

Aim: To develop a website and host it on

- a) Your Local Machine/VM
- b) Amazon S3
- c) Netlify

A) Static Hosting on Local Machine Using XAMPP:

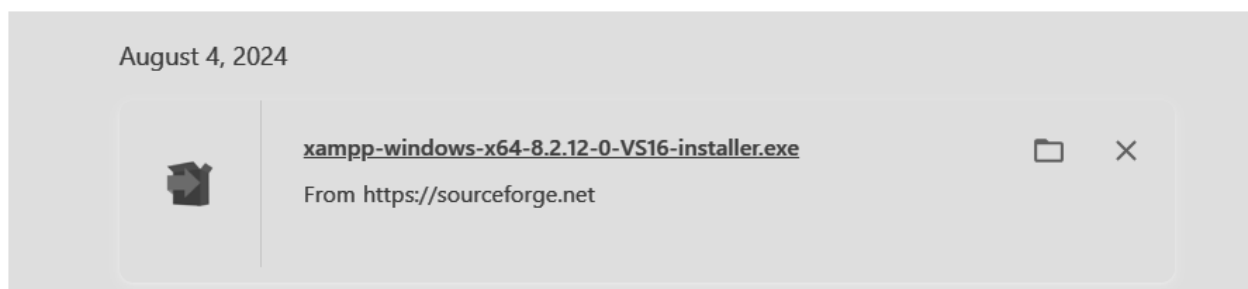
XAMPP :

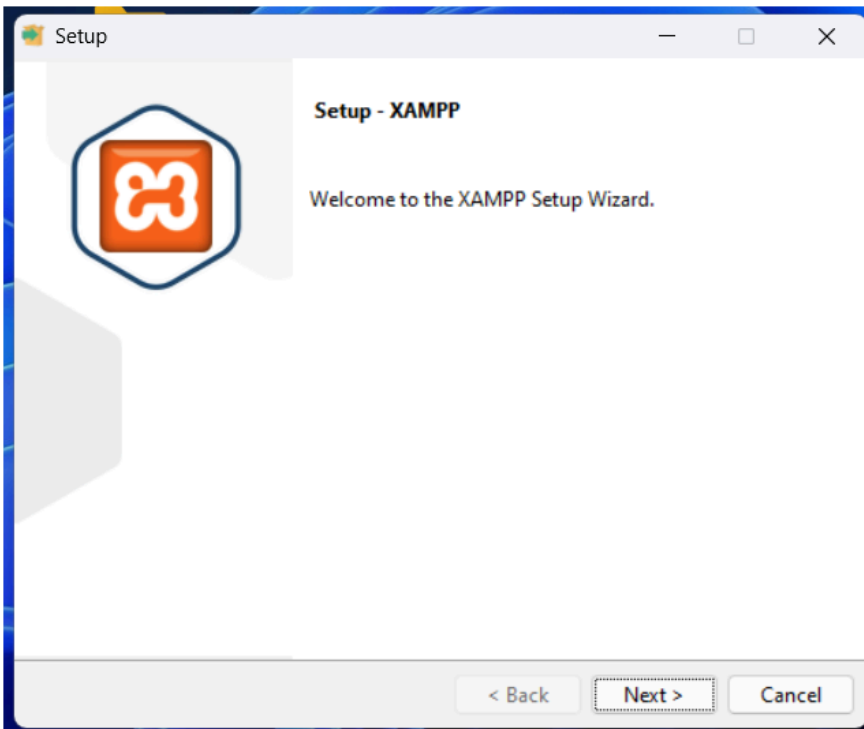
XAMPP is an open-source web server solution stack that provides a local server environment to run and test PHP, MySQL, and Perl-based web applications. It includes Apache, MySQL (MariaDB), PHP, and Perl, packaged together for easy installation. XAMPP is widely used for web development and testing before deploying websites live.

Step 1: Go to the XAMPP Website and Download it according to your Operating System. Here We have downloaded it for Windows.

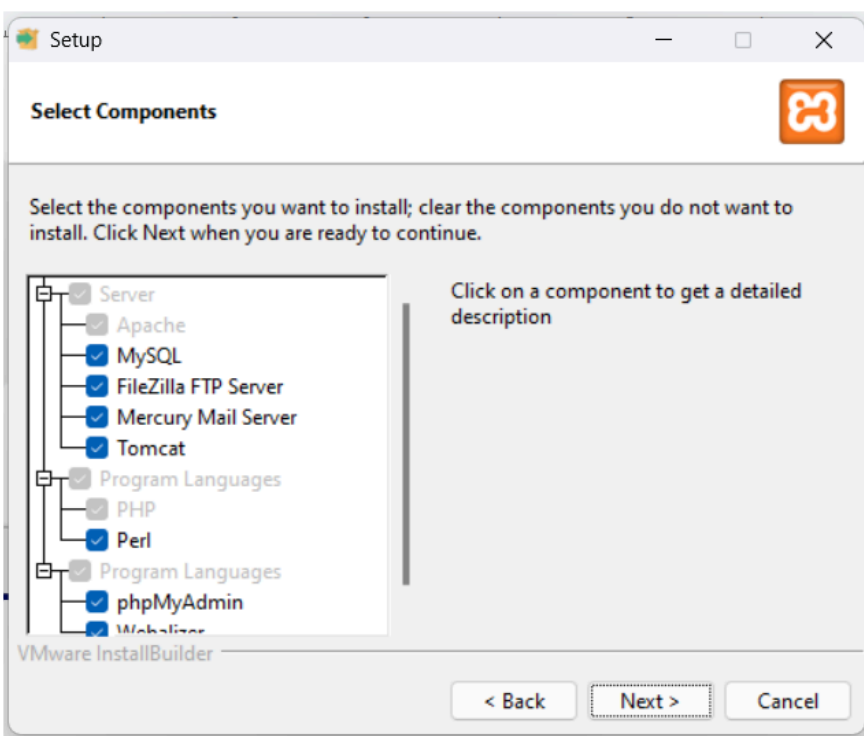


Step 2: Run .exe file.

