

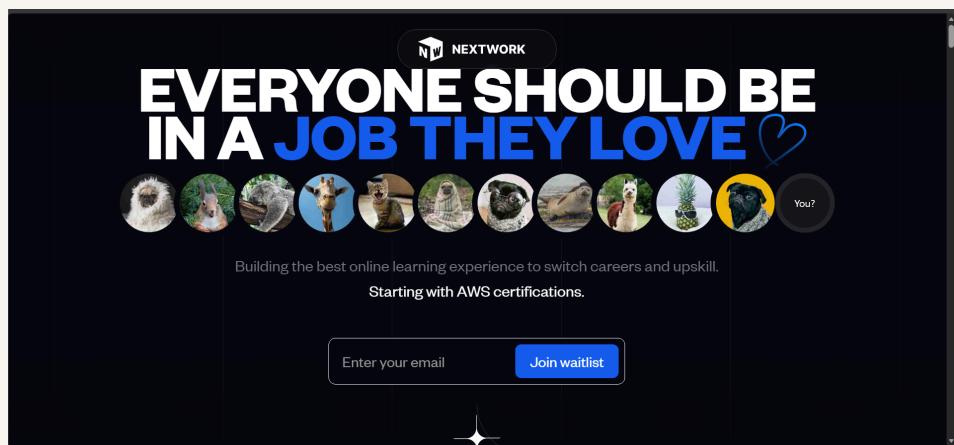


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# Host a Website on Amazon S3

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Harshada Kripal





# Introducing Today's Project!

## Project overview

In this project, I will demonstrate... I'm doing this project to apply my knowledge of AWS Cloud Practitioner

## Tools and concepts

Services I used were S3 bucket... Key concepts I learnt include updated the accessories of the files inside bucket. using acl we made files inside bucket public. Once we see our bucket endpoint we can see a webpage all loaded.

## Time, challenges, and wins

This project took me approximately half hour. It was very tough until I started building this project. It was very helpful.

# How I Set Up an S3 Bucket

## What I did in this step

In this step, I'm going to open S3 service in AWS console and will create a S3 bucket to store files in it.

## How long it took to create the bucket

Creating an S3 bucket took me just 2 minutes.

## Region selection

The Region I picked for my S3 bucket was Ohio... because it's the region that's closest to me. It's best practice to do so to reduce latency.

## Understanding bucket name uniqueness

S3 bucket names are globally unique! This means no two AWS S3 buckets should be the same regardless of this region and account ID. They should be unique.

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The screenshot shows the AWS S3 console interface. On the left, there's a sidebar with navigation links like Home, Buckets, StorageLens, Metrics, and Notifications. The main area has tabs for 'General purpose buckets' (selected) and 'All AWS Regions'. Below the tabs, there's a search bar labeled 'Find buckets by name' and a table with three columns: 'Name', 'AWS Region', and 'Creation date'. The table contains three rows:

Name	AWS Region	Creation date
elasticbeanstalk-us-east-2-051826730775	US East (Ohio) us-east-2	March 14, 2025, 13:13:48 (UTC-05:00)
harsha-demo-s3	US East (Ohio) us-east-2	February 20, 2025, 15:56:38 (UTC-06:00)
nextwork-website-project-harshada	US East (Ohio) us-east-2	December 17, 2025, 18:49:48 (UTC-06:00)

On the right side, there are three cards: 'Account snapshot' (updated daily), 'External access summary - new' (updated daily), and 'Storage Lens' which provides visibility into storage usage and activity trends.



# Upload Website Files to S3

## What I did in this step

In this step we will upload two files in the s3 the bucket. Firstly the html file and secondly the folder which has many images in it.

## Files I uploaded

I uploaded two files to my S3 bucket - they were necessary for this project. As the html file states the structure, but that alone does not illustrate the context of website. Index.html will not have actual images so we need to supply image separately.

## How the files work together

Both files are necessary for this project as users can see the structure of the website which is shown by html file and images are in the folder which users can see.



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Upload succeeded  
For more information, see the [Files and folders](#) table.

