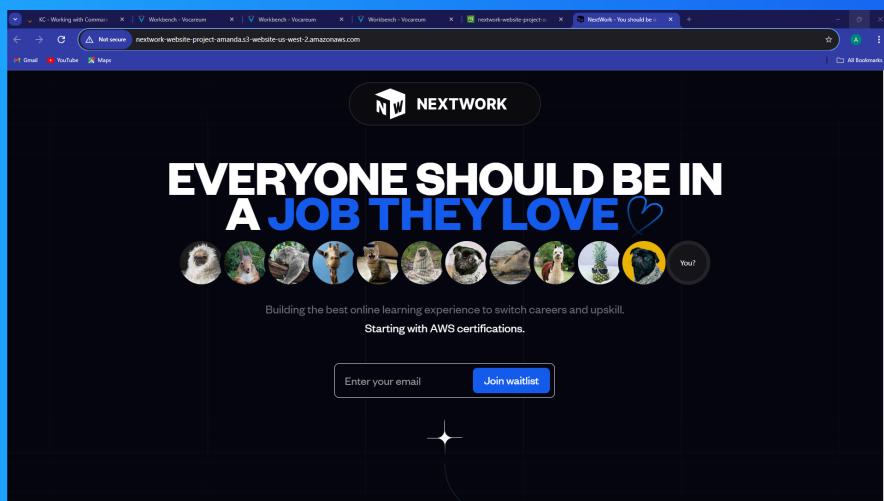




Host a Website on Amazon S3



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Introducing Today's Project!

What is Amazon S3

Amazon S3 (Simple Storage Service) is a scalable cloud storage service provided by Amazon Web Services (AWS). It allows you to store and retrieve any amount of data from anywhere on the web. It is highly reliable.

How I used Amazon S3 in this project

I created a bucket and hosted a static website publicly.

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

I did not expect the process to be simple. It was quite straight forward once you get an understanding of what needs to be done.

This project took me...

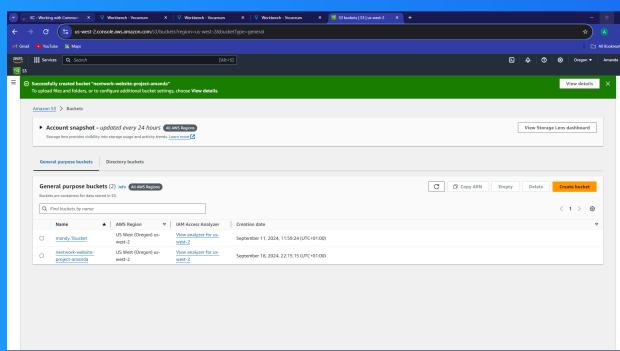
It took me less than an hour.

How I Set Up an S3 Bucket

Creating an S3 bucket took me 2 minutes. Very simple and fast process with the guidelines.

The Region i picked for my S3 bucket was US West (Oregon) because it is a less crowded region

S3 buckets bucket names are globally unique! This means no ones else can have the same bucket name as yours unless your bucket is deleted.





Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were index.html, NextWork - Everyone should be in a job they love_files/.

Both files are necessary for this project as they depend on each other for a website to be hosted successfully.

The screenshot shows the AWS S3 console interface. The URL in the browser is `us-west-2.console.aws.amazon.com/s3/buckets/nextwork-website-project-amanda?region=us-west-2&bucketType=general&tab=objects`. The page displays the contents of the 'nextwork-website-project-amanda' bucket. There are three objects listed:

Name	Type	Last modified	Size	Storage class
_MACOSX/	Folder	-	-	-
index.html	html	September 18, 2024, 22:46:27 (UTC+01:00)	58.8 KB	Standard
NextWork - Everyone should be in a job they love_files/	Folder	-	-	-



Static Website Hosting on S3

Website hosting means making the website publicly accessible

To enable website hosting with my S3 bucket, I... 1. Selected my bucket and chose Properties. 2. Selected edit for static website hosting. 3. Chose the 'Enable' option. This is how i enable website hosting.

