



# Host a Website on Amazon S3



Shikha Gupta



**Shikha Gupta**  
NextWork Student

[NextWork.org](https://www.nextwork.org)

# Introducing Today's Project!

## Today's project is...

I used Amazon S3 (Simple Storage Service) for hosting static website content. Specifically, I: Created an S3 Bucket: Set up an S3 bucket to store the website files (HTML, CSS, JavaScript, images, etc.). Enabled Static Website Hosting: Configured the

## Static website hosting means...

Static website hosting means serving static content, such as HTML, CSS, JavaScript, and images, directly to users without server-side processing or dynamic content generation. This type of hosting delivers pre-built files to users, making it fast and

## In AWS, I enabled static website hosting by...

I have used public read access option under ACL

## One thing I didn't expect...

One thing I didn't expect in this project was the need to manually set a bucket policy to allow public access. I initially assumed enabling static website hosting

would automatically configure the necessary permissions

## This project took me...



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## Create an S3 Bucket

### Creating an S3 Bucket took me...

It took 2 mins to create S3 bucket.

### My Region configurations

I have created my bucket in US East (N. Virginia) us-east-1

### My Access Control List configurations

Grant basic read/write permissions to other AWS accounts. I have given read and write ACL permission.

### S3 bucket naming is important!

S3 bucket names must be globally unique to prevent URL conflicts, ensure proper DNS routing, avoid namespace clashes, and maintain clear ownership and security of the buckets.



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The screenshot shows the AWS S3 console interface. A green success message at the top states: "Successfully created bucket 'nextwork-website-project-yourname'. To upload files and folders, or to configure additional bucket settings, choose View details." Below this, the "Account snapshot" section displays an "updated every 24 hours" status. The main table lists one "General purpose buckets" entry:

Name	AWS Region	IAM Access Analyzer	Creation date
<a href="#">nextwork-website-project-yourname</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	July 13, 2024, 13:07:55 (UTC+05:30)



**Shikha Gupta**  
NextWork Student

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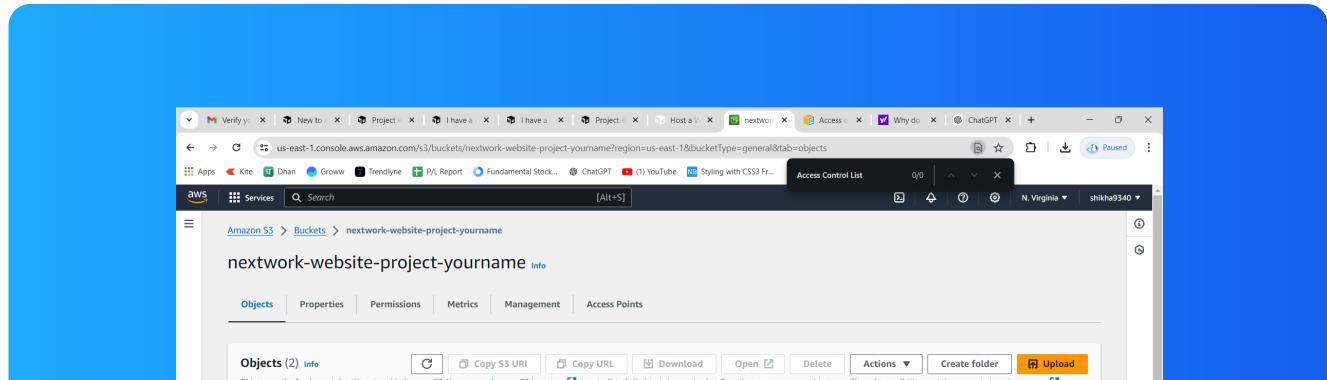
# Upload Website Files to S3

