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Exp 1A :Static Hosting:

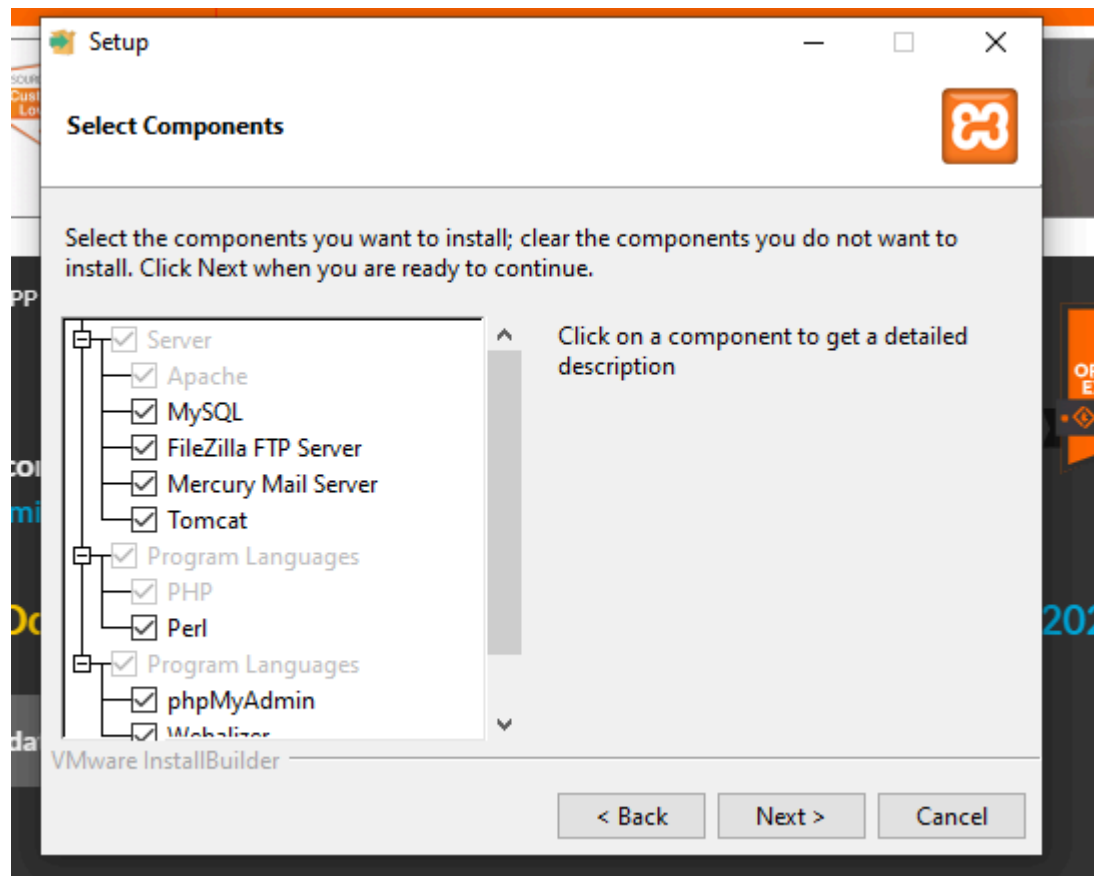
1) On local server (XAMPP)

