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# Host a Website on Amazon S3



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The screenshot shows a dark-themed website for "NEXTWORK". At the top, there's a navigation bar with categories like "Security", "Cisco Prep", "Apprenticeship", "Cloud Computing", "QBCC", "PerScholas", "Learning Tools", "Learning Skills", "Project Ideas", "Productivity", "Career Dev", "Web Development", "WICYS", "EmTODO", and "Proto-S". Below the navigation is the "NEXTWORK" logo, which consists of a stylized "NW" icon followed by the word "NEXTWORK". The main headline reads "EVERYONE SHOULD BE IN A JOB THEY LOVE" with a blue heart icon. Below the headline is a row of circular icons featuring various animals (a sloth, a kangaroo, a zebra, a giraffe, a cheetah, an owl, a penguin, a whale, a llama, a dog, and a person) and a "You?" icon. A sub-headline states "Building the best online learning experience to switch careers and upskill. Starting with AWS certifications." At the bottom, there's a form with a placeholder "Enter your email" and a blue button labeled "Join waitlist".



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# Introducing Today's Project!

## What is Amazon S3

Amazon S3 (Simple Storage Service), is a bucket storage from AWS that lets you store and access any amount of data from anywhere on the internet. It's perfect for securely storing files online or hosting static websites.

## How I used Amazon S3 in this project

I used Amazon S3 in today's project by creating and hosting a website online.

## One thing I didn't expect in this project was...

I didn't expect to be this easy to host a static website on S3 bucket.

## This project took me...

It took me 30 minutes to do this project.



# How I Set Up an S3 Bucket

Creating an S3 bucket took me few minutes.

I chose the N. Virginia region for my S3 bucket as it is the closest data center to my location, ensuring low latency and optimal performance.

S3 bucket names are globally unique, ensuring that no one else in the world can use the same name or URL path as my S3 bucket.

Name	AWS Region	IAM Access Analyzer	Creation date
nextwork-website-project-emilledion	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	November 3, 2024, 01:07:41 (UTC-05:00)



# Upload Website Files to S3

## index.html and image assets

I uploaded two files to my S3 bucket, they were index.html and the subfolder which contains the images, css, and other files.

Both files are essential for this project to ensure that all necessary images load properly from my S3 bucket when the website is accessed.

The screenshot shows the AWS S3 console interface. At the top, there's a navigation bar with tabs for Objects, Properties, Permissions, Metrics, Management, and Access Points. The 'Objects' tab is selected. Below the navigation bar, there's a toolbar with actions like Copy S3 URI, Copy URL, Download, Open, Delete, Actions (with a dropdown menu), Create folder, and Upload. A search bar labeled 'Find objects by prefix' is present, along with a 'Show versions' button. The main area displays a table of objects:

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	index.html	html	November 3, 2024, 01:17:52 (UTC-05:00)	58.8 KB	Standard
<input type="checkbox"/>	NextWork - Everyone should be in a job they love_files/	Folder	-	-	-

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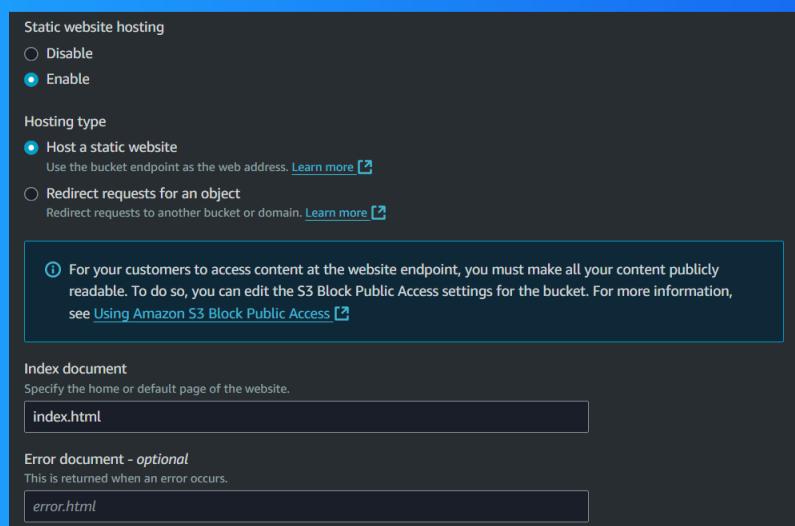
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# Static Website Hosting on S3

Website hosting means storing and maintaining a website's files, data, and content online, making it accessible over the internet. When hosting a website, it essentially publish over the internet.

To enable website hosting on my S3 bucket, I went to "Edit static website hosting," selected "Enable," and chose "Host a static website." Then, I entered "index.html" in the Index Document field.

An ACL (Access Control List) is a set of rules that defines who can access my resources. I enabled ACL to manage and control access to my bucket and its objects with greater granularity.





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# Bucket Endpoints

A bucket website endpoint is a unique URL provided by Amazon S3 that allows you to access the contents of your bucket as a static website.

When I clicked the bucket endpoint URL, I encountered a 403 error because, by default, files in S3 are private for security reasons.

## 403 Forbidden

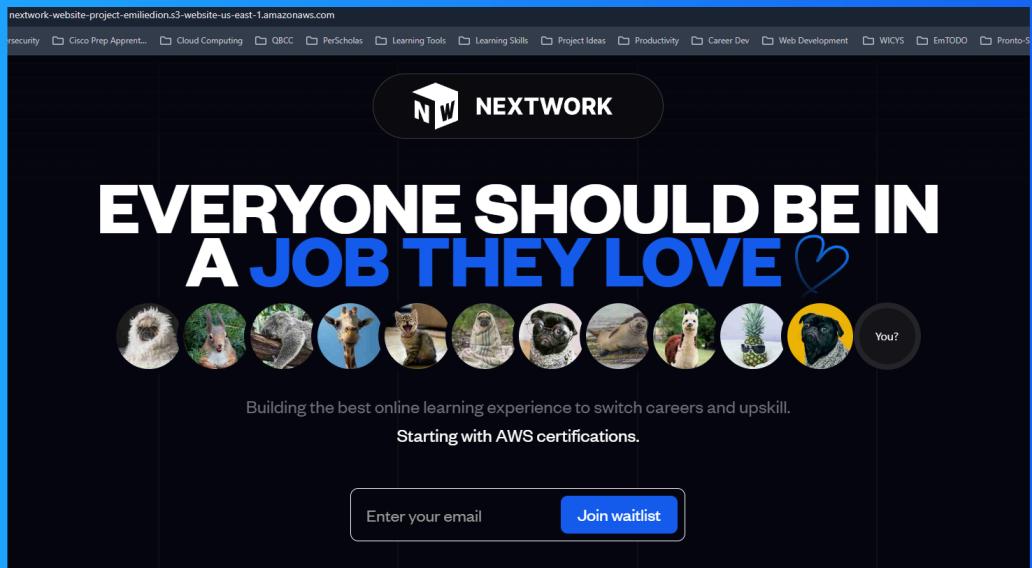
- Code: AccessDenied
- Message: Access Denied
- RequestId: ATRKY5KZNCTWDSQ
- HostId: prTyBEwRzOit3gh5ONaplSOJ3rOdD8+tiB1Plp+/WiLQbwoA2Fqcs8l07AYylqMfhpA5njSY0I=

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# Success!

I resolved the connection error by selecting both the index.html file and the subfolder, clicking on Actions, and choosing Make public using ACL.





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