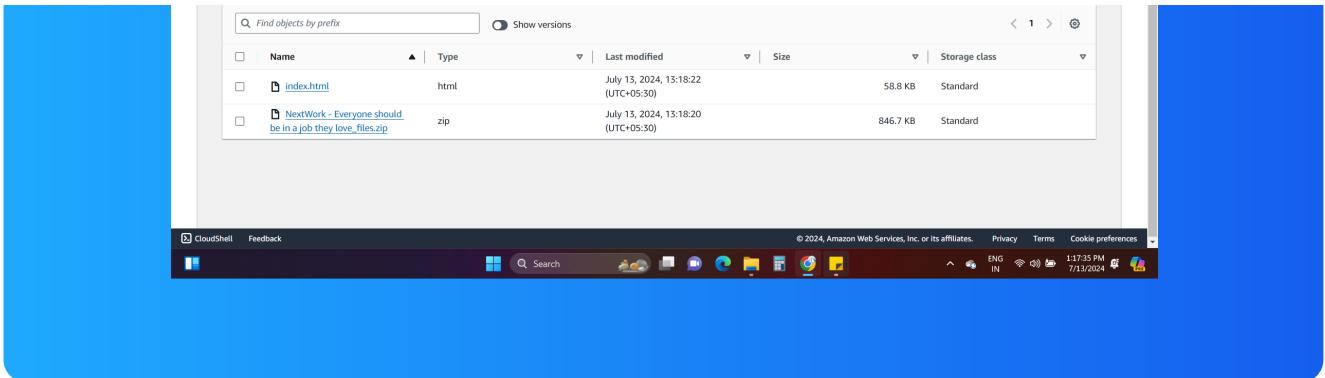
**Next, I uploaded the following files...**

One is html file and other is image folder

## How these files work...

Both are needed to ensure the application runs correctly with the specified configurations.





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NextWork Student

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# Static Website Hosting on S3

## Static website hosting means...

"Website hosting" means providing storage space and access for websites on servers, allowing them to be accessed on the internet.

## How I enabled hosting...

I have gone on properties tab under that there is one option static website hosting and enabled it.



