

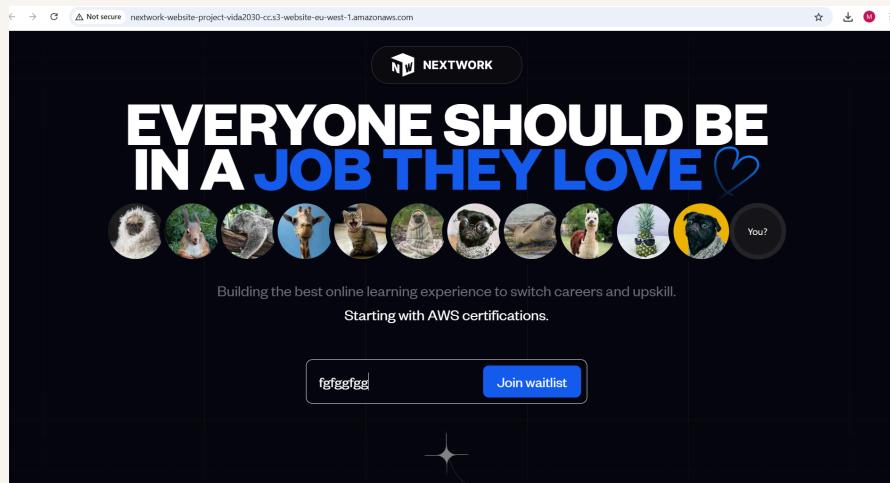


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# Host a Website on Amazon S3



muzyavida@gmail.com



# Introducing Today's Project!

In this project, I will demonstrate how to use Amazon S3(Amazon Simple Storage Service) to host a static website and I'm doing this project to learn how to host a static website and make it accessible to the public.

## Tools and concepts

Services I used were S3. Key concepts I learnt include Access Control lists, Static website configuration, HTML, bucket.

## Project reflection

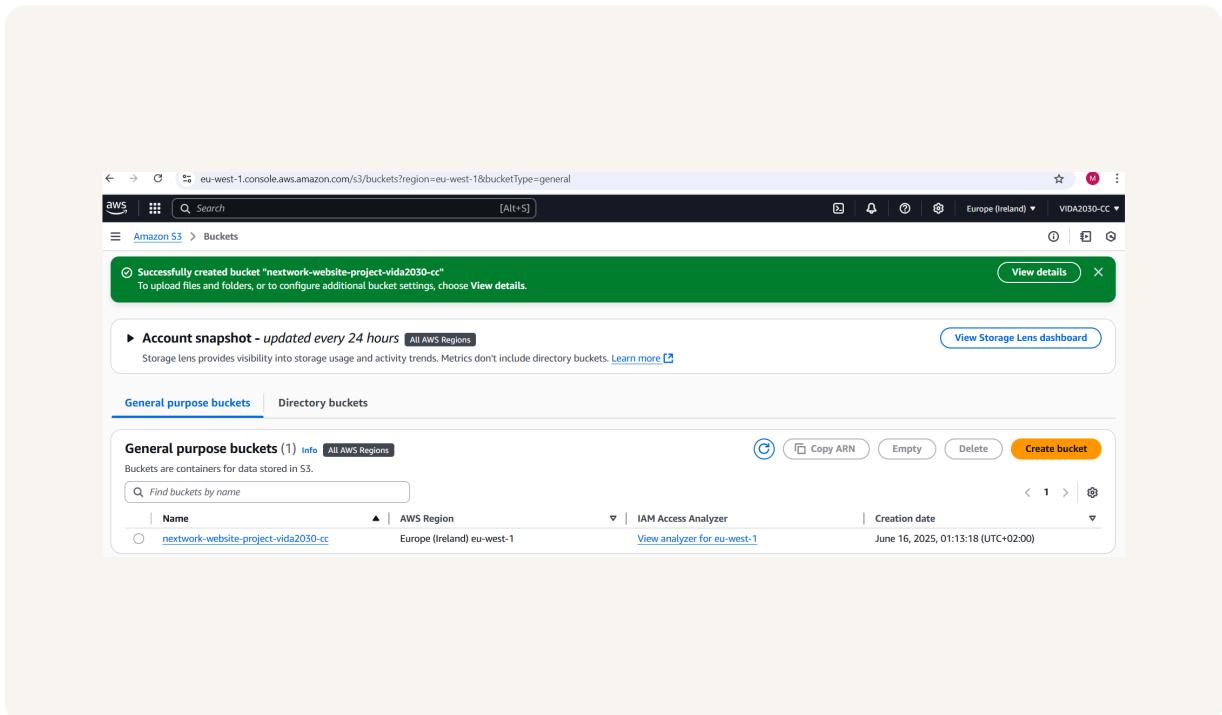
This project took me approximately one hour. The most challenging part was fixing the 403 forbidden error on the website. It was most rewarding to fix the error and finally see the website come alive!