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

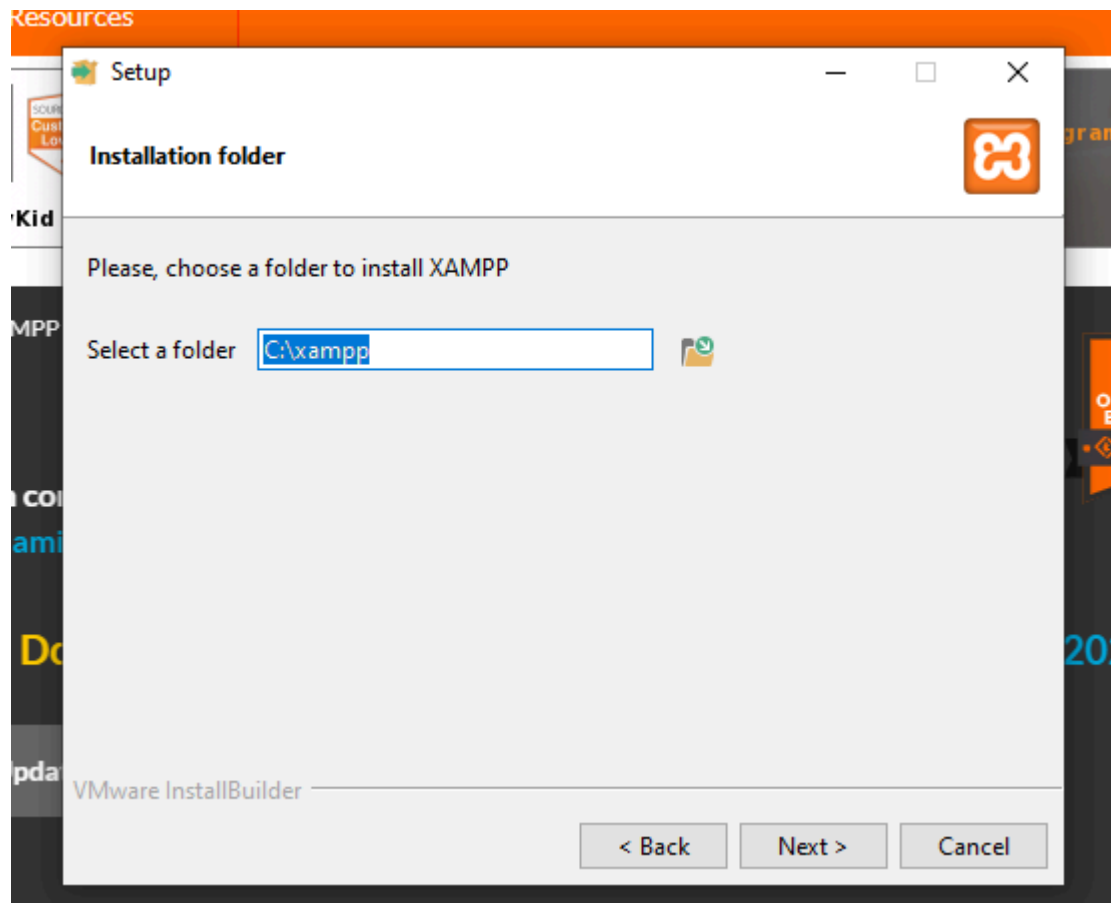
1) Select your OS. It will automatically start downloading.



