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Host a Website on Amazon S3

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The screenshot shows a web browser window with the URL nextwork-website-project-bridge-nikoale.s3-website.us-west-1.amazonaws.com. The page features a dark background with a prominent banner in the center. The banner contains the text "EVERYONE SHOULD BE IN A JOB THEY LOVE" in large, bold, white and blue letters, followed by a blue heart icon. Below the banner is a horizontal row of twelve circular profile pictures of various animals. Underneath the banner, the text "Building the best online learning experience to switch careers and upskill." is displayed, followed by "Starting with AWS certifications." At the bottom of the banner is a form with a text input field labeled "Enter your email" and a blue button labeled "Join waitlist". The overall design is clean and professional, utilizing a sans-serif font.

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Introducing Today's Project!

In this project, I will be using Amazon's S3(Amazon Simple Storage Service) to host a website. Using Amazon's S3 will allow me to store and retrieve any amount of data at any time from anywhere on the web.I will be creating a S3 bucket to demonstrate

Tools and concepts

Services I used were how to create a S3 bucket,this will host my website and I can be able to store and retrieve any amount of data within the web,the key concepts I learnt was ACL within object ownership

Project reflection

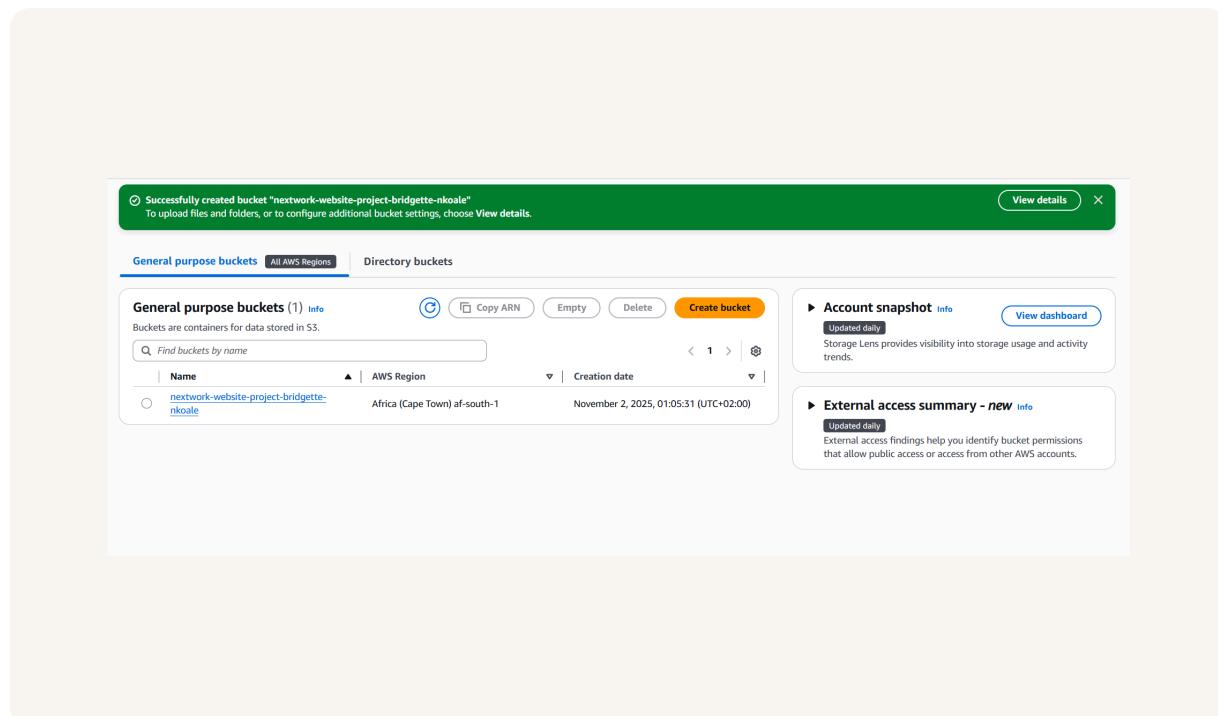
This project took me approximately a day as I encountered a 404 error which made me to go back and see which steps i missed

How I Set Up an S3 Bucket

Creating an S3 bucket took me took me about 15 minutes as I am following step by step but if I wasnt I would have taken me less than 10 minutes

The Region I picked for my S3 bucket was Africa Cape Town af-south-1, because it is the closet to me as I am in South Africa. This will reduce latency and costs.

