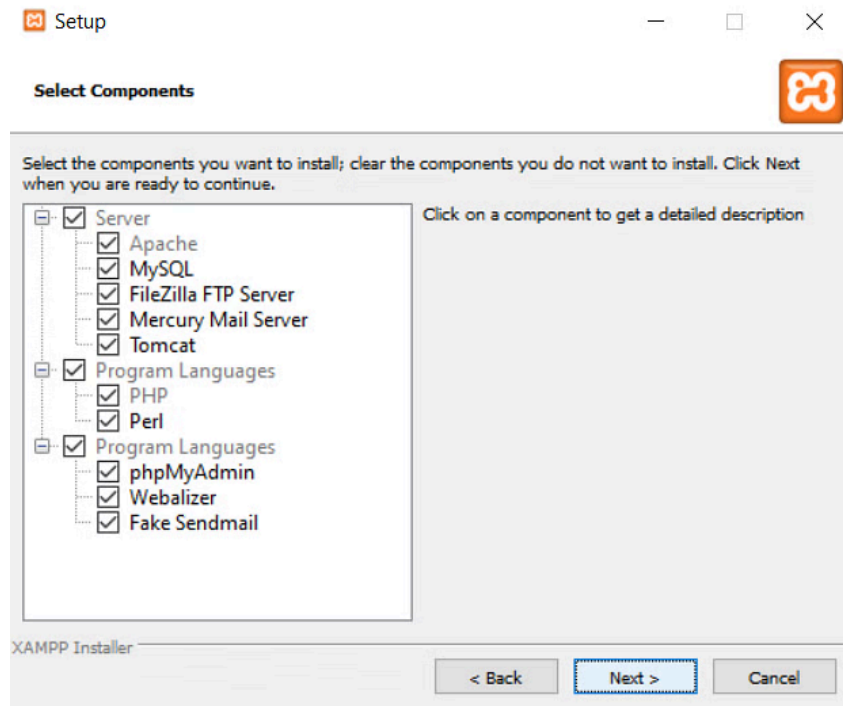
Version		Checksum		Size
8.0.30 / PHP 8.0.30	What's Included?	md5	sha1	Download (64 bit) 144 Mb
8.1.25 / PHP 8.1.25	What's Included?	md5	sha1	Download (64 bit) 148 Mb
8.2.12 / PHP 8.2.12	What's Included?	md5	sha1	Download (64 bit) 149 Mb

[Requirements](#) [More Downloads »](#)

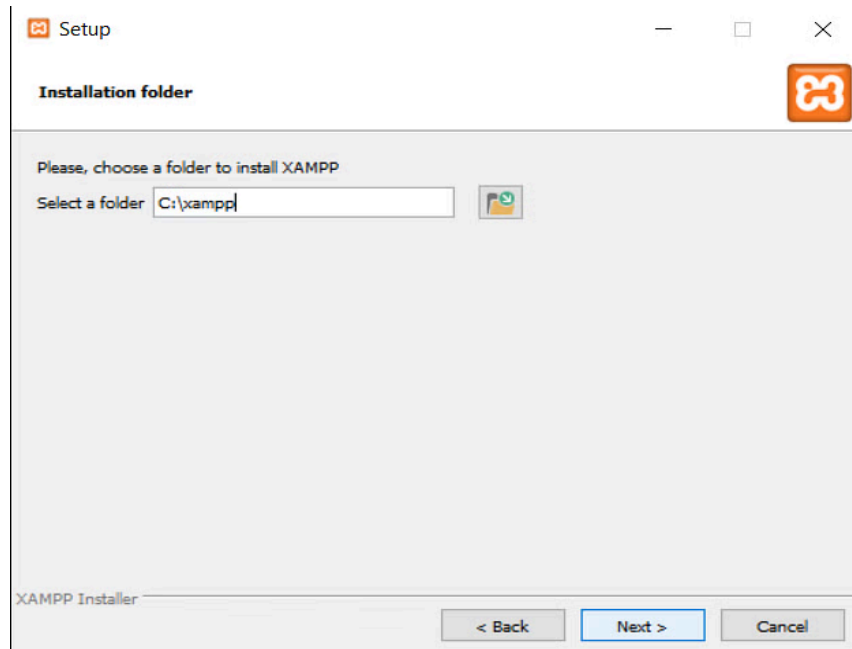
Windows XP or 2003 are not supported. You can download a compatible version of XAMPP for these platforms [here](#).