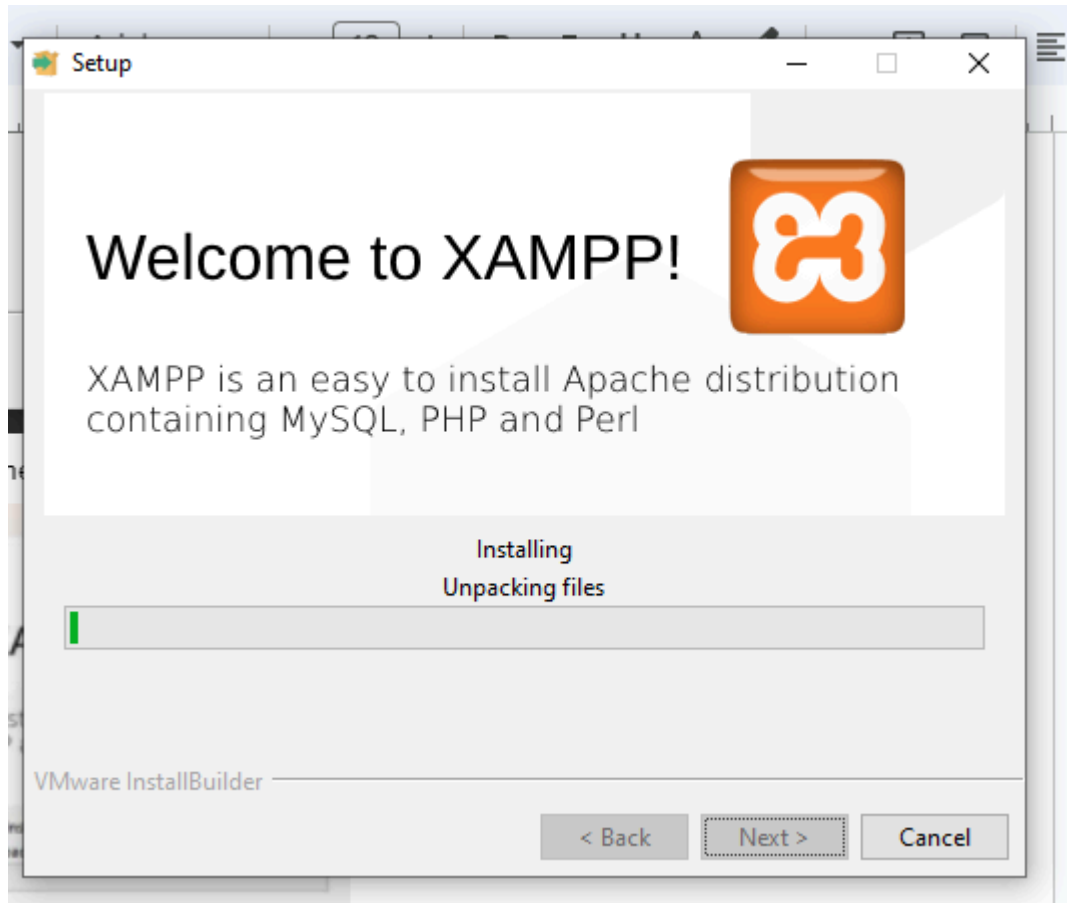
2) Open the setup file. Select all the required components and click next



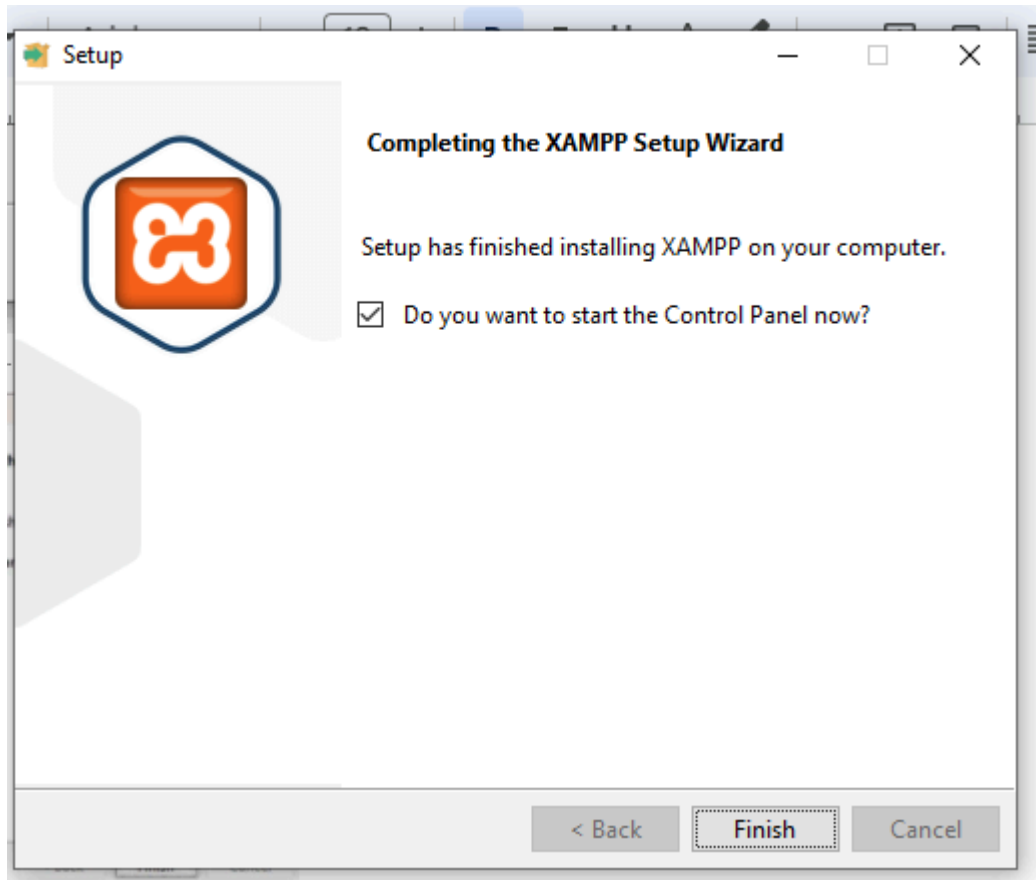
3) Choose the folder to install XAMPP in. Make sure the folder is empty. Click next



