

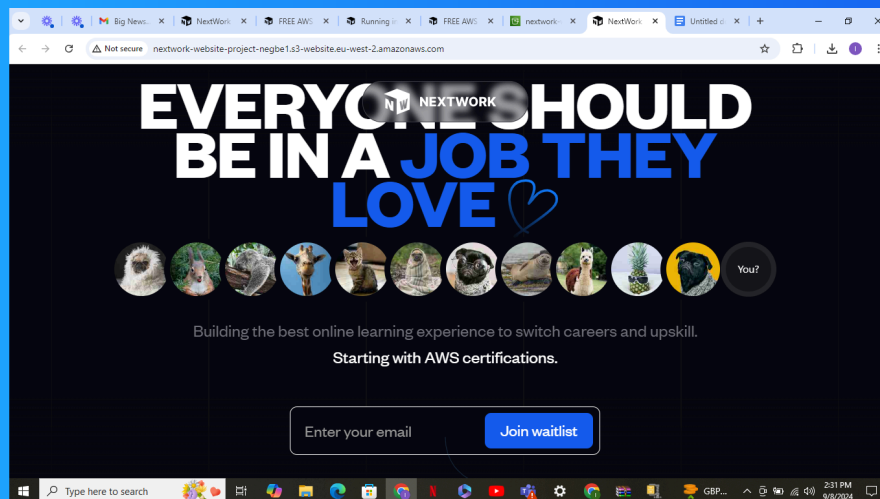


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Host a Website on Amazon S3



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Introducing Today's Project!

What is Amazon S3

Amazon S3 is a storage service that can be used to store an endless amount of files and is very useful to host static websites

How I used Amazon S3 in this project

I used S3 to create a bucket which i stored the files i needed to host my website

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

the issue with the CSS file but i figured my way around it and it made me very proud

This project took me...

30 minutes

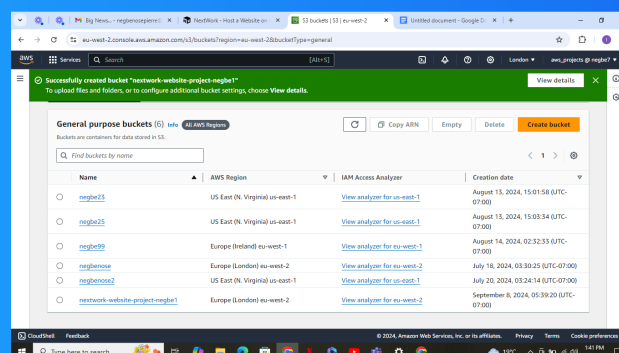


How I Set Up an S3 Bucket

Creating an S3 bucket took me only a few seconds to complete. The process is straightforward: I selected a globally unique bucket name, chose the AWS region, adjusted settings like versioning and ACLs, and clicked "Create." The bucket was ready insta

The Region I picked for my S3 bucket was eu-west-2 (London) because it is the closest AWS region to where I live, which helps reduce latency and improves access speeds for my applications and users

S3 bucket names must be globally unique because S3 uses a flat namespace shared across all AWS accounts. This prevents naming conflicts when accessing resources from anywhere globally