S3 bucket names are globally unique! This means that An S3 bucket name must be globally unique across all AWS accounts to ensure that each bucket can be uniquely identified and accessed.

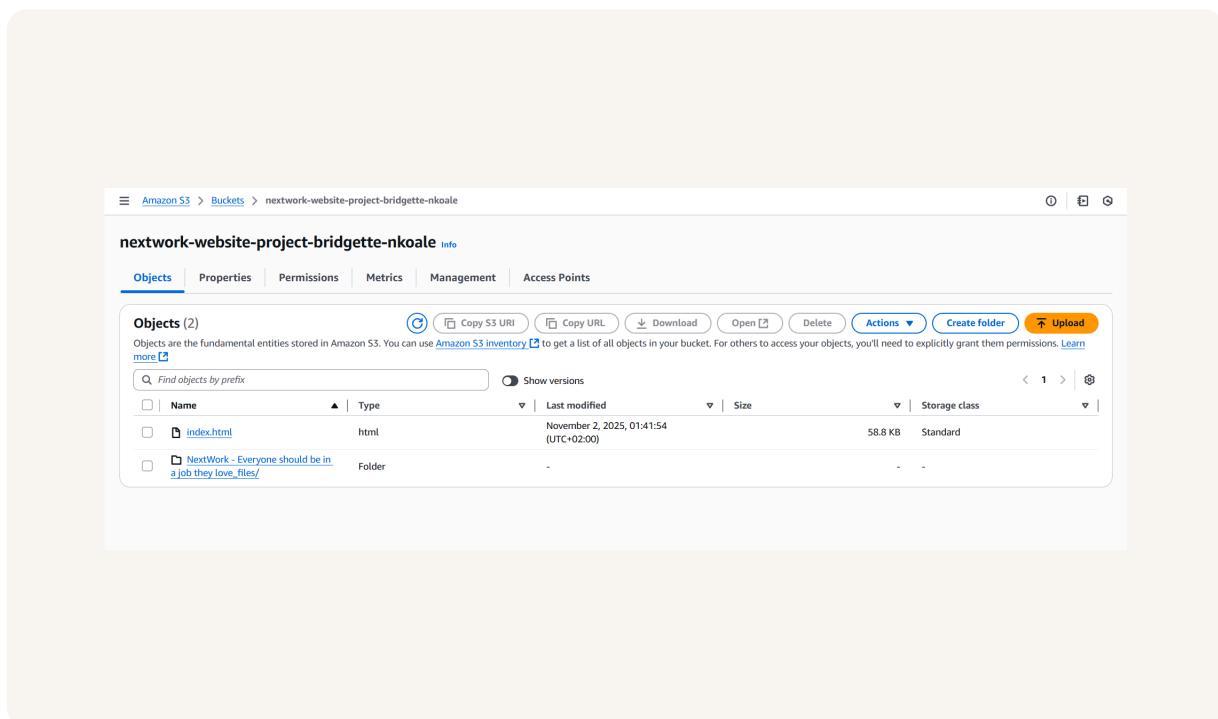


Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were index.html file that mainly used to create and design web pages. I also uploaded a folder that renders/has ours images

Both files are necessary for this project as they compliment each other to make sure that the entire website is complete, the buttons are there, the images are placed at the right place.



Static Website Hosting on S3

Website hosting means making your website to be public on the internet.

It involves configuring the S3 bucket to serve static website content. In simple terms, we're saying "hey, so we have this website that's sitting and we want the world to see it, by creating a URL that will take anyone to a page that displays the HTML file".