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



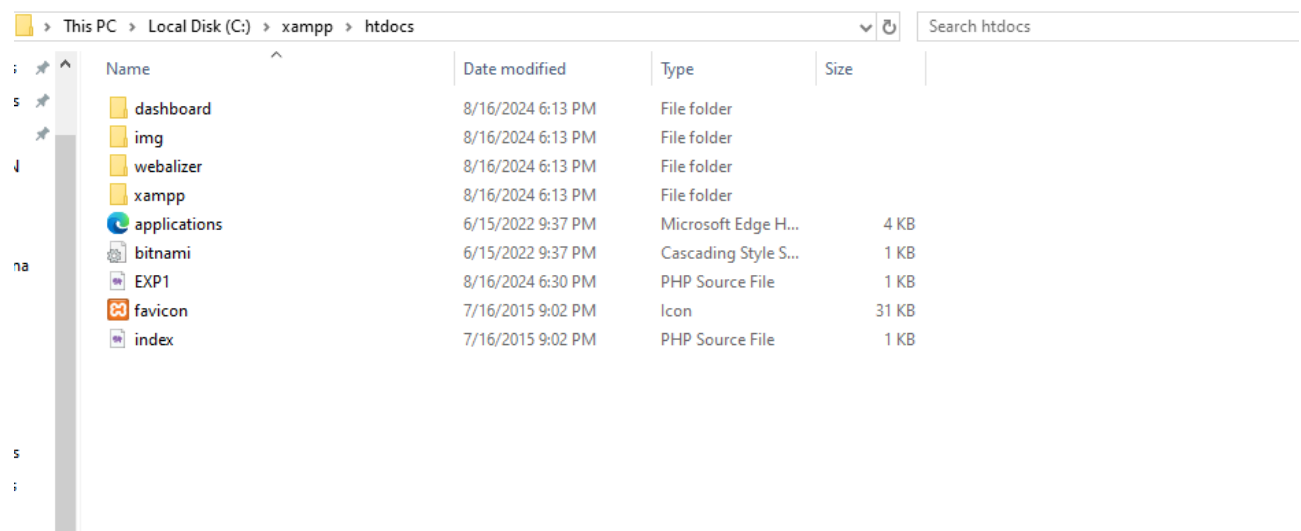
5) The installation is complete. Click Finish