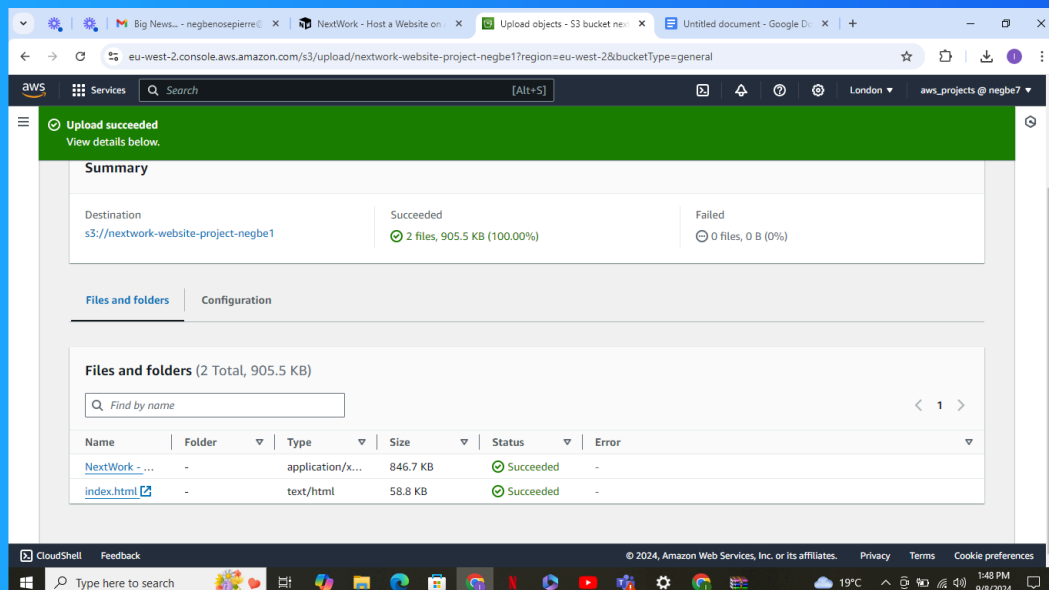


Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were "index.html" and the Network file that contained the css file and the images for the site , i also made sure to unzip the folder to ensure the process would be smooth

Both files are necessary for this project as the index.html file provides the structure and content of the website, while the CSS and image files offer essential styling and visuals. Without both, the site would appear unstyled and lack imagery.





Static Website Hosting on S3

Website hosting means providing a service that allows individuals or businesses to make their website accessible on the internet. It involves storing website files on a server that can be accessed globally by visitors

To enable website hosting with my S3 bucket, I went to the bucket settings, enabled "Static website hosting," uploaded my HTML and CSS files, specified the index document, and made the files publicly accessible.

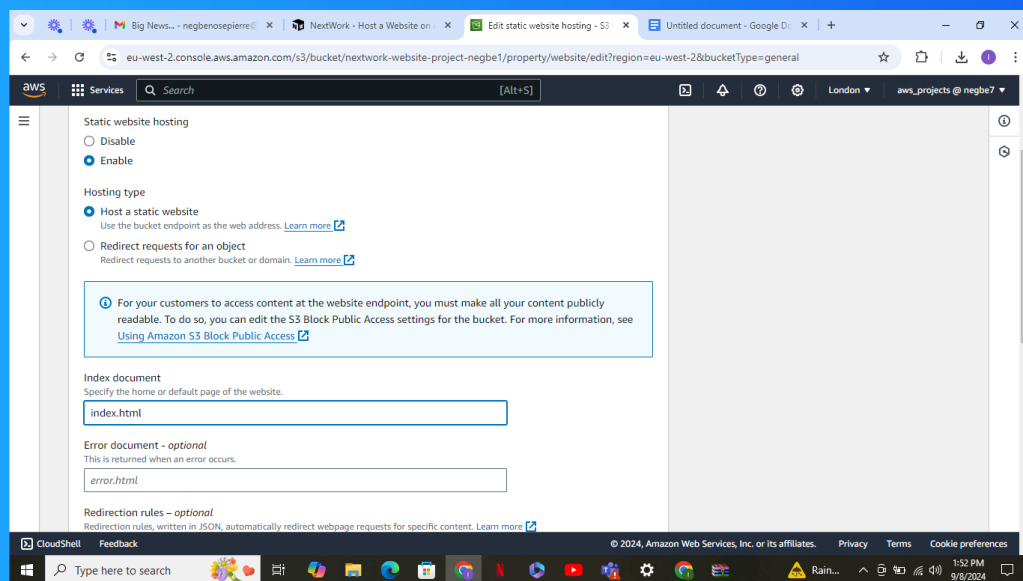
Access Control Lists (ACL)

An Access Control List (ACL) defines permissions for accessing specific resources in AWS, such as S3 buckets or objects. I did



Bucket Endpoints

Once static website hosting is enabled, S3 produces a bucket endpoint URL, which is a public web address that users can access to view the content of your bucket, such as HTML pages or media files