2. Download the latest version of Xampp and MYSQL DB

3. Once downloaded setup and begin the installation process and, in the “Select Components” section, select all the required components



4. Keep the default directory “C:\xampp” and click on “next” to complete the installation.



5. Go to “C:\xampp\htdocs” and inside it, create a folder called demo (or any name you want)

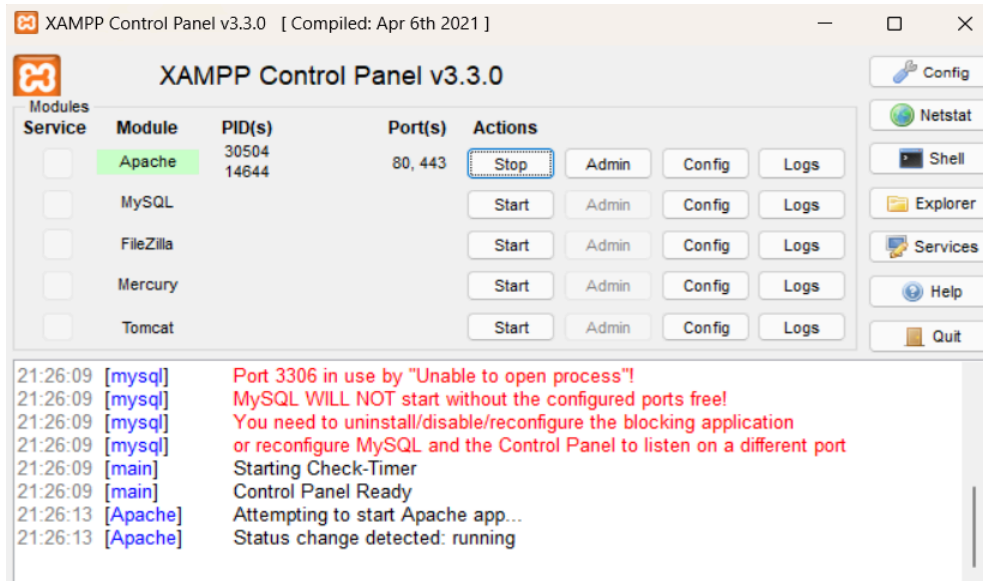
> This PC > OS (C:) > xampp > htdocs >

Name	Date modified	Type	Size
dashboard	09-04-2021 01:26	File folder	
demo	09-04-2021 01:30	File folder	
img	09-04-2021 01:26	File folder	
webalizer	09-04-2021 01:26	File folder	
xampp	09-04-2021 01:26	File folder	
applications.html	27-08-2019 19:32	Microsoft Edge HT...	4 KB
bitnami.css	27-08-2019 19:32	Cascading Style Sh...	1 KB
favicon.ico	16-07-2015 21:02	Icon	31 KB
index.php	16-07-2015 21:02	PHP File	1 KB

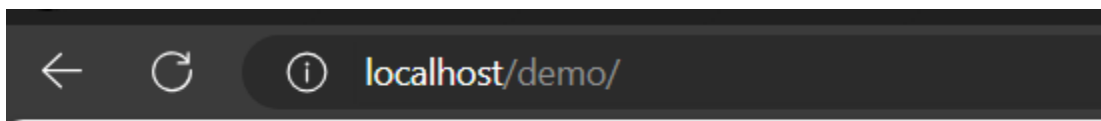
6. Open the folder and create a file name “index.php” and write the required script

```
index.php X
C: > xampp > htdocs > demo > index.php
1  <?php
2
3
4  echo "Dynamic Hosting through apache server for lab of adv devops";
5
6
7
```

7. To see the script output, open the XAMPP control panel and start Apache to host the local web server, where our script will be running.