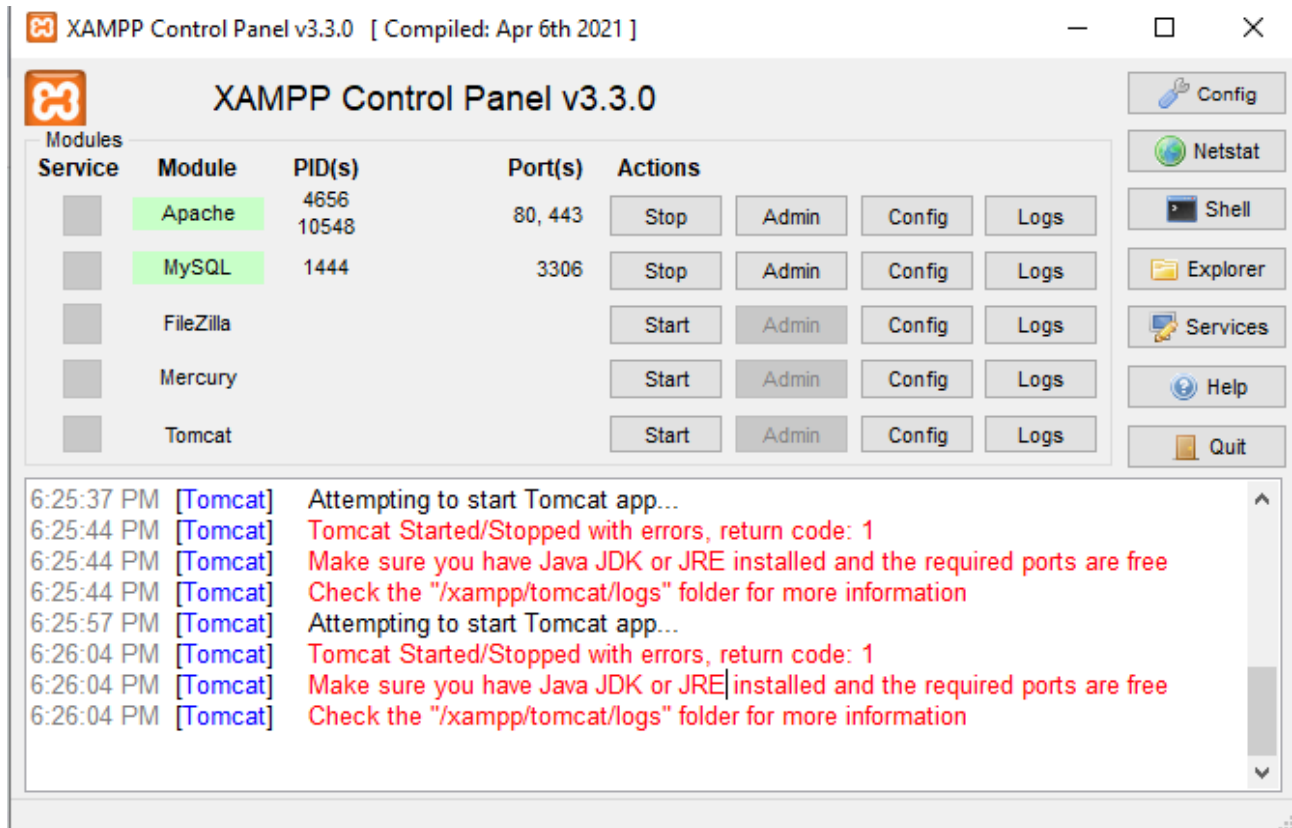
Step 2: Setup a file that is to be hosted on the server. Make sure the file has extension **.php**

