

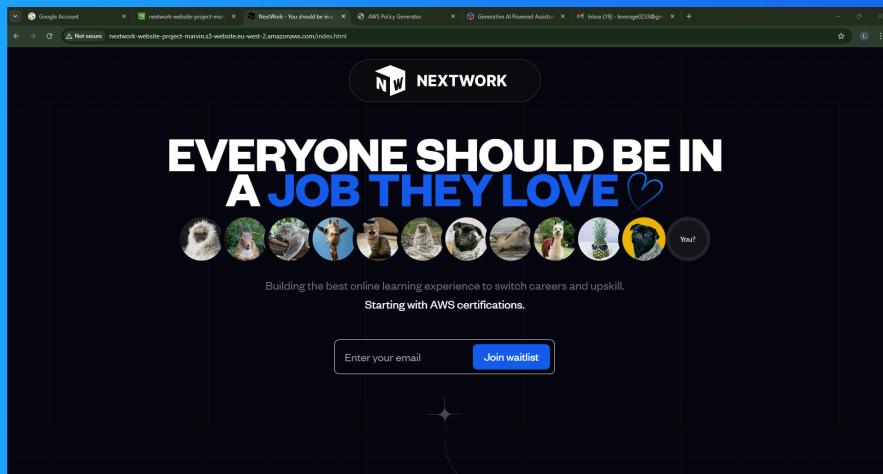


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Host a Website on Amazon S3



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Introducing Today's Project!

What is Amazon S3

Amazon S3 is an object storage that could be used to store files and folders and also be used to deploy static websites

How I used Amazon S3 in this project

I used Amazon S3 to deploy a static website that could be accessed publicly from the web.

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

One thing I did not expect was to generate and add a policy to my bucket.

This project took me...

This project took me about 50 minutes to complete.



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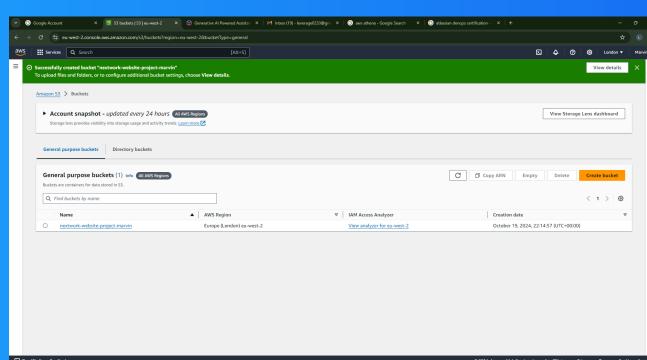
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How I Set Up an S3 Bucket

Creating an S3 bucket took me about 2 minutes on the console.

The Region I picked for my S3 bucket was 'eu-west-2' because it is closer to my location.

S3 bucket names are globally unique! This means there cannot be two buckets with the same name.





Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket: the 'index.html' file and the 'Nextwork' folder. All the files were successfully uploaded.

Both files are necessary for this project as the HTML file will deploy the website, while the folder contains all the required files and dependencies of the complete website.

The screenshot shows the AWS S3 console interface. The left sidebar displays 'Amazon S3 > Buckets > nextwork-website-project-marvin'. The main content area shows a table titled 'Objects (2) info' with the following data:

Name	Type	Last modified	Size	Storage class
index.html.html	html	October 19, 2024, 23:13:56 (UTC+00:00)	58.8 KB	Standard
NextWork/	Folder			

At the top of the page, there are several action buttons: Copy S3 URI, Copy URL, Download, Open, Delete, Actions, Create folder, and Upload. A search bar and a 'Find objects by prefix' input field are also present at the top.



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Static Website Hosting on S3

Website hosting means deploying a website to the internet for public access.

To enable website hosting with my S3 bucket, I selected the bucket for this specific project, then I went on to properties, then at the 'static website hosting' panel, I enabled static website hosting and specified the index document as 'index.html'.