[Files and folders](#) Configuration

Files and folders (45 total, 2.7 MB)

Find by name

Name	Folder	Type	Size	Status	Error
<a href="#">DS_Store</a>	NextWork - Everyone should ...	-	10.0 KB	<span>Success</span>	-
<a href="#">1.jpg</a>	NextWork - Everyone should ...	image/jpeg	4.0 KB	<span>Success</span>	-
<a href="#">10.jpg</a>	NextWork - Everyone should ...	image/jpeg	4.1 KB	<span>Success</span>	-
<a href="#">11.jpg</a>	NextWork - Everyone should ...	image/jpeg	4.2 KB	<span>Success</span>	-
<a href="#">12.jpg</a>	NextWork - Everyone should ...	image/jpeg	4.5 KB	<span>Success</span>	-
<a href="#">2.jpg</a>	NextWork - Everyone should ...	image/jpeg	3.8 KB	<span>Success</span>	-
<a href="#">3.jpg</a>	NextWork - Everyone should ...	image/jpeg	3.4 KB	<span>Success</span>	-
<a href="#">4.jpg</a>	NextWork - Everyone should ...	image/jpeg	3.7 KB	<span>Success</span>	-
<a href="#">5.jpg</a>	NextWork - Everyone should ...	image/jpeg	3.7 KB	<span>Success</span>	-
<a href="#">6475b3ff55ad35ace9c09cc_tik...</a>	NextWork - Everyone should ...	image/svg+xml	711.0 B	<span>Success</span>	-

# Static Website Hosting on S3

## What I did in this step

In this step, I will make my website available to the world . because this is called static website hosting and its imp website files will stay as files and not turn into website.

## Understanding website hosting

Website hosting means putting our website files on a web server which is a computer design to turn the files into a website page that people can visit.

## How I enabled website hosting

To enable website hosting with my S3 bucket, I went into the properties step enable static website hosting and also labeled index.html as our doc.

## Access Control Lists (ACLs)

An ACL is a set of rules that decides who can get access to a resource. Enabling ACLs in this S3 setup lets you control who can access and do things with the objects (i.e. website files) you upload into your bucket.



The screenshot shows the 'Edit static website hosting' configuration page for a bucket named 'nextwork-website-project-harshada'. The left sidebar includes sections for Buckets, Access management and security, Storage management and insights, and AWS Marketplace for S3. The main panel shows the 'Static website hosting' configuration with 'Enable' selected for Static website hosting and 'Host a static website' selected for Hosting type. A note indicates that content must be publicly readable. The 'Index document' field is set to 'index.html'. The bottom right corner shows standard AWS navigation links: CloudShell, Feedback, Console Mobile App, Privacy, Terms, and Cookie preferences.



# Bucket Endpoints

## Understanding bucket endpoint URLs

Once static website is enabled, S3 produces a bucket endpoint URL, which is url that takes you to website that takes anyone on the internet.

## What I saw when I tested the endpoint

When I first visited the bucket endpoint URL, I saw... The reason for this error was 403 forbidden, because objects in the bucket are public by default even though we switched off block public access but website files are completely private.

**403 Forbidden**

- Code: AccessDenied
- Message: Access Denied
- RequestId: WVJHG7667MN7C75D
- HostId: HuHsMRCiVLtien6sgl8CqHbgW4IiiIXNiZ7/1oql+GeE2kQlgP+CK/U2ntVJTxtFhoLdxo8E=

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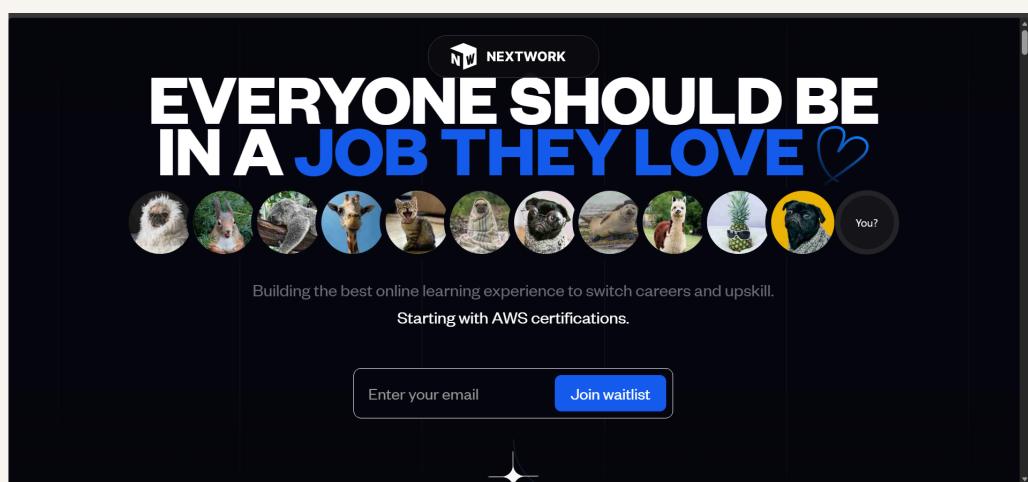
# Success!

## What I did in this step

In this step, I will make my website files in s3 publicly accessible so that everyone can see it when it goes live on internet.

## How I resolved the 403 error

To resolve this 403 Forbidden error, I made the objects inside my bucket public by making them public using ACL.





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