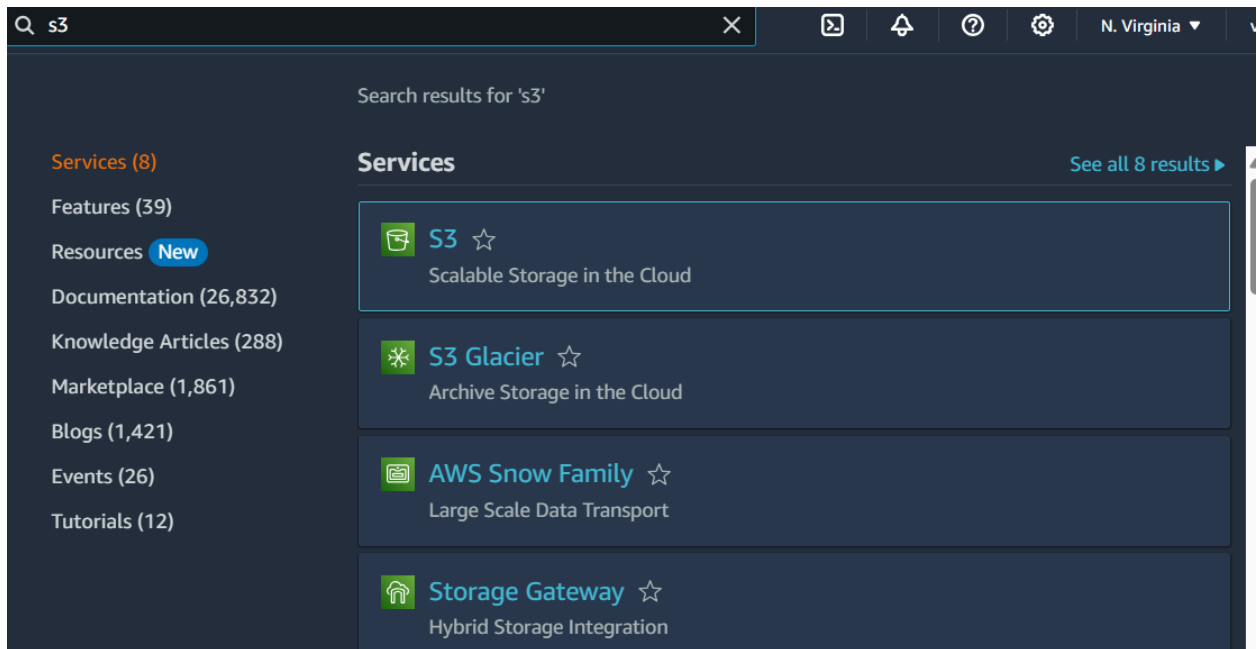
8. Navigate to your browser and type in “localhost/demo/” in the address bar to view the output.



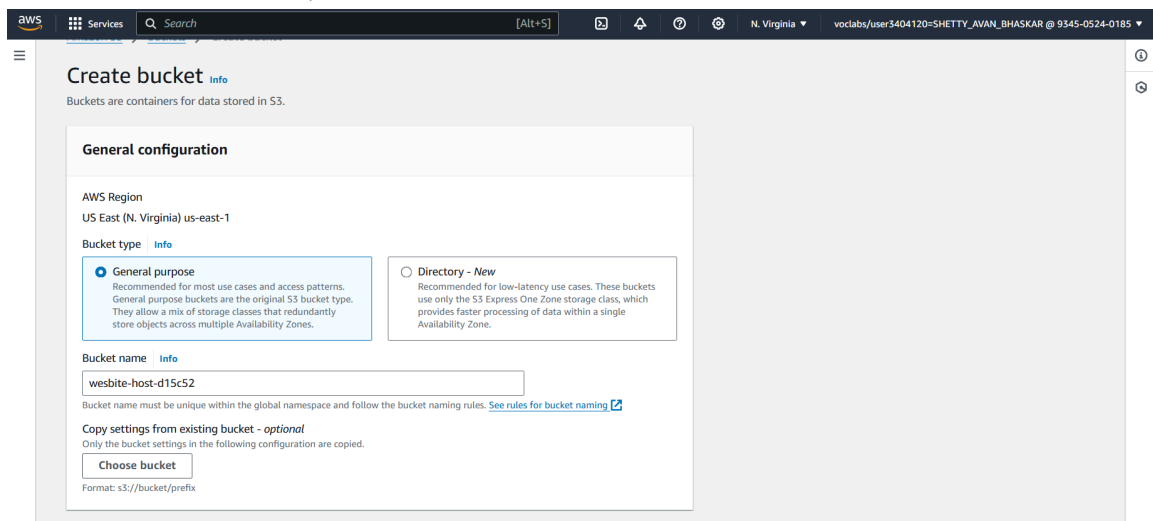
Dynamic Hosting through apache server for lab of adv devops