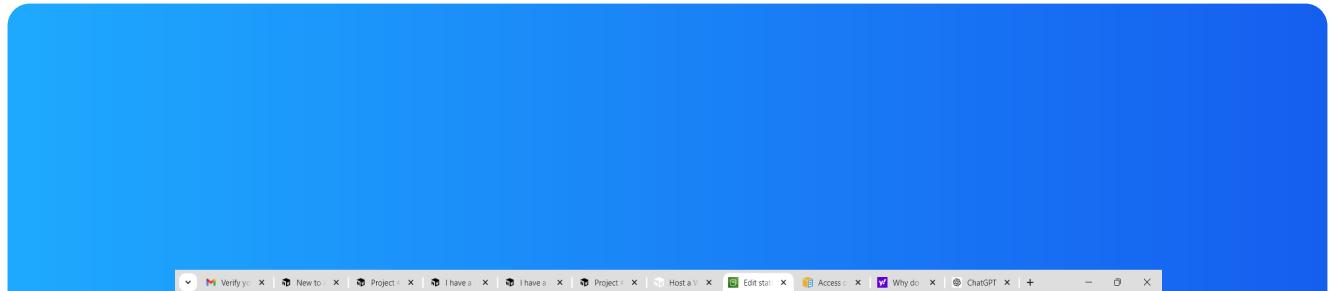
**Shikha Gupta**  
NextWork Student

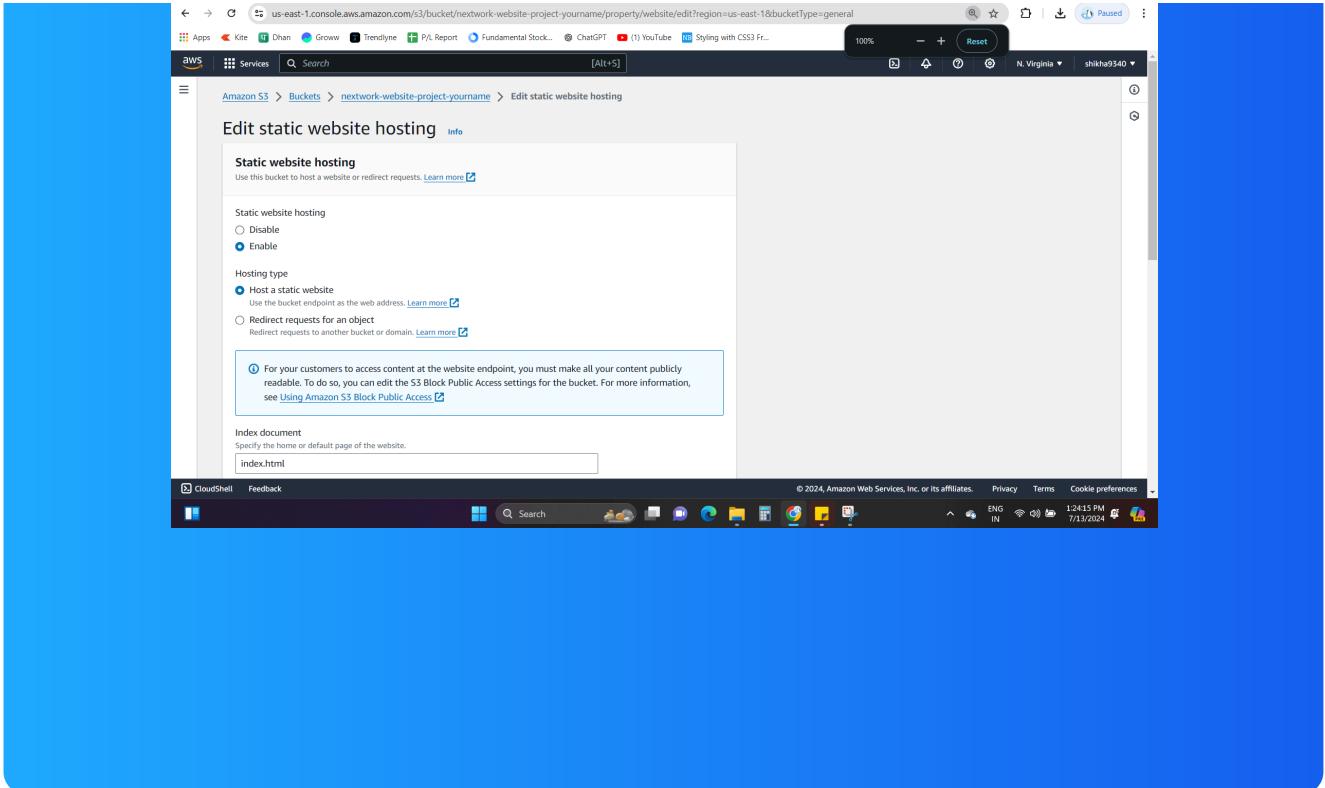
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# Bucket Endpoints

## Bucket Endpoint URLs

Once static website hosting is enabled, the S3 bucket endpoint URL allows users to access the static website content stored in the bucket via a web browser. This URL serves as the address where the website is publicly available.





**Shikha Gupta**  
NextWork Student

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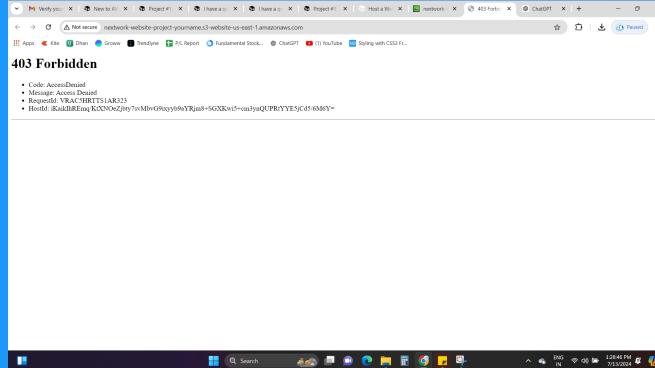
# An error!

**When I first visited the bucket endpoint URL, I saw...**

I have seen 404 error message displayed on screen

## Why did I get an error?

The error message you're seeing is telling you that your static website is being hosted by S3, but the actual HTML/image files you've uploaded are still private.



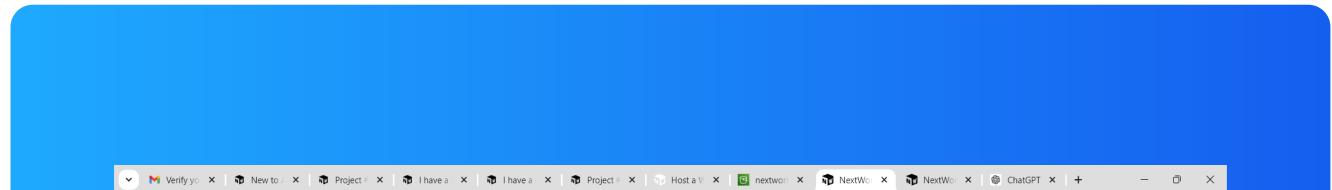
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NextWork Student

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# Success

## How I resolved my error...

I have give public read access under ACL for both index.html and other folder



Not secure nextwork-website-project-username.s3-website-us-east-1.amazonaws.com

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