

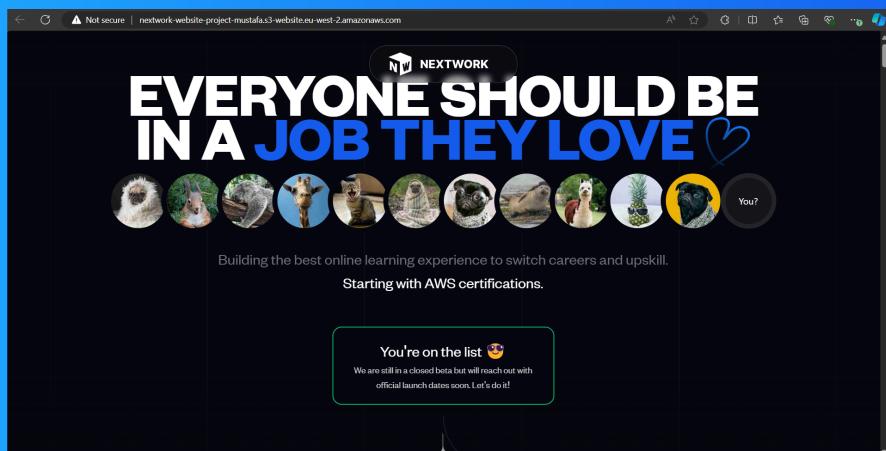


NextWork.org

Host a Website on Amazon S3



mustafa hassan





Introducing Today's Project!

What is Amazon S3

Amazon S3 is a scalable storage service that allows you to store and retrieve data from anywhere. It's useful for its high durability, easy access, scalability, and cost-effectiveness.

How I used Amazon S3 in this project

In today's project, I used Amazon S3 to host a static website by uploading the website files to an S3 bucket and configuring the bucket for static website hosting. This allowed the website to be accessible publicly via a URL.

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

One unexpected aspect was having to adjust file permissions to ensure that the website's assets were publicly accessible.

This project took me...

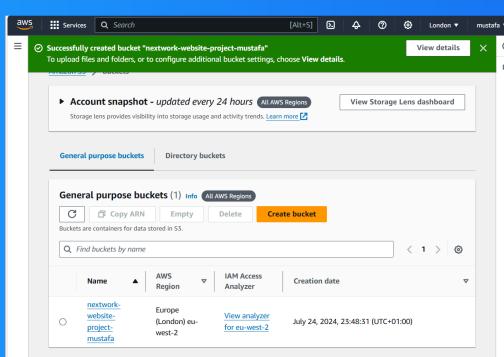
The project took an hour because I wanted to understand the steps more deeply.

How I Set Up an S3 Bucket

it took me about 10 minutes to create my S3 bucket because I wanted to thoroughly understand the bucket versioning and ACL rules.

The region I selected for my bucket was London (eu-west-2) because it's geographically closest to me, which can help reduce latency when accessing data. Additionally, selecting a region closer to where my users are located can improve the performance

Amazon S3 bucket names must be globally unique because the bucket name is incorporated into the URL used to access the bucket's contents. This uniqueness is crucial for several reasons and the major one being avoiding access conflicts.