AWS S3 BUCKET:

1. Open the aws Console and search for S3 bucket



2. Now create a bucket of <-your name-> mine as 'website-host-d15c-52'



3. Scroll down and uncheck the Block of public access (as we are making our static website available for all users in public domain)

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.

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.

4. Click on Create bucket option

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

5. You go back to your buckets page and see the bucket has been created

General purpose buckets

Directory buckets

General purpose buckets (1)

Info

All AWS Regions

Refresh

Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3.

Find buckets by name

< 1 > ⚙

Name	AWS Region	IAM Access Analyzer	Creation date
<input type="radio"/> website-host-d15c52	US East (N. Virginia) us-east-1	View analyzer for us-east-1	August 7, 2024, 20:36:25 (UTC+05:30)

- Now upload your static website folder or files, including any images if available. Once uploaded, you will see the message 'Upload successful'

[Amazon S3](#) > [Buckets](#) > [website-host-d15c52](#) > Upload

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 (1 Total, 1.9 KB) Remove Add files Add folder

All files and folders in this table will be uploaded.

< 1 >

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

Upload succeeded
View details below.

Upload: status Close

The information below will no longer be available after you navigate away from this page.

Summary

Destination s3://website-host-d15c52	Succeeded ✔ 1 file, 1.9 KB (100.00%)	Failed ✖ 0 files, 0 B (0%)
---	---	-------------------------------

- Go to Properties and when you scroll at the bottom click edit static website hosting
Enable -> host a static website -> input the name of your file uploaded and click save

The screenshot shows the AWS Management Console interface for editing static website hosting on the S3 bucket 'wesbite-host-d15c52'. The breadcrumb navigation is 'Amazon S3 > Buckets > wesbite-host-d15c52 > Edit static website hosting'. The main heading is 'Edit static website hosting' with an 'Info' link. Below this, the 'Static website hosting' section has two options: 'Disable' and 'Enable', with 'Enable' selected. The 'Hosting type' section has two options: 'Host a static website' (selected) and 'Redirect requests for an object'. A blue information box states: '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'. The 'Index document' field is set to 'index.html'. The 'Error document - optional' field is empty. A green success message at the bottom reads: 'Successfully edited static website hosting.' Below this, the bucket 'wesbite-host-d15c52' is shown with tabs for 'Objects', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. The 'Properties' tab is active, showing a 'Bucket overview' table with the following data:

Bucket overview		
AWS Region US East (N. Virginia) us-east-1	Amazon Resource Name (ARN) arn:aws:s3:::wesbite-host-d15c52	Creation date August 7, 2024, 20:36:25 (UTC+05:30)

8. With this your link for the static website through S3 bucket will be generated

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://wesbite-host-d15c52.s3-website-us-east-1.amazonaws.com>

9. Now go to the Permissions and edit the bucket policy by adding this

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "PublicReadGetObject",
      "Effect": "Allow",
      "Principal": {
        "AWS": "*"
      },
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::wesbite-host-d15c52/*"
    }
  ]
}
```

Just change the arn according to your bucket name and click save

Amazon S3 > Buckets > wesbite-host-d15c52 > Edit bucket policy

Edit bucket policy

Bucket policy

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](#)

Bucket ARN
[arn:aws:s3:::wesbite-host-d15c52](#)

Policy

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Sid": "PublicReadGetObject",
6       "Effect": "Allow",
7       "Principal": {
8         "AWS": "*"
9       },
10      "Action": "s3:GetObject",
11      "Resource": "arn:aws:s3:::wesbite-host-d15c52/*"
12    }
13  ]
14 }
```

10. Once edited the bucket policy click on the link in the generated back in step 8 and your website is hosted through aws S3 bucket