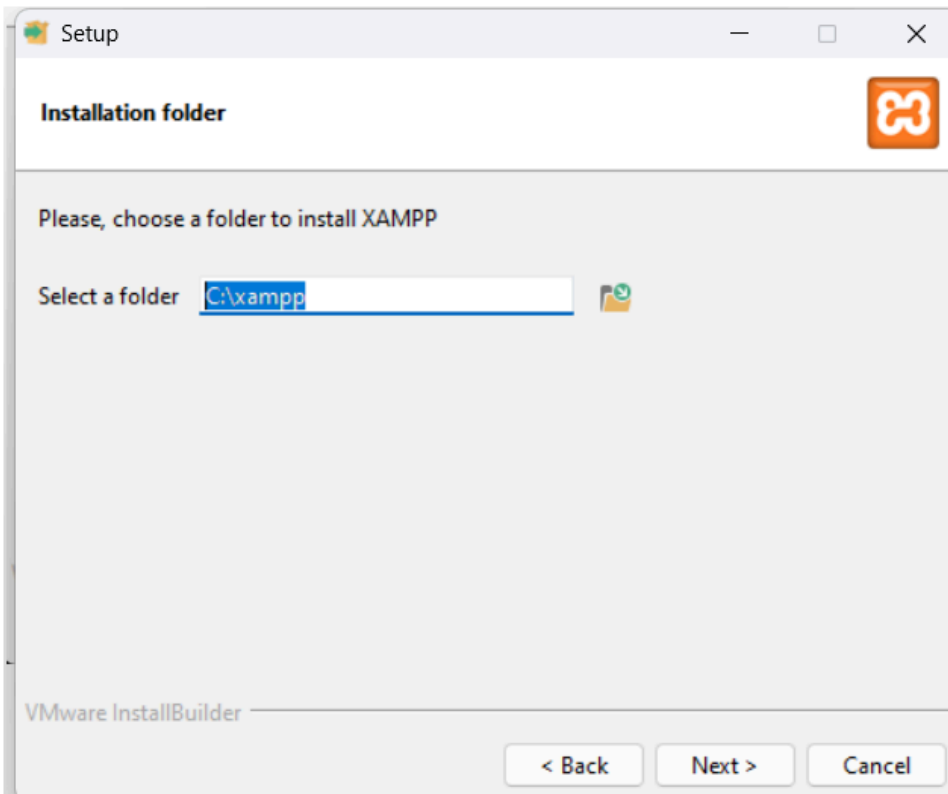




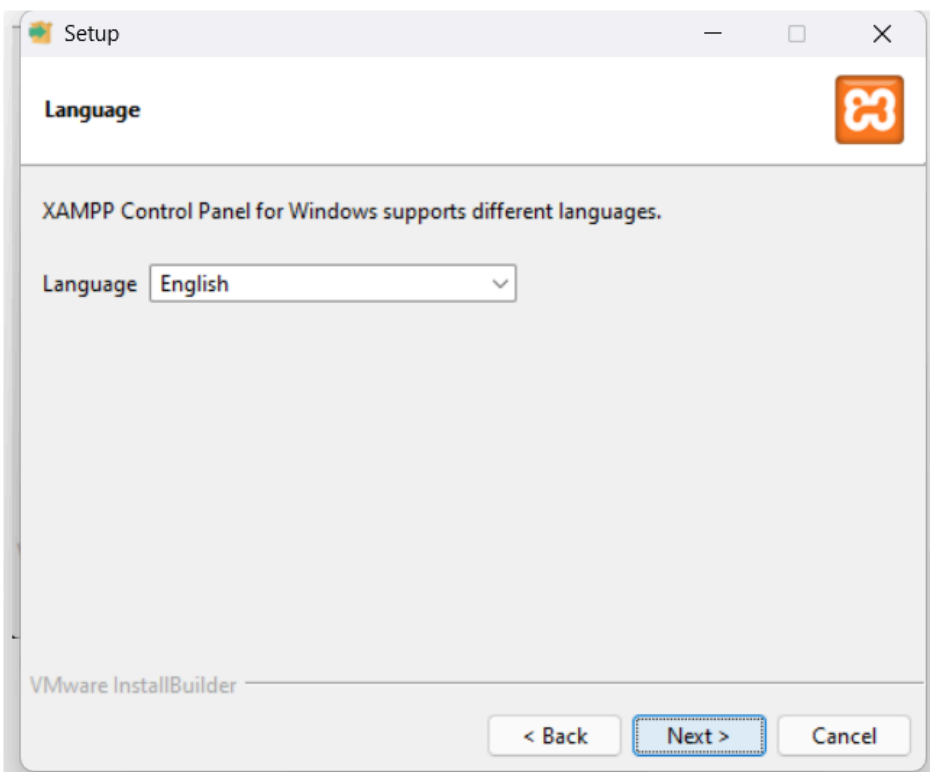
Step 3: Select Components as per your need. Here we have selected all the components.