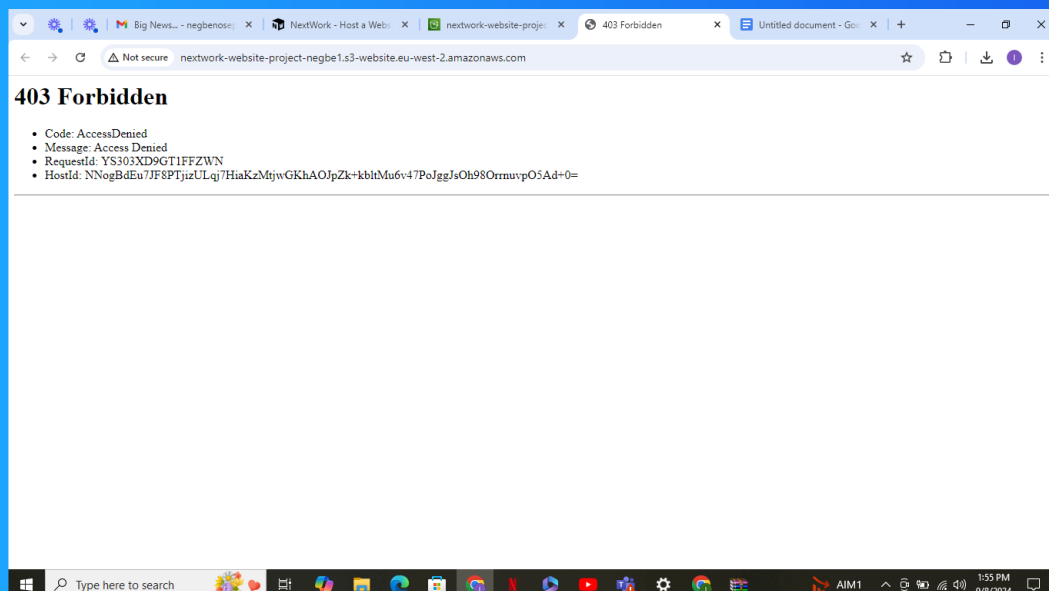




An error!

When I first visited the bucket endpoint URL, I received a 403 Forbidden error with an "Access Denied" message. This indicates that the S3 bucket permissions were not set to allow public access

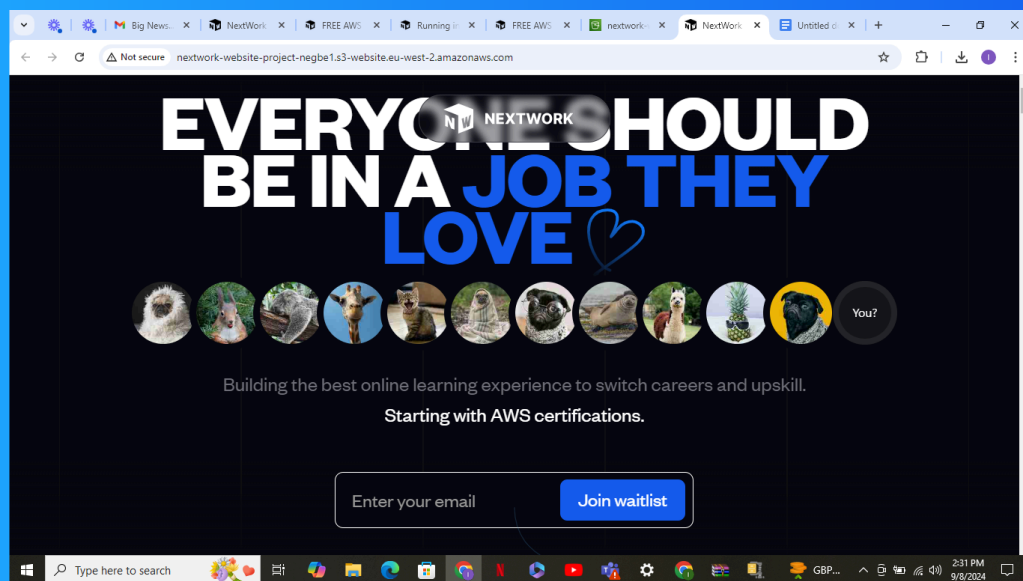
The reason for this error was that the S3 bucket's permissions weren't configured for public access. By default, S3 restricts access to buckets and objects to prevent unauthorized access, and I needed to update the bucket policy accordingly.





Success!

To resolve this connection error, I unzipped the CSS and image files, then uploaded them to a second folder in the S3 bucket. This allowed the site to properly access the necessary styling files, resolving the display issue





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