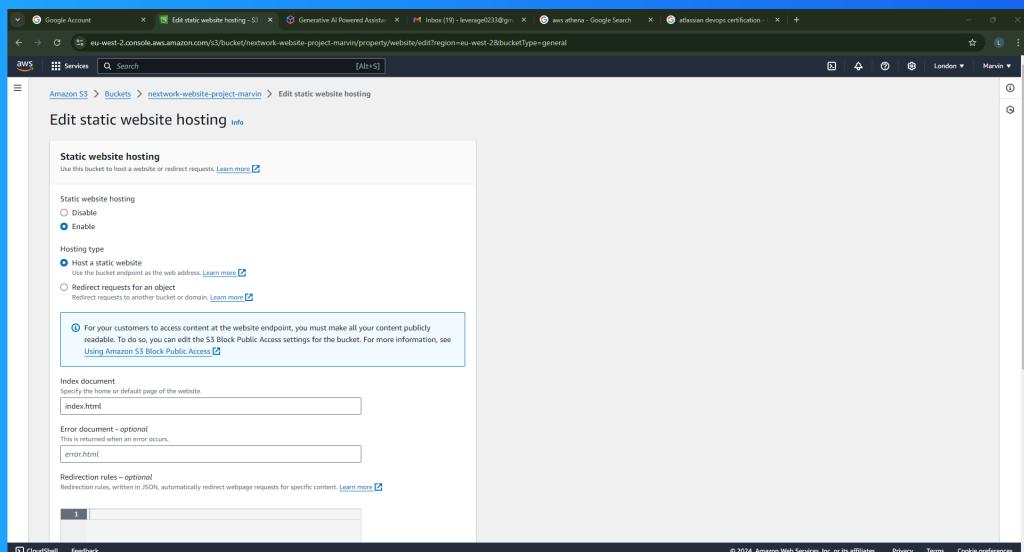
Access Control Lists (ACL)

An ACL is a function that helps to restrict access to S3 buckets and their objects. In this project I enabled ACL.



Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is a URL that will take anyone to a page that displays the HTML file I just uploaded.





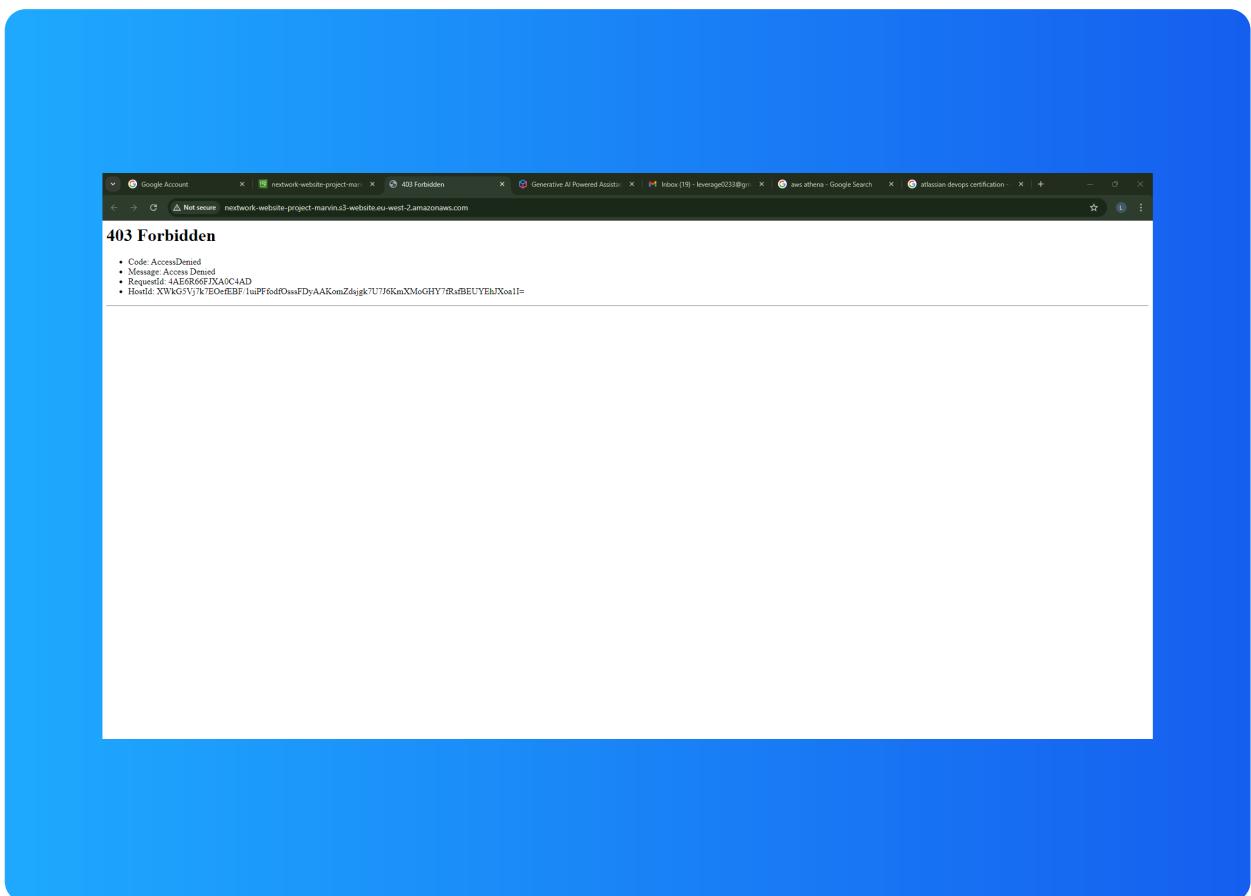
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An error!