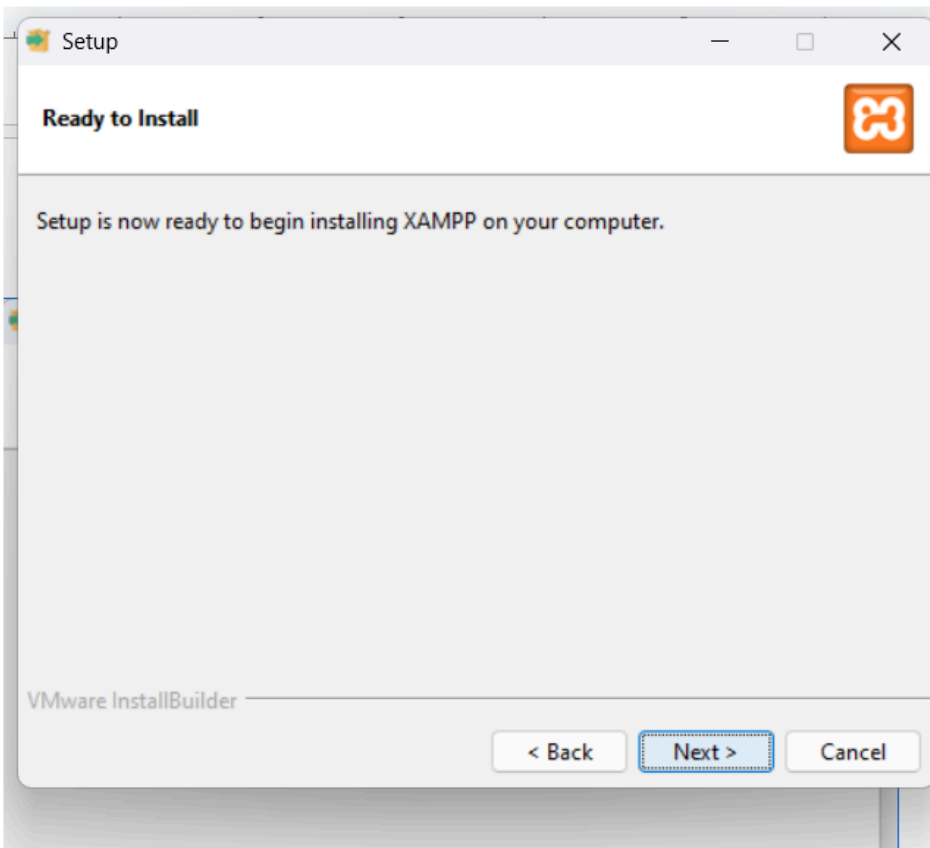


Step 4: Set path to C:\xampp

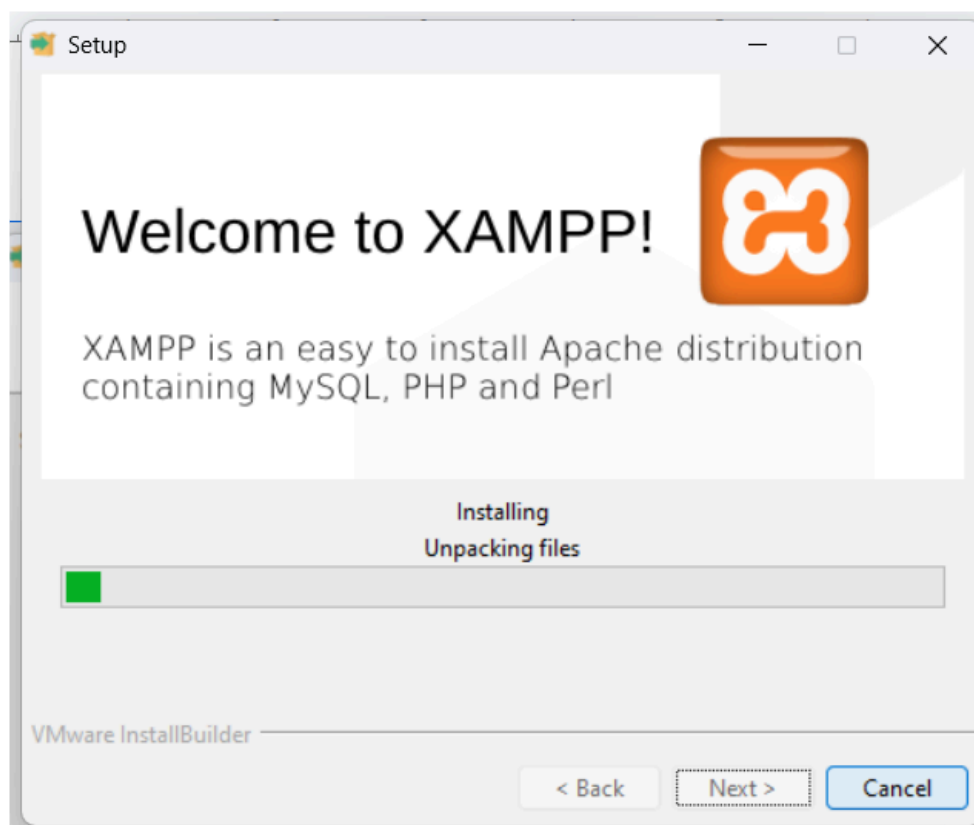


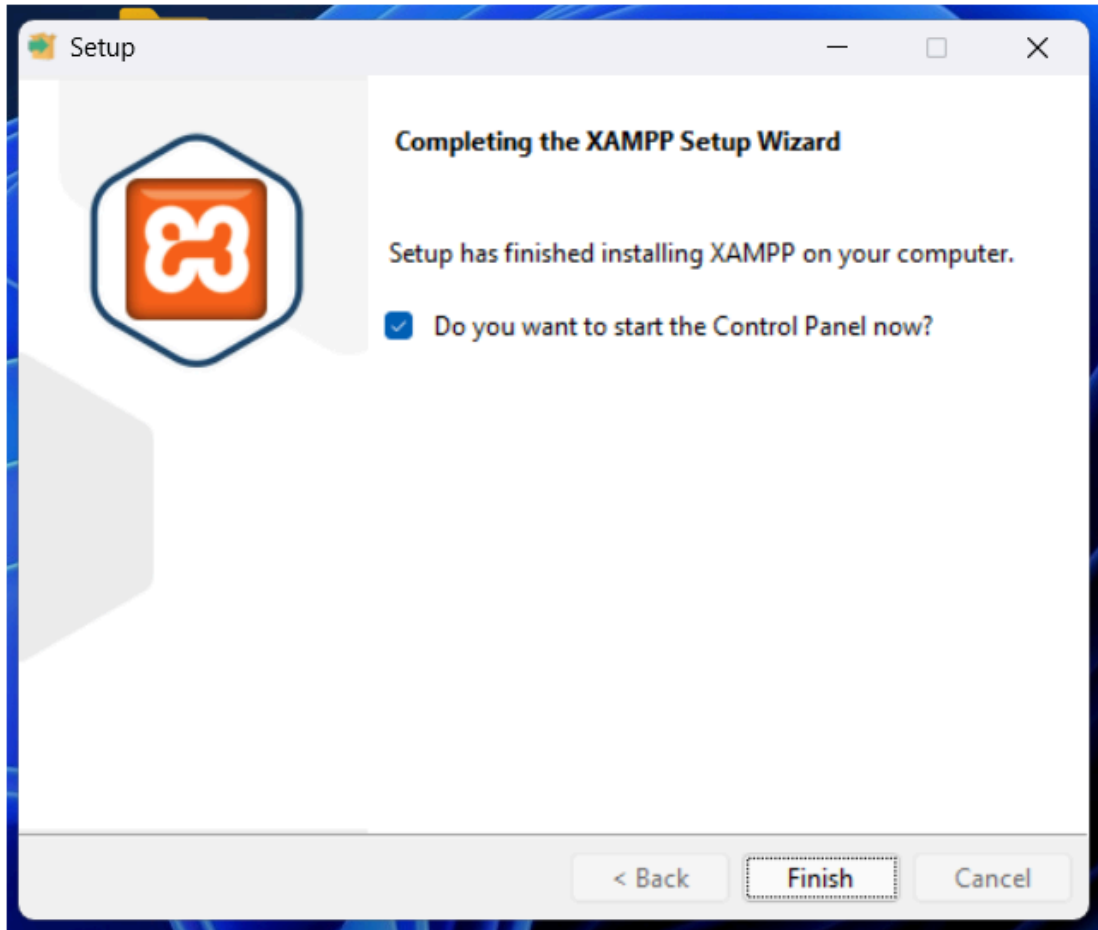
Step 5: Select language and Setup is ready to install click next.



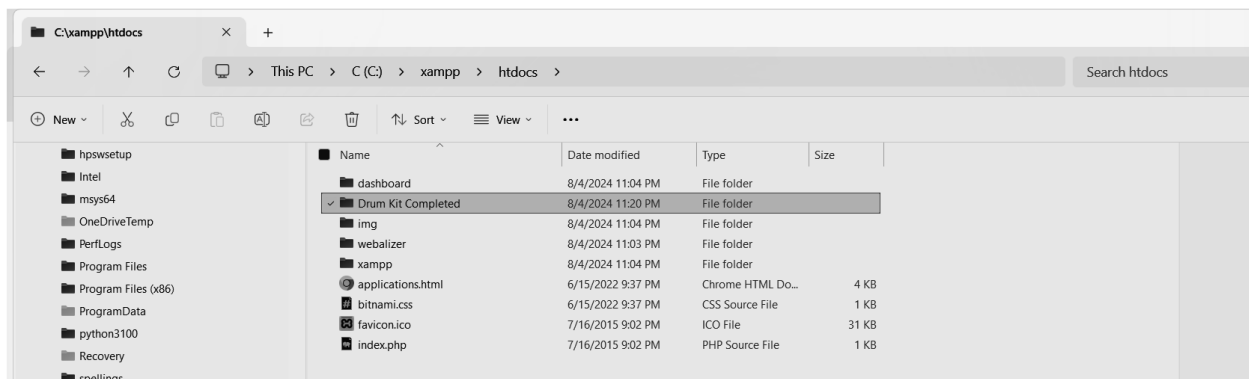


Step 6: Wait till completion of Installation then click on finish and Launch the XAMPP Control Panel.

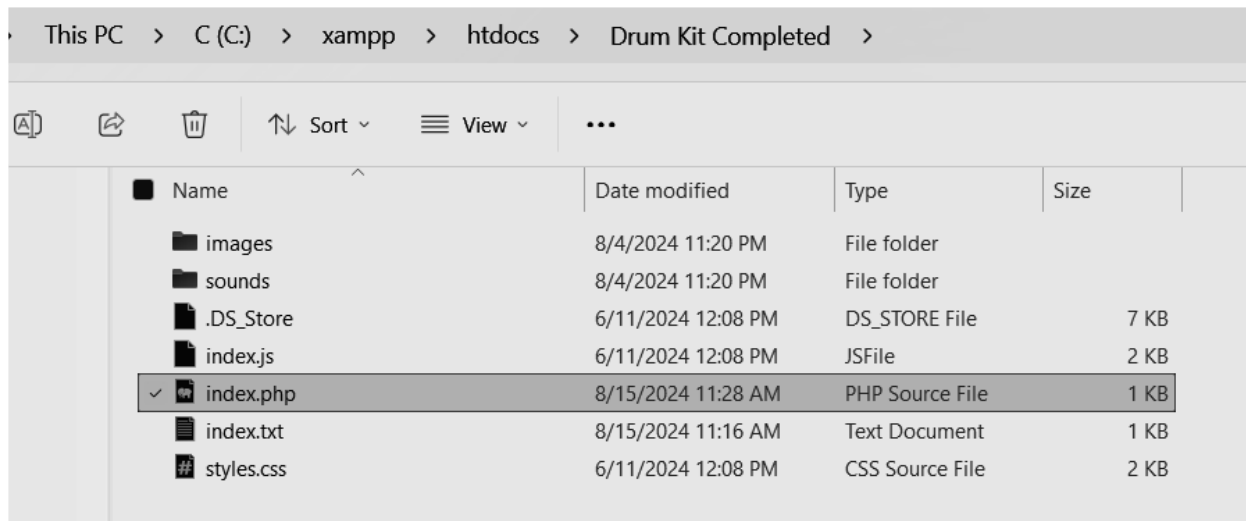




Step 7: Add your files in htdocs which present in location: **C:\xampp\htdocs**



Step 8: If you have index.html change it into index.php and if you have to add some php feature then you can also add it in index.php file by adding php tag.



```
<!DOCTYPE html>
<html lang="en" dir="ltr">

<head>
  <meta charset="utf-8">
  <title>Drum Kit</title>
  <link rel="stylesheet" href="styles.css">
  <link href="https://fonts.googleapis.com/css?family=Arvo" rel="stylesheet">
</head>

<body>
  <h1 id="title">Drum 🥁 Kit</h1>
  <div class="set">
    <button class="w drum">w</button>
    <button class="a drum">a</button>
    <button class="s drum">s</button>
    <button class="d drum">d</button>
    <button class="j drum">j</button>
    <button class="k drum">k</button>
    <button class="l drum">l</button>
  </div>

  <script src="index.js" charset="utf-8"></script>

  <footer>
    Made with ❤️ in India.
  </footer>
</body>
</html>

<?php
// Sample PHP code
$title = "This Line is Coming from Echo in PHP part.";
echo "<h2 style='color:white' id='title'>$title</h2>";
?>
```

