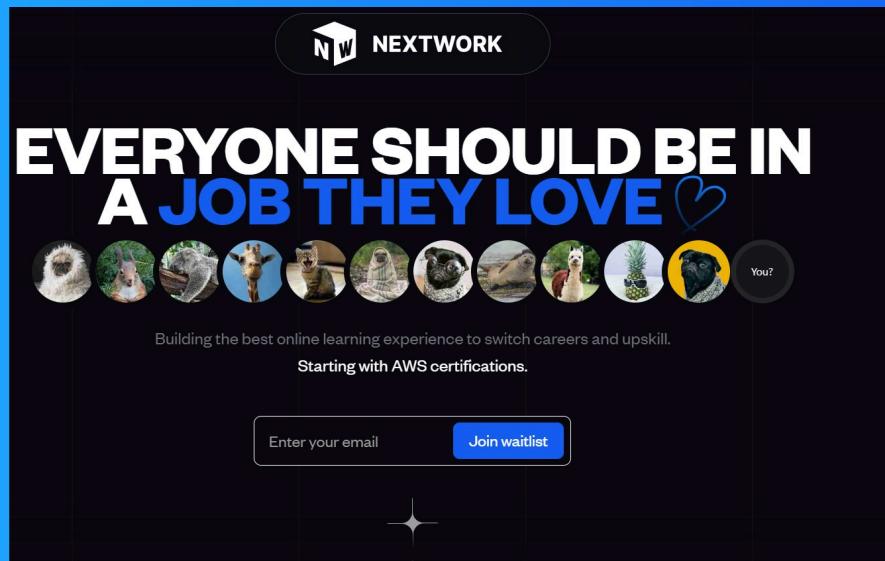




NextWork.org

# Host a Website on Amazon S3

 Nikhil Bhan



The screenshot shows the homepage of NextWork.org. At the top, there's a dark header with the "NEXTWORK" logo. Below it, a large, bold headline reads "EVERYONE SHOULD BE IN A JOB THEY LOVE" with a blue heart icon. Underneath the headline is a horizontal row of twelve small circular images, each containing a different animal or object, followed by a "You?" button. Below this row, a sub-headline says "Building the best online learning experience to switch careers and upskill. Starting with AWS certifications." At the bottom, there are two input fields: "Enter your email" and a blue "Join waitlist" button.



# Introducing Today's Project!

## What is Amazon S3

I used Amazon S3 to upload my files to a bucket I created to host a public static website on the Internet.

## How I used Amazon S3 in this project

Static Website hosting allows the user of an AWS account to make their website accessible on the Internet. The website hosted is static, meaning that the content is the same for anyone who sees it.

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

This project was a fun way to start learning AWS and I wasn't expecting it to be easy, but it was a good way to learn about S3 buckets and configuring access to objects on the AWS Management Console.

## This project took me...

This project took me about an hour to complete.

# How I Set Up an S3 Bucket

5 minutes

I picked Canada (Central) since that is where I live.

S3 bucket names are globally unique because all AWS accounts use the same namespace. Once a bucket is named then no other AWS account can use that name until the user deletes it. After that the bucket name can be used by another AWS account.





# Upload Website Files to S3

## index.html and image assets

I uploaded one file called index.html and the other one is a folder called NextWork.

The index.html file is the main page that will be seen on the browser. The folder contains images and other content that the index.html may use for the website.

Objects (2) <small>Info</small>					
<small>Objects are the fundamental entities stored in Amazon S3. You can use <a href="#">Amazon S3 inventory</a> to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. <a href="#">Learn more</a></small>					
<input type="text"/> <small>Find objects by prefix</small>		<input checked="" type="radio"/> Show versions			
Name	Type	Last modified	Size	Storage class	
<input type="checkbox"/> index.html	html	July 18, 2024, 22:03:21 (UTC-07:00)	58.8 KB	Standard	<input type="button" value="Upload"/>
<input type="checkbox"/> NextWork - Everyone should be in a job. they love_files/	Folder	-	-	-	



# Static Website Hosting on S3

Making a website available on the Internet to be viewed.