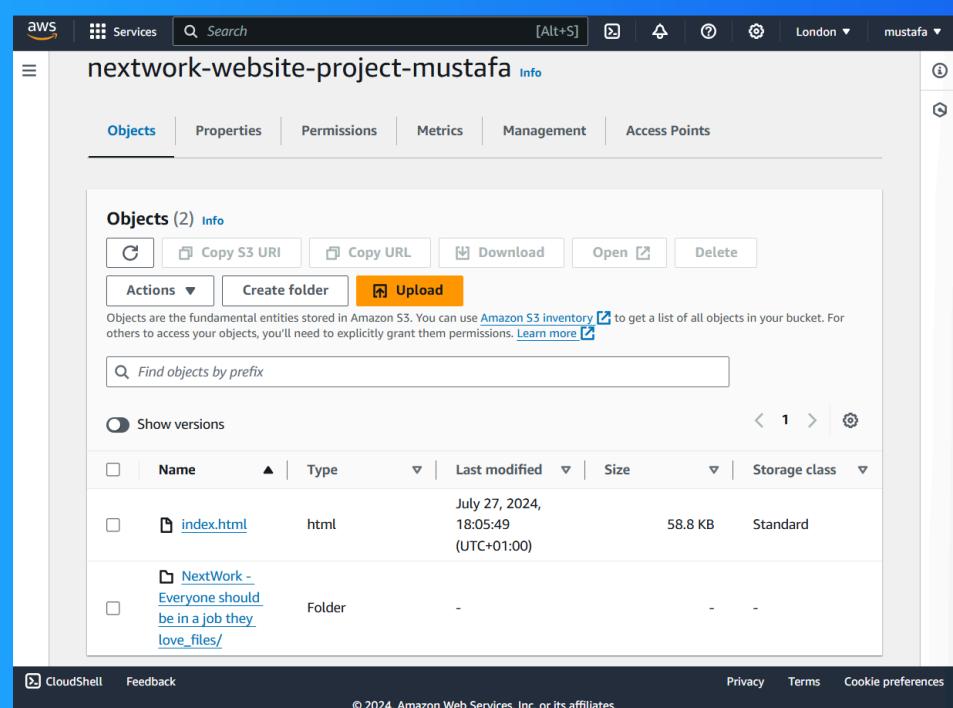


Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were index.html and a zip file containing additional website assets (Images).

Both files are necessary for this project as the index.html is the main webpage, and the zip file contains additional assets like images that the HTML file references to fully display the website.





Static Website Hosting on S3

Website hosting means making your website public and accessible over the internet

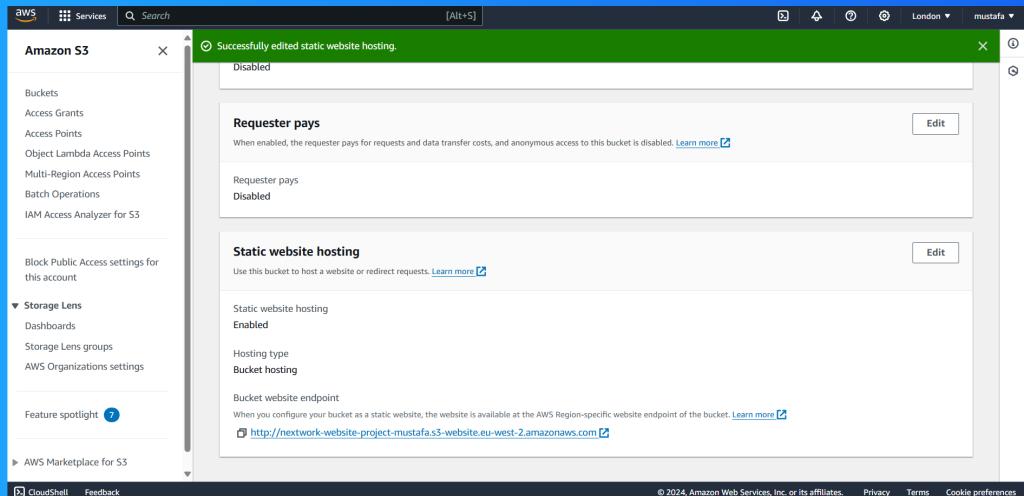
To enable website hosting with my S3 bucket, I selected my bucket, went to the Properties tab, scrolled down to Static website hosting, and enabled the option, ensuring I referenced the index.html as the index document.

Access Control Lists (ACL)

An ACL (access control list) is a set of rules which determine which users can access certain resources/objects. The ACL which I selected was the bucket ACL.