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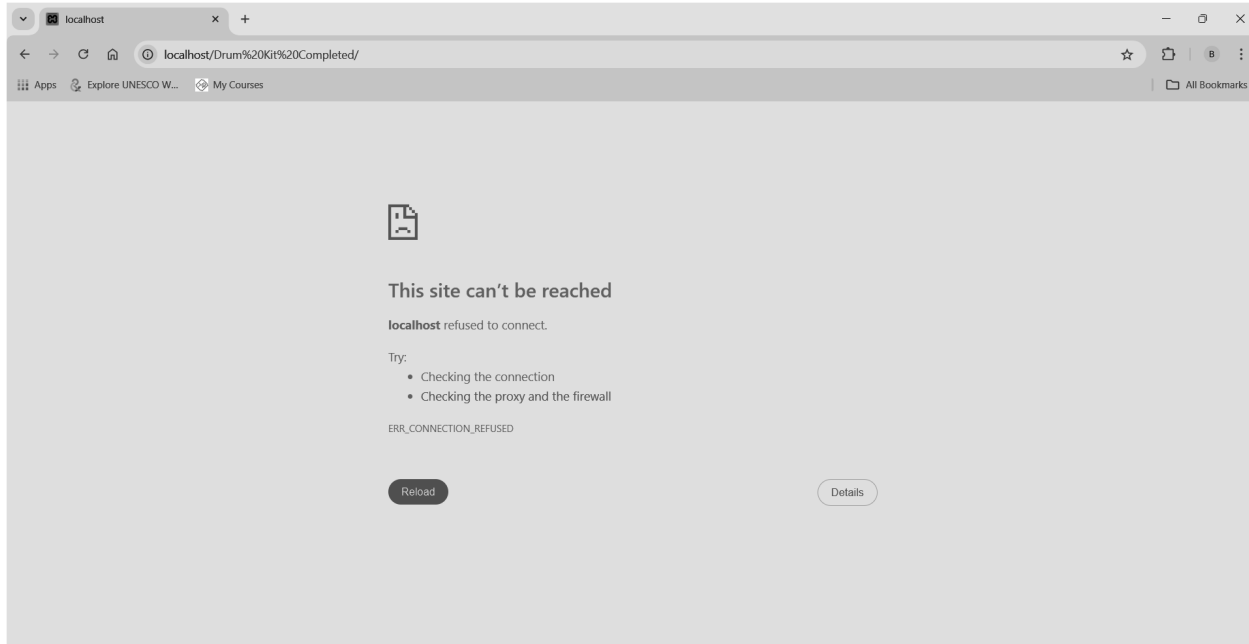
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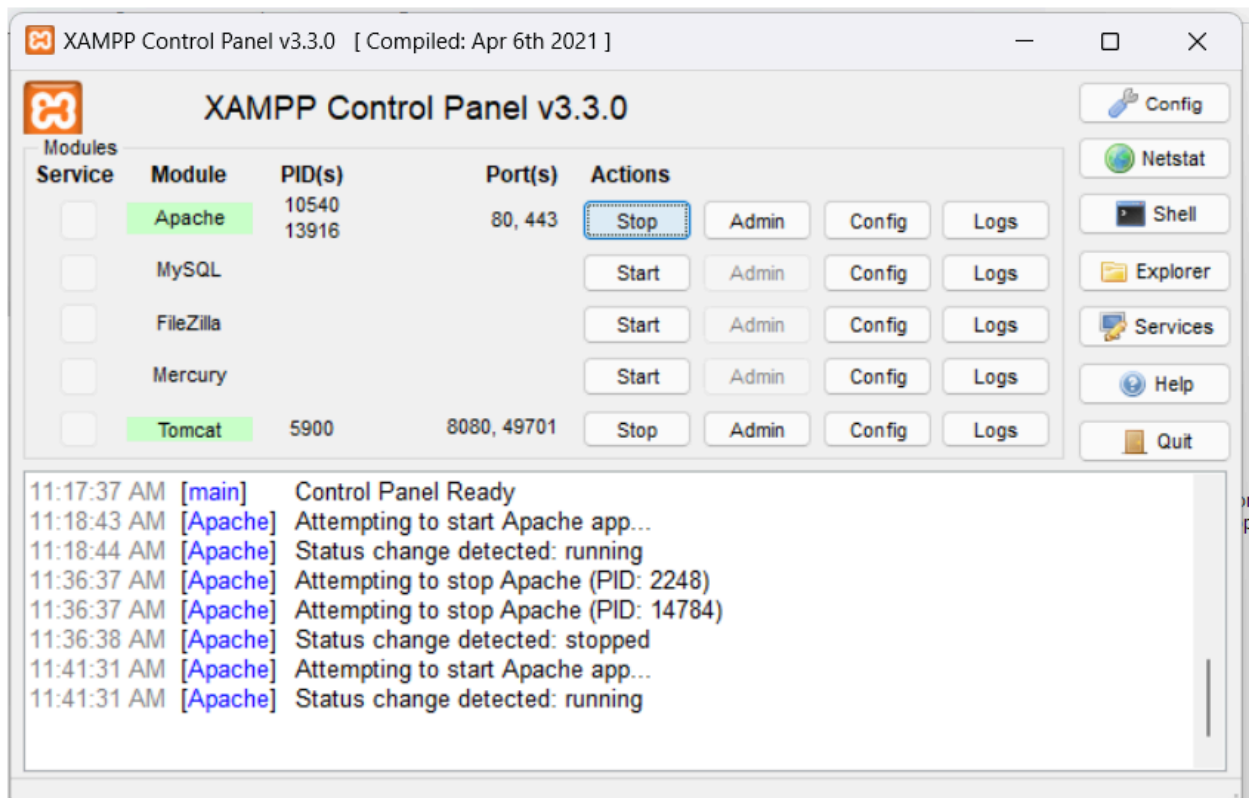
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Step 9: Start the Server and type “http://localhost/Drum Kit Completed/” in the browser or localhost/your filename

Before Starting Server



Start the Server



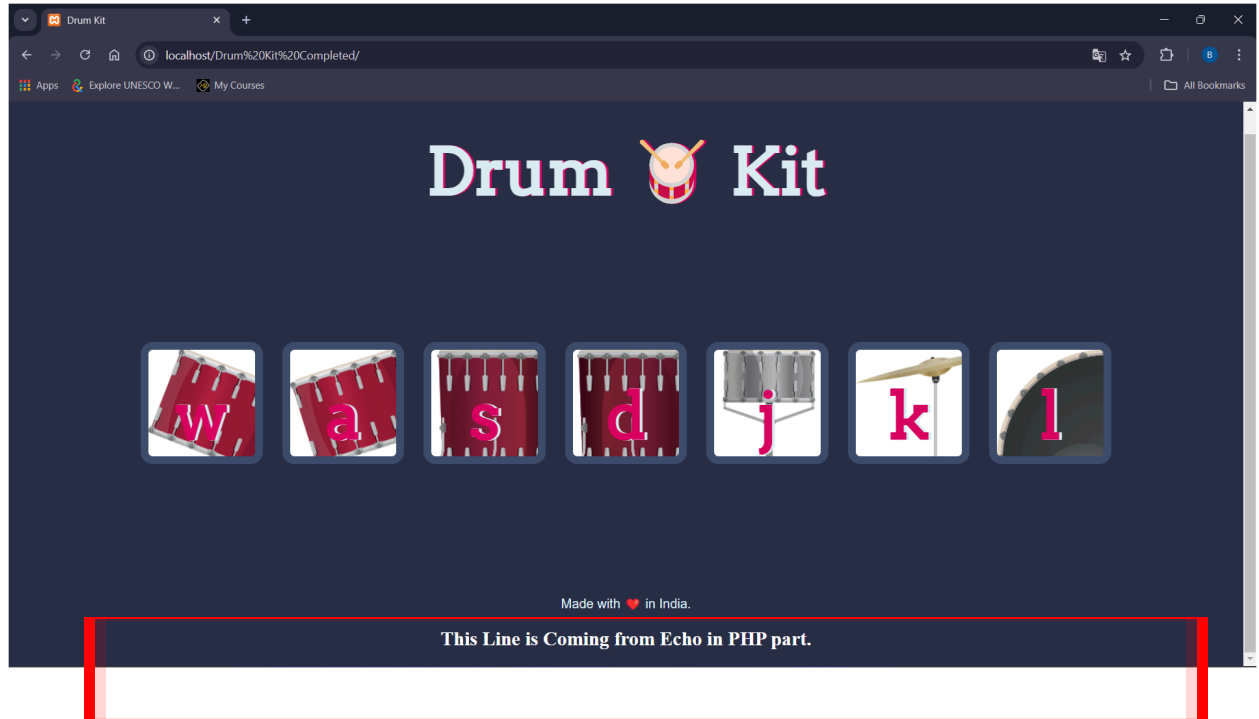
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Division: D15C