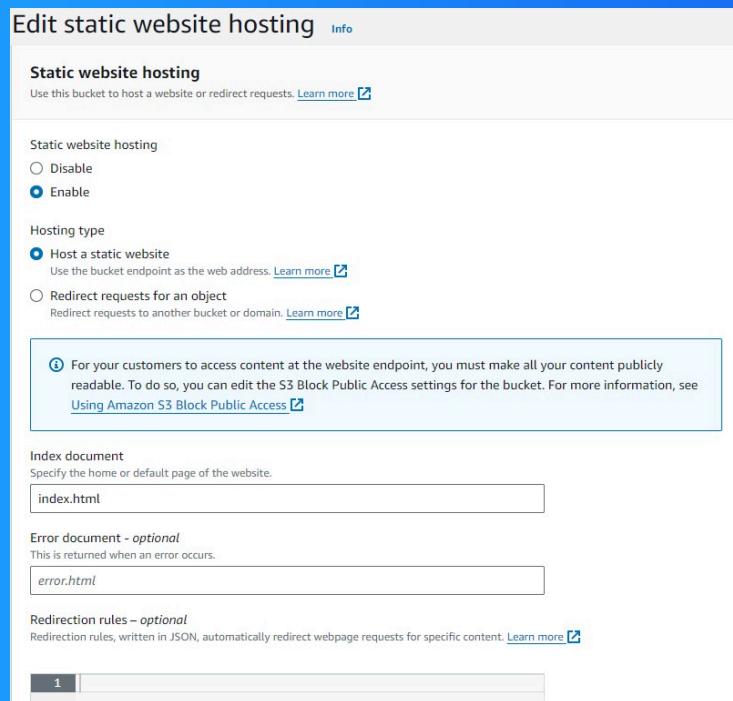
To enable website hosting the HTML and other files for the website need to be uploaded to the S3 bucket that was created.

## Access Control Lists (ACL)

An Access Control List (ACL) is a set of one or more rules that will determine who can get access to resources. I decided to use Bucket Owner for the ACL for my bucket. Right now it's just me accessing the resources in the bucket, no one else.

# Bucket Endpoints

The bucket endpoint URL directs the user to the page that displays the HTML file that was uploaded to the S3 bucket; in this case the index.html page will be displayed in the web browser when clicked.



# An error!

The browser displays a 403 Forbidden error on the web page. The HTML page cannot be viewed since access is denied to the user who clicked on the URL.

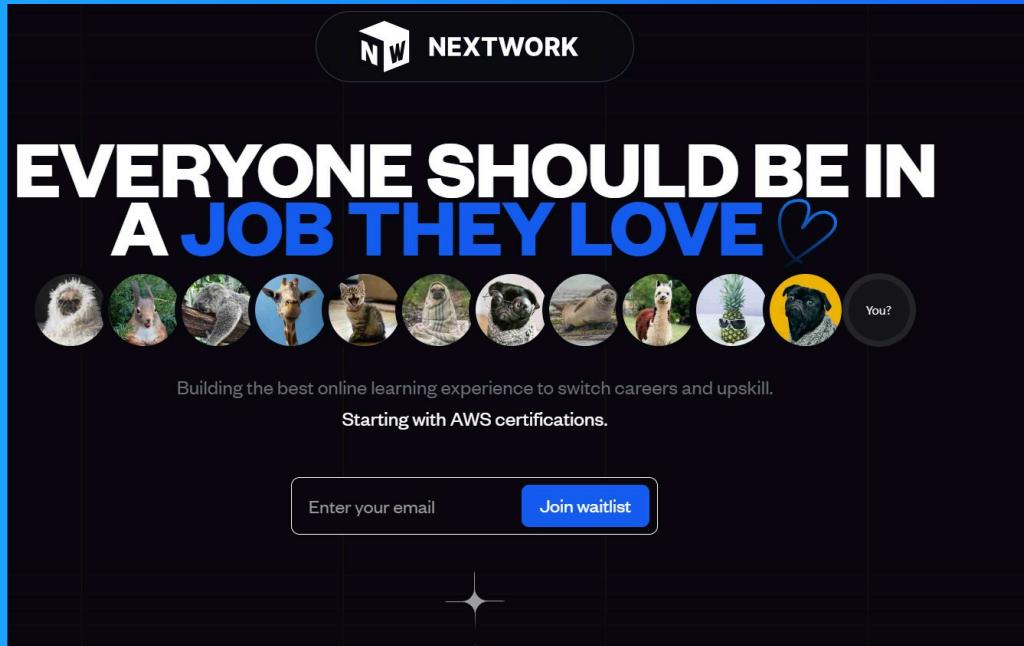
The HTML and image files are still private even though they're in the S3 bucket. The contents of these files can be displayed once these objects are enabled for public access.

## 403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: Y2YY8H5CGN90CPMN
- HostId: XARKD5XMKTbpnEe4r9h0gUUddaRphR9DgVhAdLkAMSHbdsRfg0OhXHVu3wD4HYERmPJHMHMr0l/eW3Q/a/XE6PQZZIFT4us/

# Success!

I clicked on the checkbox for each object in my S3 bucket and then selected the "Make Public using ACL" under the 'Actions' dropdown menu. After this step was done I refreshed the browser page and was able to view the webpage content.





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should be in a  
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