# How I Set Up an S3 Bucket

Creating an S3 bucket took me about 10 minutes because I had to make sure I got the gist of everything but it was definitely easier than I thought.

The Region I picked for my S3 bucket was Ireland and this was because it is closest to my region. When I chose Frankfurt which is actually closer some features seen in the tutorial were disabled so I opted for the closest option with all the features.

S3 bucket names are globally unique! This means every bucket name has to be completely different from any other name under the AWS globally, this is to be able to identify your unique bucket and not mistake it for someone else's bucket.

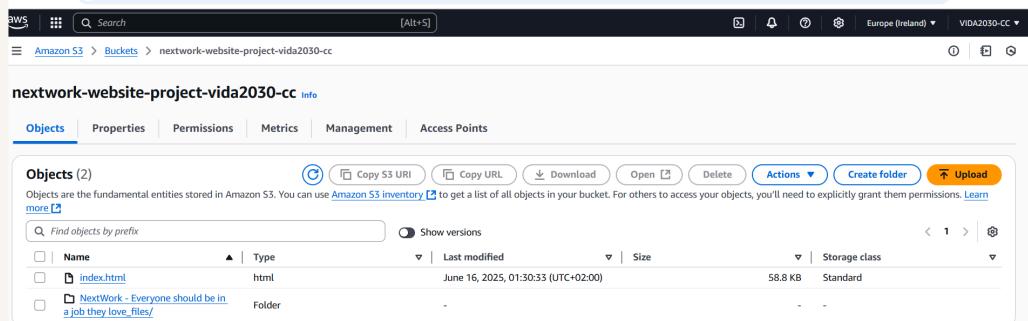


# Upload Website Files to S3

## index.html and image assets

I uploaded two files to my S3 bucket and these were the index.html file which has the blue print of what the website shoud look like and the placements and the second one was a zip file i unzipped and it contained the images to go with the html file

Both files are necessary for this project as the html fie on its own is a skeleton or blue print of how the website should look like but adding the images from the zip file makes it come all together and come alive!

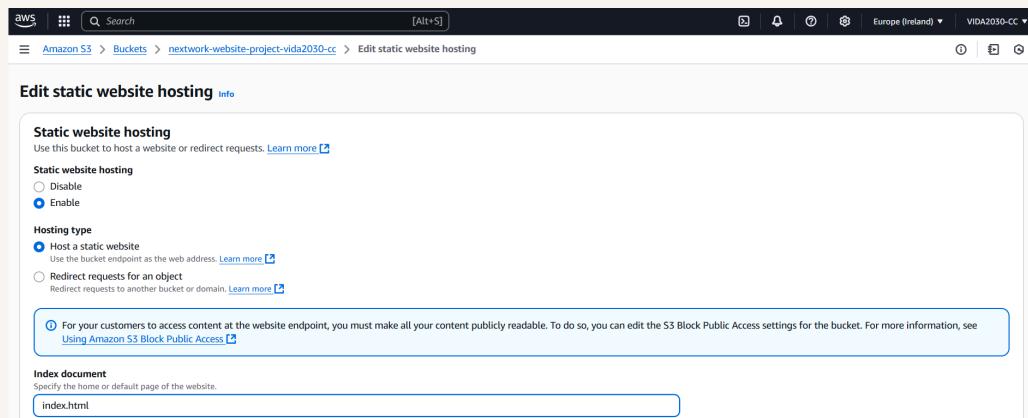


# Static Website Hosting on S3

Website hosting means making a website public for everyone to see through web servers which use the files uploaded in the s3 bucket.

To enable website hosting with my S3 bucket had to enable static website hosting in the property settings of the bucket.