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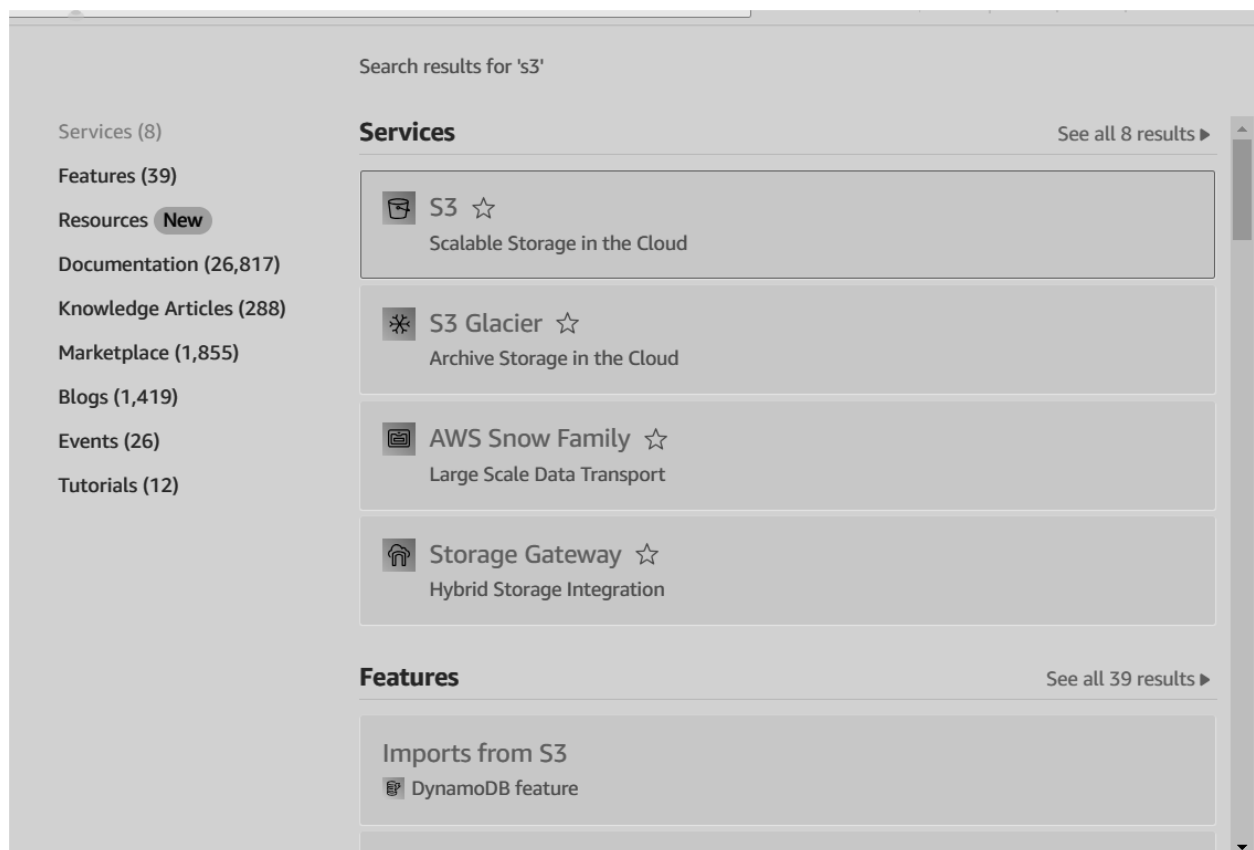
After Starting the server refresh it we can see html and at the end php part



B) Stating hosting Using Amazon S3 Bucket

Amazon S3: Amazon S3 (Simple Storage Service) is a scalable cloud storage service provided by AWS, designed for storing and retrieving any amount of data at any time. It offers high availability, durability, and security, making it ideal for a wide range of use cases such as backup, archiving, and big data analytics. S3 also supports a pay-as-you-go pricing model, allowing businesses to optimize costs.

Step 1: Open Your AWS academy account or Personal AWS account. Here we have used AWS academy account. Then **Search for S3 in Services and click on it.**



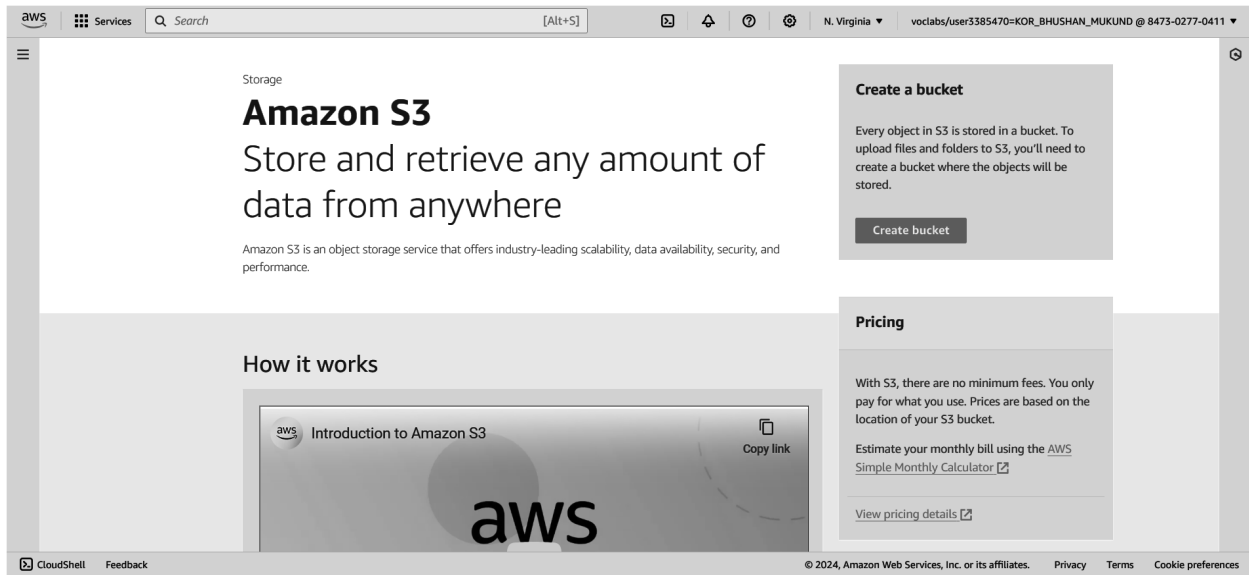
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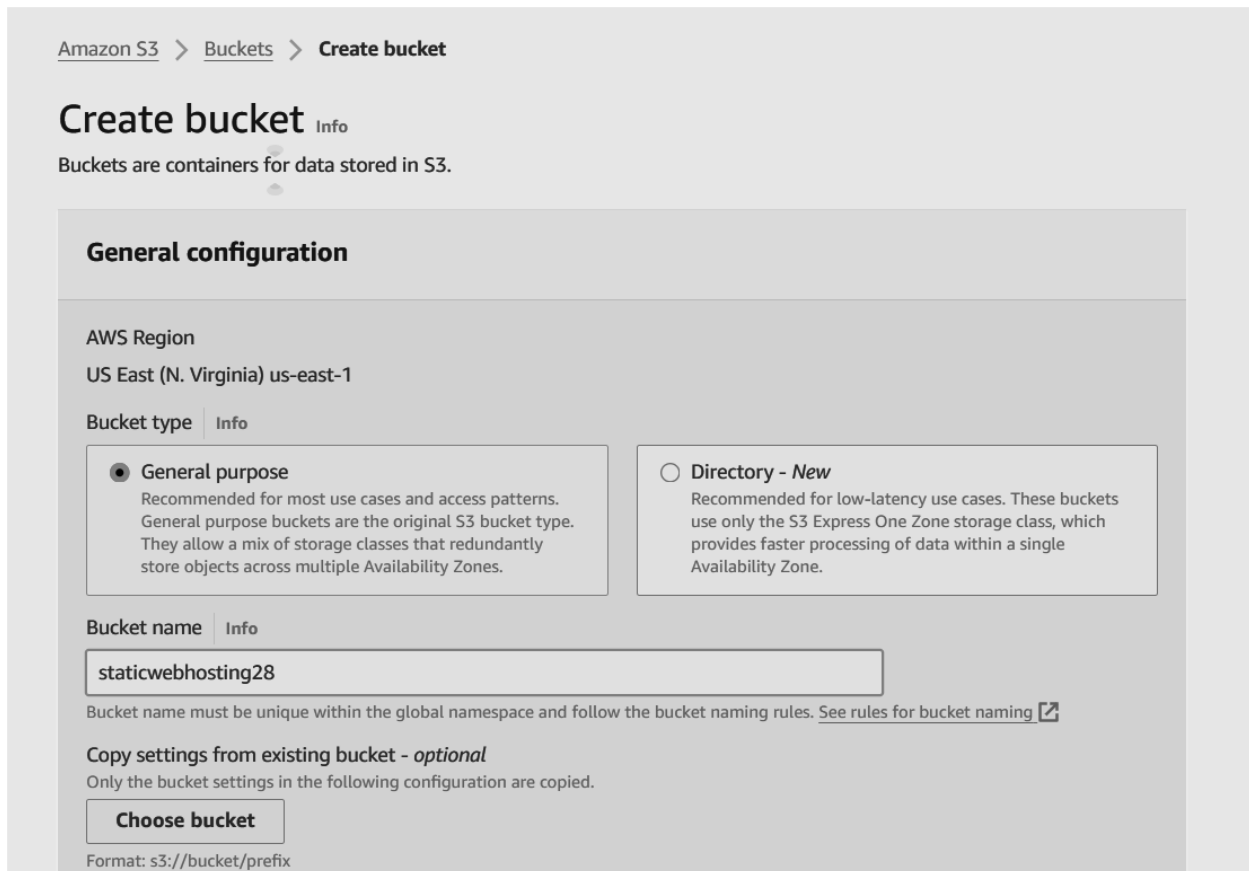
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Step 2: Click on Create Bucket Button.