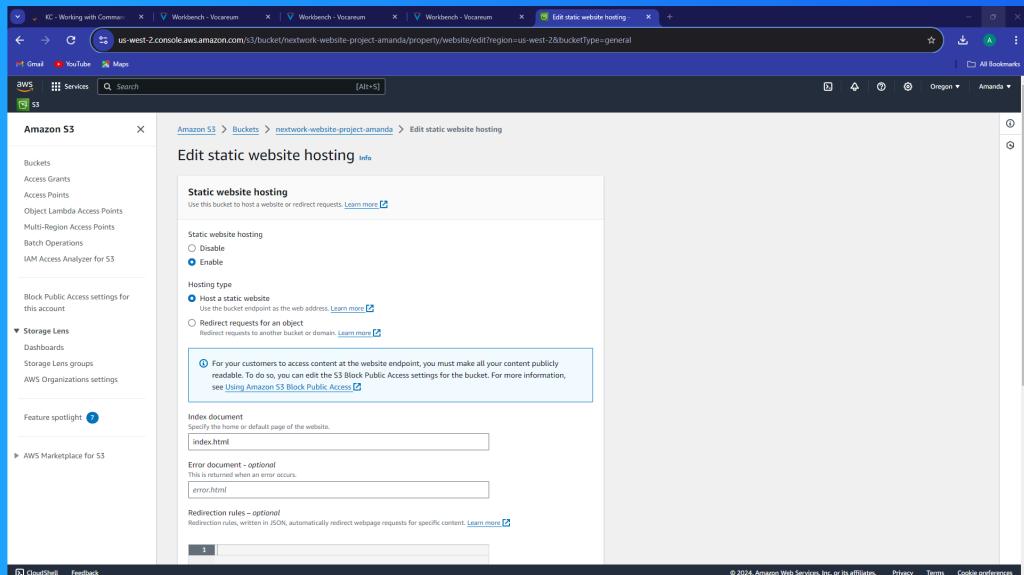
Access Control Lists (ACL)

An ACL is a set of rules that controls who gets acces to your resources. I enabled mine.



Bucket Endpoints

Once static website hosting is enabled, S3 produces a bucket endpoint URL, which is typically in the format:`http://bucket-name.s3-website-region.amazonaws.com`.

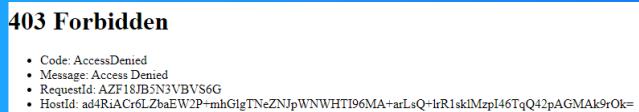




An error!

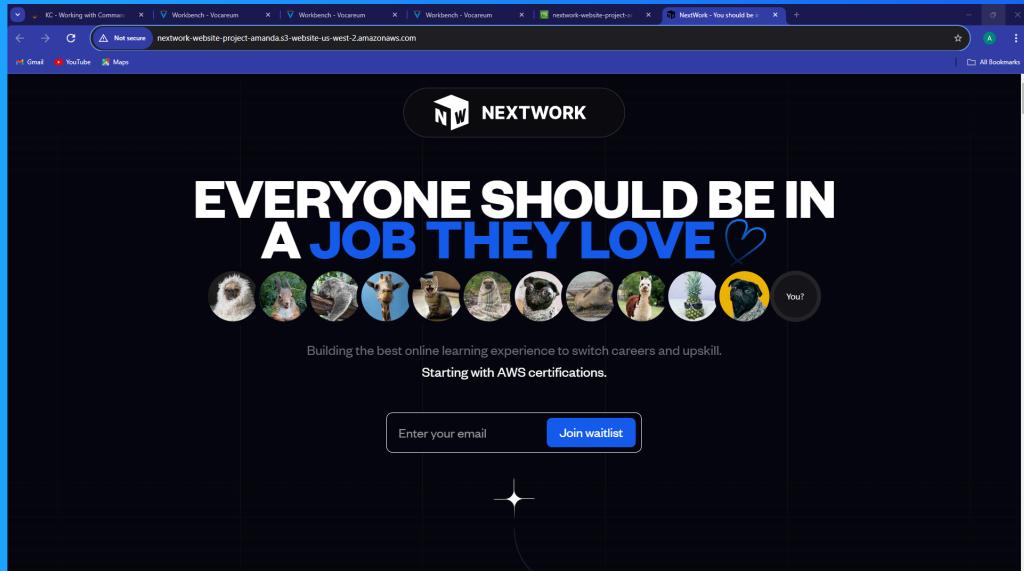
When I first visited the bucket endpoint URL, I saw an error message "403 Forbidden".

The reason for this error was that the ACLs have been enabled which is blocking public access to the file.



Success!

To resolve the connection error, I checked the files uploaded and realised I uploaded the wrong file. So i deleted it, uploaded the right file, made it public, and refreshed my web browser.





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