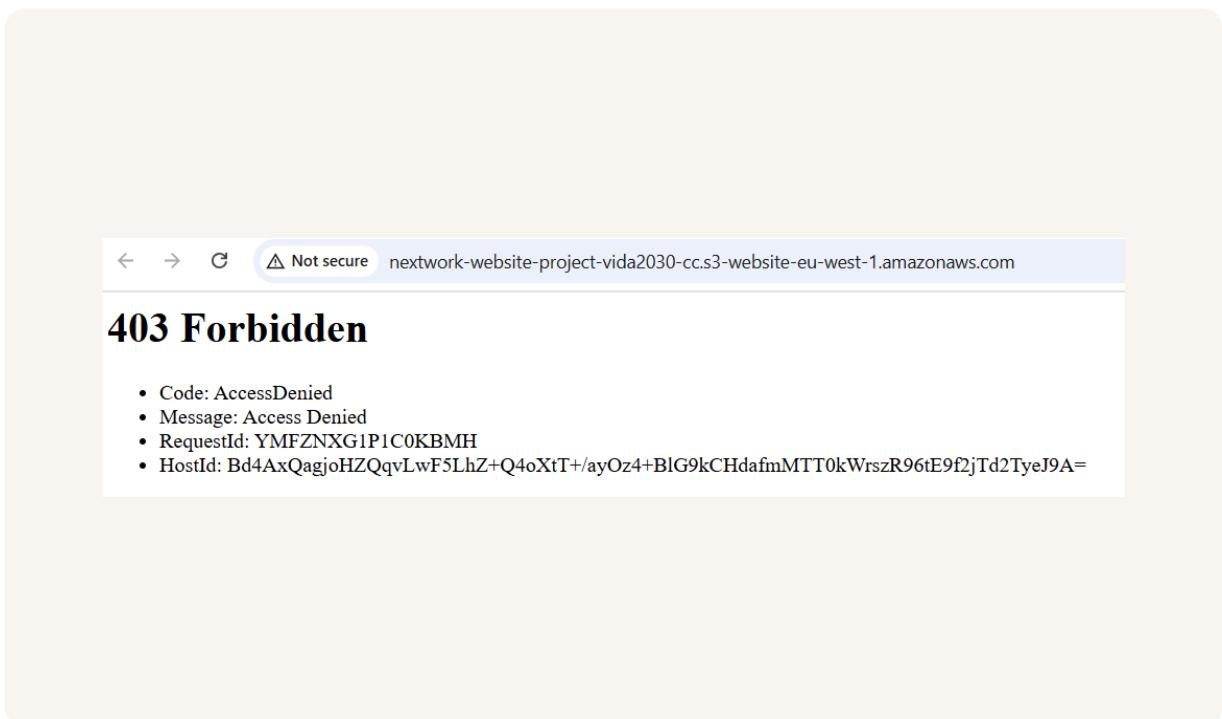
An ACL is an Access Control List and its function is to control access to the objects in the bucket. I can control who can access the objects in the bucket and interact with them.



# Bucket Endpoints

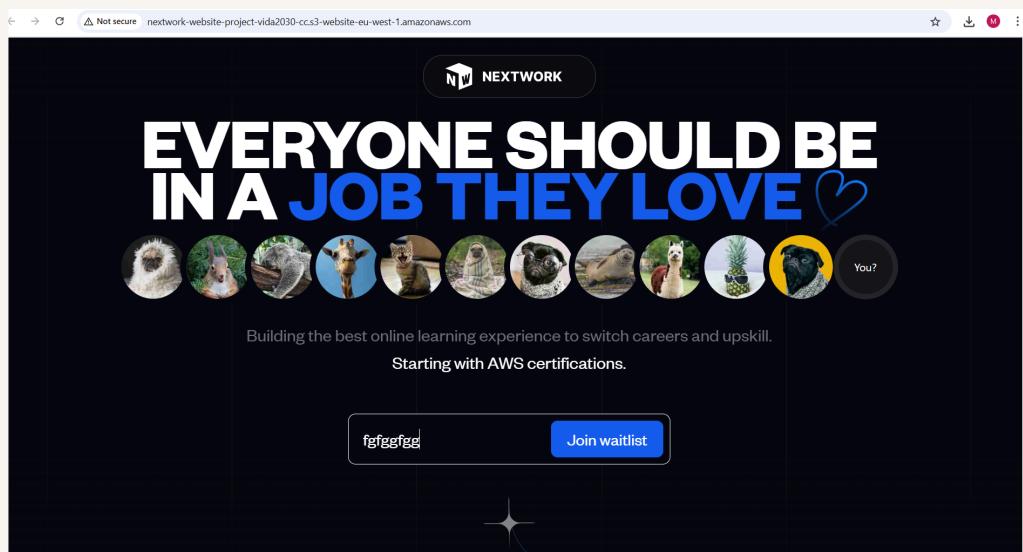
Once static website is enabled, S3 produces a bucket endpoint URL, which is just a normal regular URL link that people can click to view the website which I have just hosted.

When I first visited the bucket endpoint URL, I saw a 403 forbidden error message. The reason for this error was because the static website was hosted for everyone to be able to see but the actual contents of the bucket were private by default.



# Success!

To resolve this 403 Forbidden error, I went back to the files in the S3 and i made them public with the ACL as well so that tey can be shown on the website I just hosted. The error was because I did not make the files public using the ACLwe enabled.





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