Step 3: Select **Bucket type: General Purpose** then give Bucket name.



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Step 4: Keep all the other things By Default Refer to screenshots. And Click on Create Bucket.

Object Ownership Info

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

☒ **ACLs disabled (recommended)**
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

☐ **ACLs enabled**
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

Object Ownership
Bucket owner enforced

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.

udShell Feedback

☒ **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.

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

Bucket Versioning
☒ Disable
☐ Enable

Tags - optional (0)

You can use bucket tags to track storage costs and organize buckets. [Learn more](#)

udShell Feedback

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

Step 5:Bucket is created Successfully.

aws

Services

Search

[Alt+S]

N. Virginia

voclabs/user3385470=KOR_BHUSHAN_MUKUND @ 8473-0277-0411

Amazon S3

Buckets

► Account snapshot - updated every 24 hours

All AWS Regions

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.

Find buckets by name

Name

AWS Region

IAM Access Analyzer

Creation date

☐ staticwebhosting28

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

[View analyzer for us-east-1](#)

August 4, 2024, 23:33:54 (UTC+05:30)

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Amazon S3 > Buckets > staticwebhosting28

staticwebhosting28 Info

Objects | Properties | Permissions | Metrics | Management | Access Points

Bucket overview

AWS Region US East (N. Virginia) us-east-1	Amazon Resource Name (ARN)  arn:aws:s3:::staticwebhosting28	Creation date August 4, 2024, 23:33:54 (UTC+05:30)
---	---	---

Bucket Versioning Edit

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

Bucket Versioning
Disabled
Multi-factor authentication (MFA) delete
An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. [Learn more](#)
Disabled

Step 6: By Default Static hosting is disabled so enable it. Also give name of index document here it is index.html

Static website hosting Edit

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

Static website hosting
Disabled

Amazon S3 > Buckets > staticwebhosting28 > 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](#)

 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

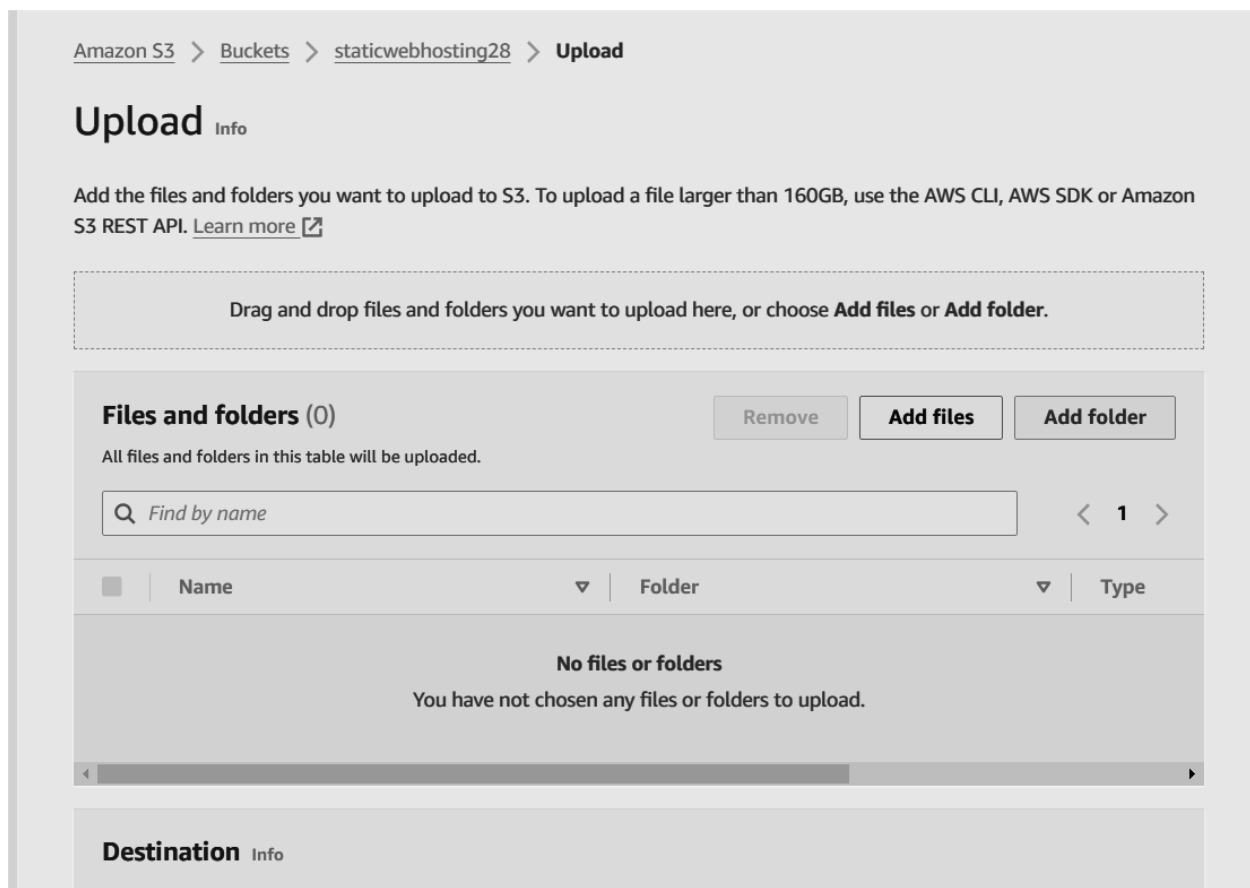
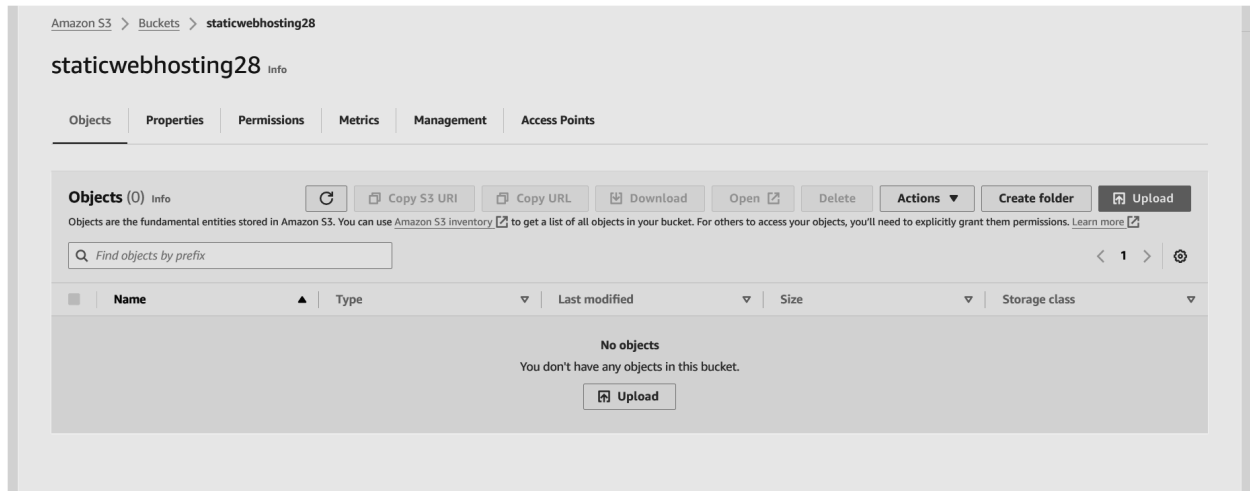
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Step 7: Click on the Bucket name and then Upload your files in Bucket by clicking on the upload button refer screenshots.