Bucket Endpoints

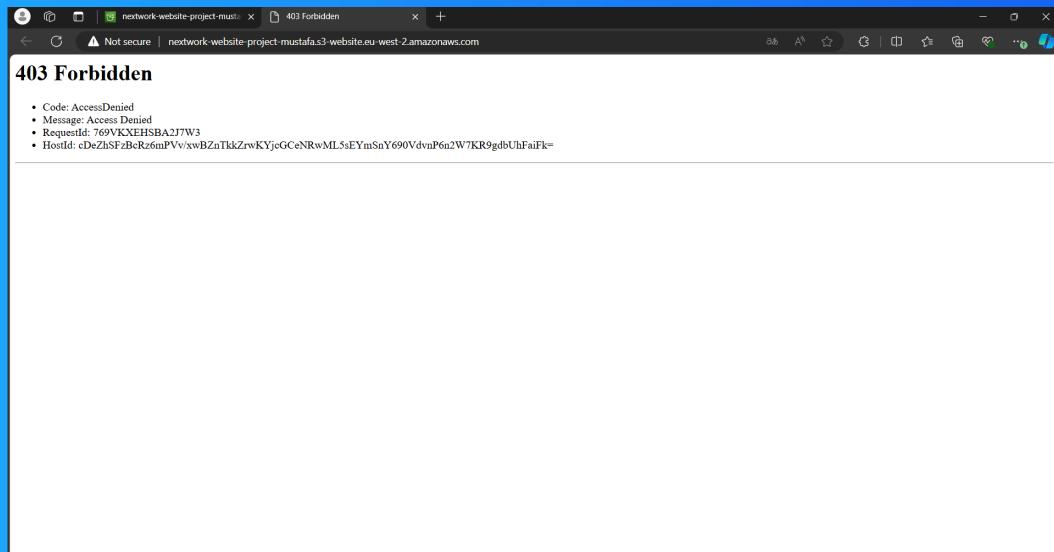
Once static website hosting is enabled, S3 produces a bucket endpoint URL, which provides a link where users can access the website over the internet.



An error!

When I first visited the bucket endpoint URL, I saw a 403 Forbidden message and an "Access Denied" code message.

The reason for this error was that the files were set to private by default when uploaded to the bucket, which made them inaccessible.



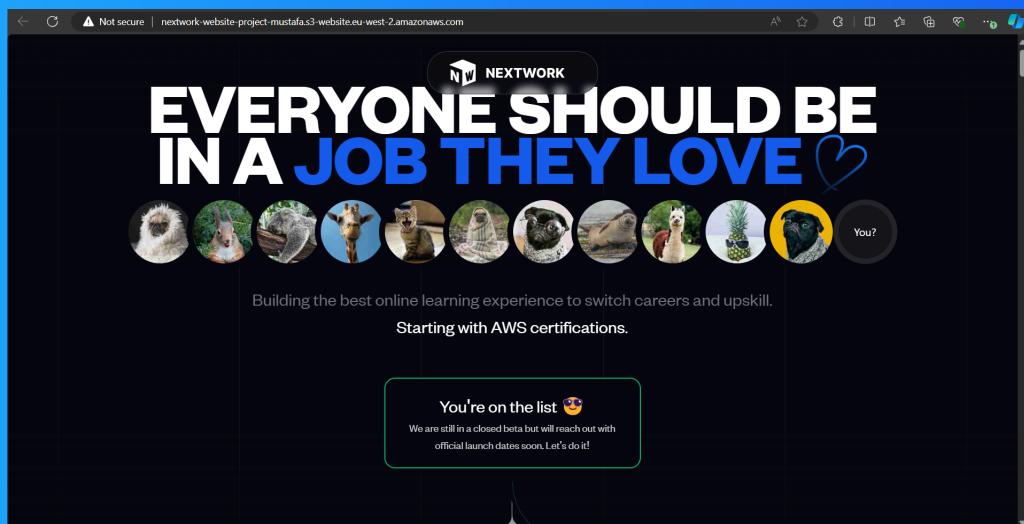
m

mustafa hassan
NextWork Student

NextWork.org

Success!

To resolve this connection error, I made the contents within the bucket public, as they were initially set to private.





NextWork.org

Everyone should be in a job they love.

Check out nextwork.org for
more projects