 **EXP1** 8/16/2024 6:21 PM 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)

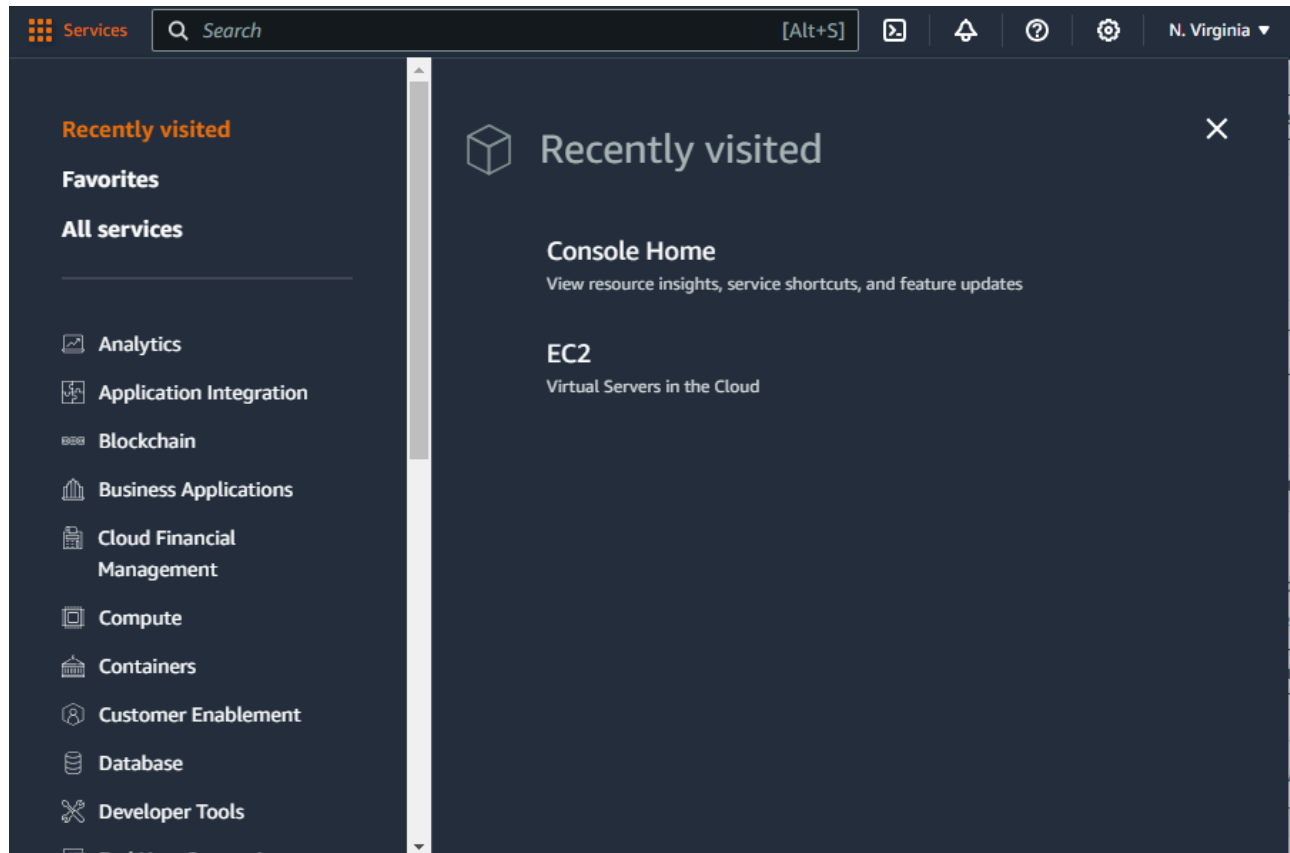


Step 5: Open your web browser. Type localhost/YOUR_FILENAME.php. This will open your website on your browser.