[Amazon S3](#) > [Buckets](#) > [staticwebhosting28](#) > **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 (18 Total, 374.7 KB)

Remove

Add files

Add folder

All files and folders in this table will be uploaded.

Find by name

< 1 2 >

<input type="checkbox"/>	Name	Folder	Type
<input type="checkbox"/>	.DS_Store	Drum Kit Completed/	-
<input type="checkbox"/>	index.html	Drum Kit Completed/	text/html
<input type="checkbox"/>	index.js	Drum Kit Completed/	text/javascript
<input type="checkbox"/>	styles.css	Drum Kit Completed/	text/css
<input type="checkbox"/>	crash.mp3	Drum Kit Completed/sounds/	audio/mpeg
<input type="checkbox"/>	kick-bass.mp3	Drum Kit Completed/sounds/	audio/mpeg

Files and folders (18 Total, 374.7 KB)

Remove

Add files

Add folder

All files and folders in this table will be uploaded.

Find by name

< 1 2 >

<input type="checkbox"/>	Name	Folder	Type
--------------------------	------	--------	------

Destination Info

Destination

s3://staticwebhosting28

► Destination details

Bucket settings that impact new objects stored in the specified destination.

► Permissions

Grant public access and access to other AWS accounts.

► Properties

Specify storage class, encryption settings, tags, and more.

Cancel

Upload

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Division: **D15C**

Roll No: **28**

Step 8: Now click on the link. Then you will get to know access is block so change the access settings.

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://staticwebhosting28.s3-website-us-east-1.amazonaws.com>

Edit

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: BG0328HP96F83TQ1
- HostId: OfGAgKa7cFKwwCAVutc37YPwLic9TNEfOWsgROBYudamAXB79gJbcBFAMbT16vPX6bO8A49wcE=

An Error Occurred While Attempting to Retrieve a Custom Error Document

- Code: AccessDenied
- Message: Access Denied

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)

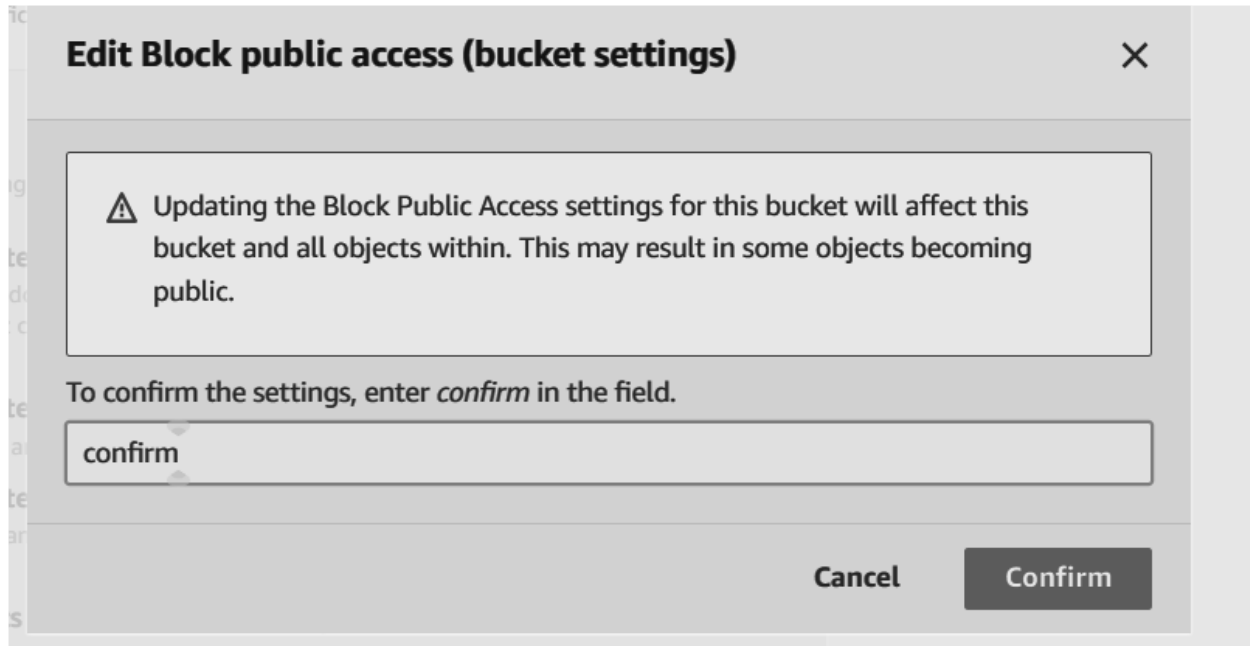
S3 will ignore all ACLs that grant public access to buckets and objects.

☐ 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.



Edit Block public access (bucket settings) ✕

⚠ Updating the Block Public Access settings for this bucket will affect this bucket and all objects within. This may result in some objects becoming public.

To confirm the settings, enter *confirm* in the field.

confirm

Cancel Confirm

Step 9: The website is still not working because there is one more step that you have to add some policies so click on edit policy. And Paste the below policy in the box and save it.

Do not forget to replace your Bucket Name.

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

Bucket policy

EditDelete

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](#)

No policy to display.

Copy

Bucket ARN

arn:aws:s3:::staticwebhosting28

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:::staticwebhosting28/*"
12 }
13]
14 }
15 }

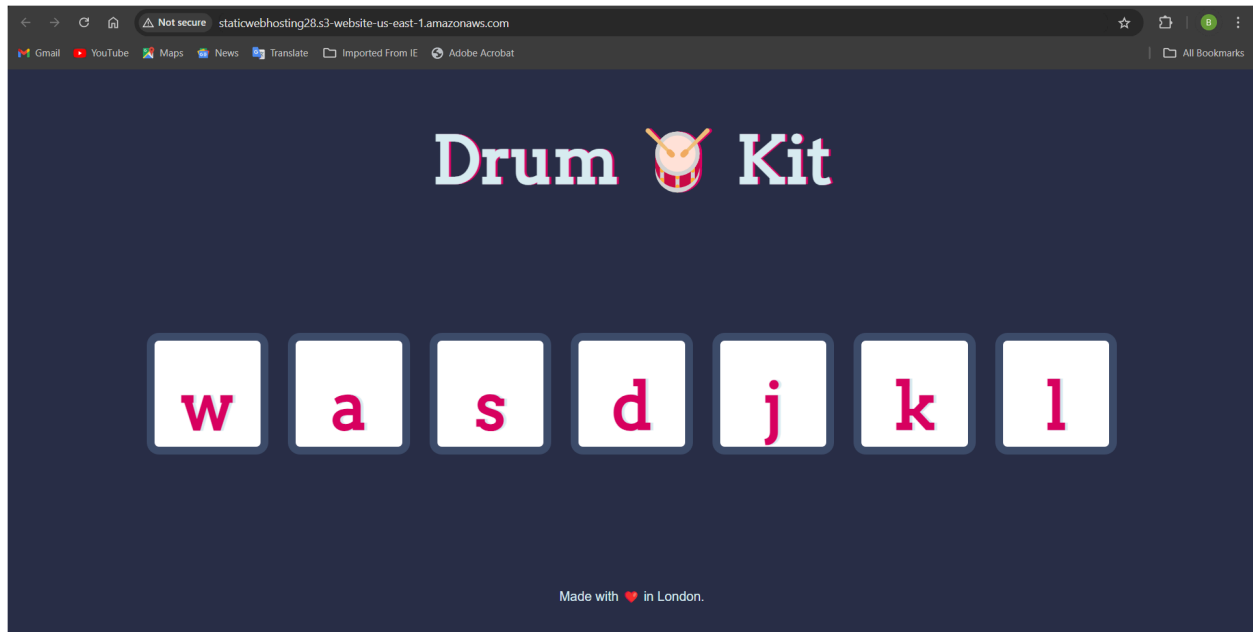
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Step 10: Done Now go to the link where you can see your website.