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

The reason for this error was that the HTML file and images I uploaded are private by default, therefore the permissions of the bucket have to be changed to public to access the URL.



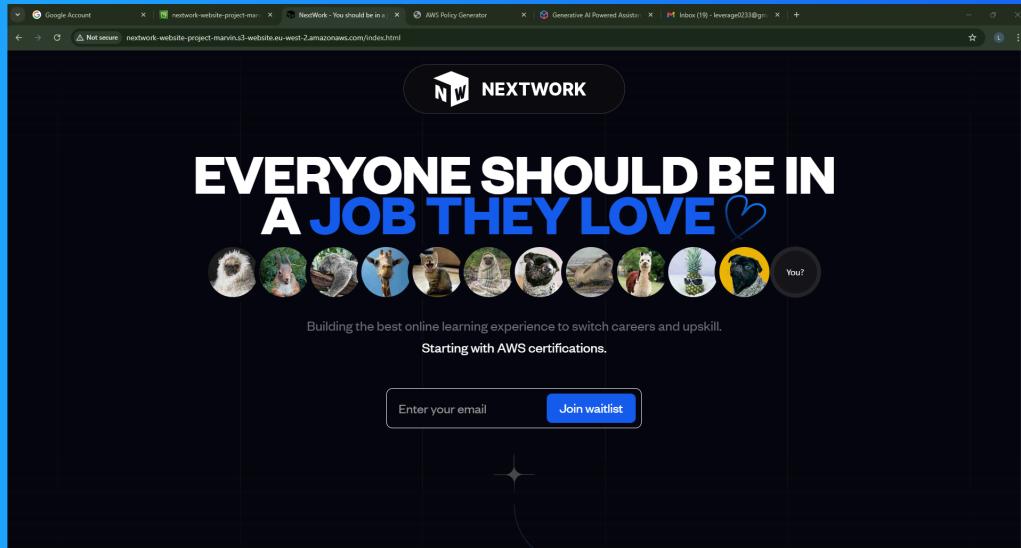


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Success!

To resolve this connection error, I generated a policy to allow S3:GetObject from Principal:"*" with my arn as my bucket name. Although I had other issues with the unzipped folder, I successfully uploaded the right folder.





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