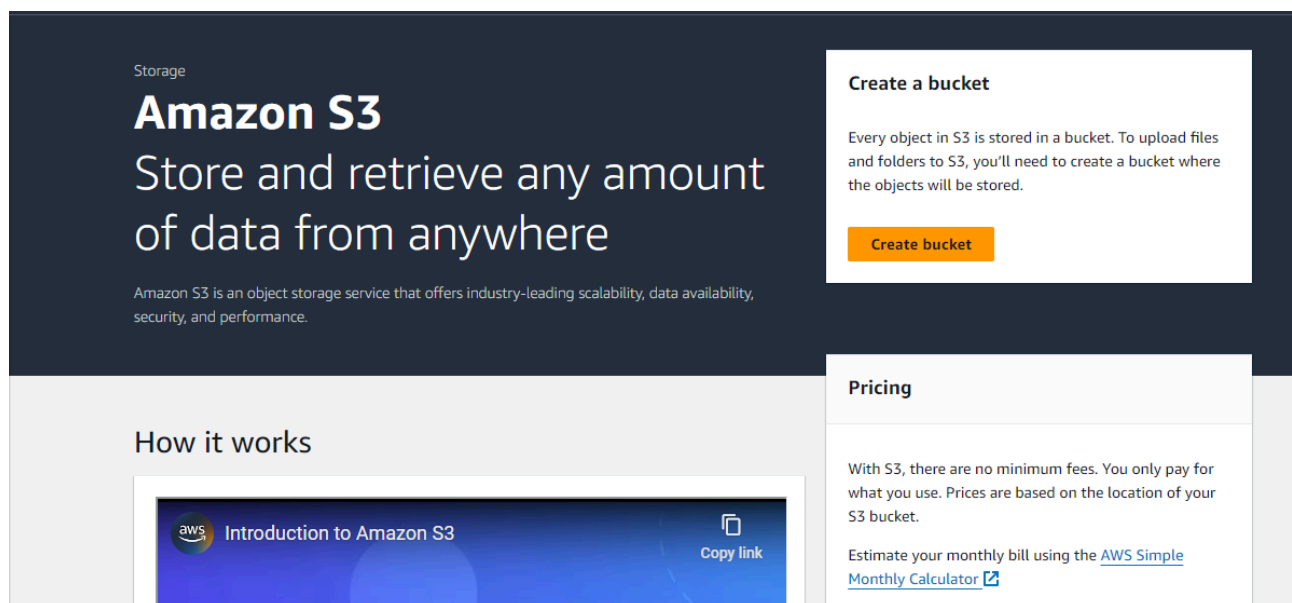


2) AWS S3

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

Create bucket [Info](#)

Buckets are containers for data stored in S3.

General configuration

AWS Region

US East (N. Virginia) us-east-1

Bucket type [Info](#)

☒ General purpose

Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

☐ Directory - New

Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

Bucket name [Info](#)

ishansbucket

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](#)

Step 4: Click on the name of your bucket and goto Properties

✔ Successfully created bucket "ishansbucket"

To upload files and folders, or to configure additional bucket settings, choose [View details](#).

[View details](#)

[Amazon S3](#) > Buckets

▶ **Account snapshot - updated every 24 hours** [All AWS Regions](#)

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

[View Storage Lens dashboard](#)

[General purpose buckets](#)

[Directory buckets](#)

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

Buckets are containers for data stored in S3.

< 1 > ⚙

Name ▲	AWS Region ▼	IAM Access Analyzer	Creation date ▼
<input type="radio"/> ishansbucket	US East (N. Virginia) us-east-1	View analyzer for us-east-1	August 16, 2024, 19:00:16 (UTC+05:30)

Step 5: Scroll down till you find Static website hosting, click on edit

Store objects using a write-once-read-many (WORM) model to help you prevent objects from being deleted or overwritten for a fixed amount of time or indefinitely. Object Lock works only in versioned buckets. Learn more		
Object Lock		
Disabled		
Requester pays		Edit
When enabled, the requester pays for requests and data transfer costs, and anonymous access to this bucket is disabled. Learn more		
Requester pays		
Disabled		
Static website hosting		Edit
Use this bucket to host a website or redirect requests. Learn more		
Static website hosting		
Disabled		

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.

[Amazon S3](#) > [Buckets](#) > [ishansbucket](#) > Edit static website 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

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.

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

[ishansbucket](#) [Info](#)

[Objects](#) | [Properties](#) | [Permissions](#) | [Metrics](#) | [Management](#) | [Access Points](#)

Objects (0) [Info](#)

Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

< 1 >

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
No objects					
You don't have any objects in this bucket.					
Upload					

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

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

Files and folders (1 Total, 44.2 KB)
All files and folders in this table will be uploaded.

Remove
Add files
Add folder

< 1 >

<input type="checkbox"/>	Name	Folder	Type
<input type="checkbox"/>	ishan.D.dwg	-	-

Destination [Info](#)

Destination
[s3://ishansbucket](#)

► **Destination details**
 Bucket settings that impact new objects stored in the specified destination.

Step 9: This will take you to the Objects screen. Switch to Properties, scroll down to Static web 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](#)

E

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://ishansbucket.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 the public users. To change this, go to Permissions tab, go to Block public access and click on edit

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: DM25X6E297MM1SXZ
- HostId: 4fGfAMLunY2ZQ8i9NcuIEDV8CDsLvqSbUj5+gtTqRIGOB5x2rj3/2w4/0mp3CvqJ+IXAPOvq+/4=

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

changes

Edit Block public access (bucket settings) [Info](#)

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.

Step 12: Scroll down to bucket policy and click edit


Edit bucket policy [Info](#)

Bucket policy

[Policy examples](#)[Policy generator](#)

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::ishansbucket

Policy

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 textarea. Replace YOUR-BUCKET-NAME-HERE with the name you have given to your bucket. Save the changes.

```

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

```

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

Ishan Hemwani



Date of Birth: November 26, 2004