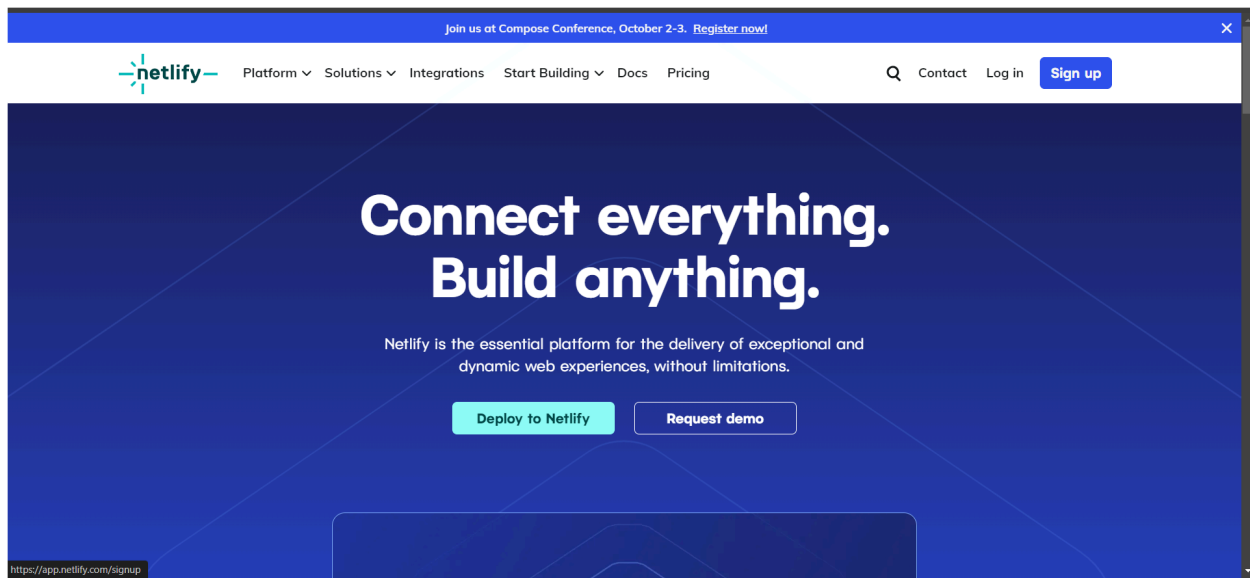
C) Static Hosting Using Netlify

Netlify


Netlify is a cloud platform that automates the deployment, management, and hosting of modern web projects. It provides developers with tools for continuous integration, automatic builds, and seamless deployment from Git repositories. Netlify supports static sites and serverless functions, making it ideal for JAMstack applications.

It is the easiest and fastest way to host a website.

Step1: Create your account or Sign up with a Google account on Netlify.



Step 2: Give Some Basic Information Regarding your web application. Add your files or connect to a GitHub account.



Nice to meet you! Let's get acquainted.


How are you planning to use Netlify?

Personal

School

Client

Work

 Required field

What kind of site do you want to build first?

Company site

Web app

eCommerce

Games

Web 3.0

Documentation

Personal site

Blog

Something else

What are you building?

Something else

What are you building?

Web 2.0

What best describes your role?

Freelancer


Hobby Developer

Other


What is the name of your team?

Name your team

Drum Kit

 People who use Netlify for personal work often use a project name or their own name.

Continue to deploy

 By submitting this form, you agree to Netlify's [Privacy Policy](#) and that Netlify can send you occasional emails about new features and services.

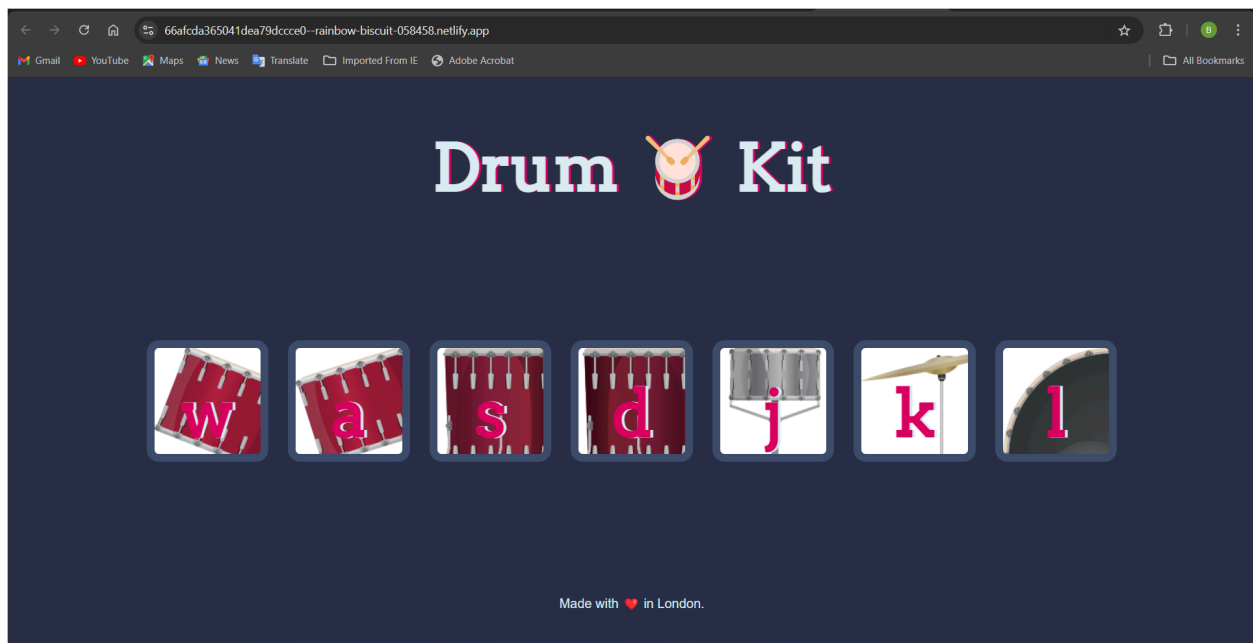
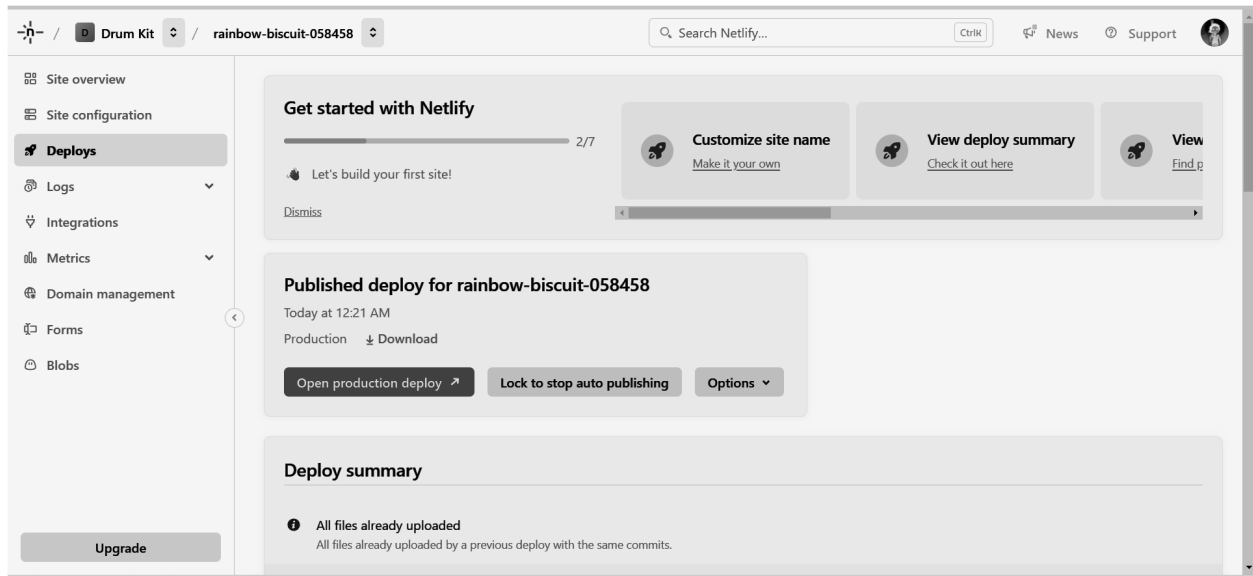
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Step 3: Click on the link where you can access your web application and you can also share this link with your friends.



Step 4: Done. This is the Public link.

Link: <https://66afcd365041dea79dccc0--rainbow-biscuit-058458.netlify.app/>