An ACL is a set of rules that decides who has permissions to access to a resource. Yes I enabled it, this makes me to have full control on who can access it and do things with the objects that I would have uploaded in my bucket.

The screenshot shows the 'Static website hosting' configuration page for an S3 bucket. It includes fields for enabling hosting, choosing a hosting type (Host a static website), specifying an index document (index.html), and an optional error document (error.html). A note about making content publicly readable is also present.

Static website hosting
Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting
 Disable
 Enable

Hosting type
 Host a static website
Use the bucket endpoint as the web address. [Learn more](#)
 Redirect requests for an object
Redirect requests to another bucket or domain. [Learn more](#)

ⓘ For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#).

Index document
Specify the home or default page of the website.
index.html

Error document - optional
This is returned when an error occurs.
error.html

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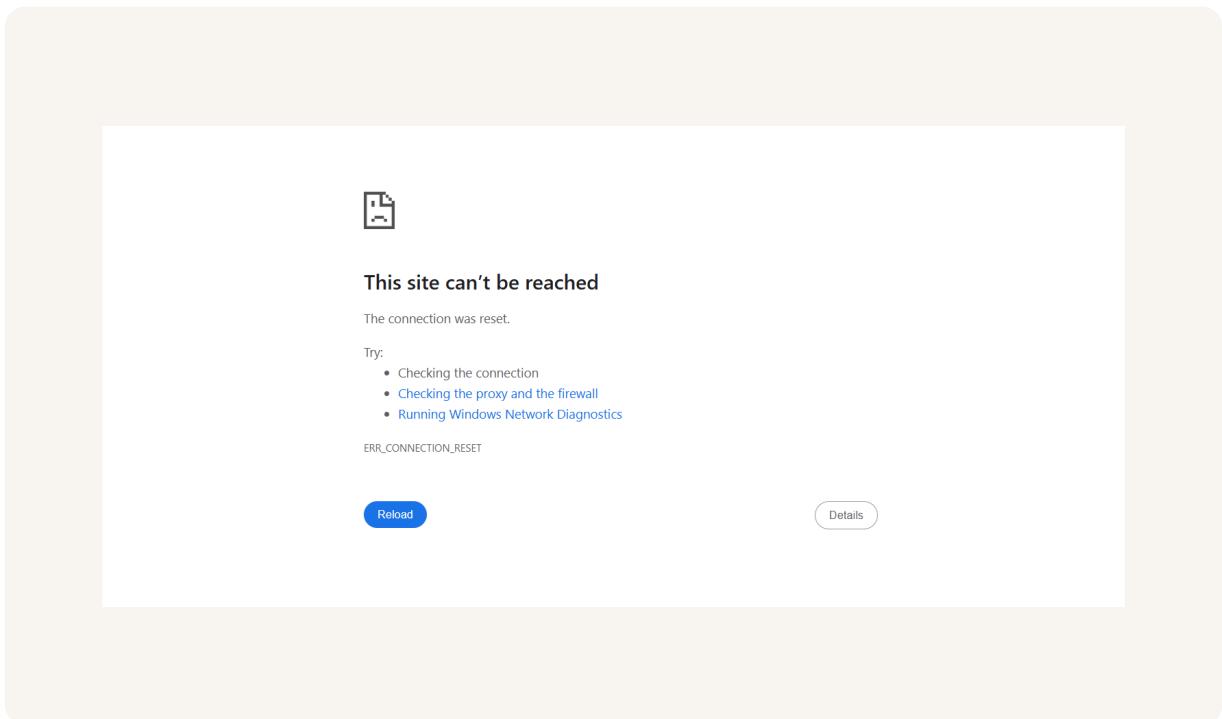
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Bucket Endpoints

It is a bucket website endpoint is just like a regular website URL. It lets people visit your S3 bucket's files as a website.

An error message telling me that my static website is being hosted by S3, but the actual HTML/image files I've uploaded are still private. It's kind of like having a bucket on display



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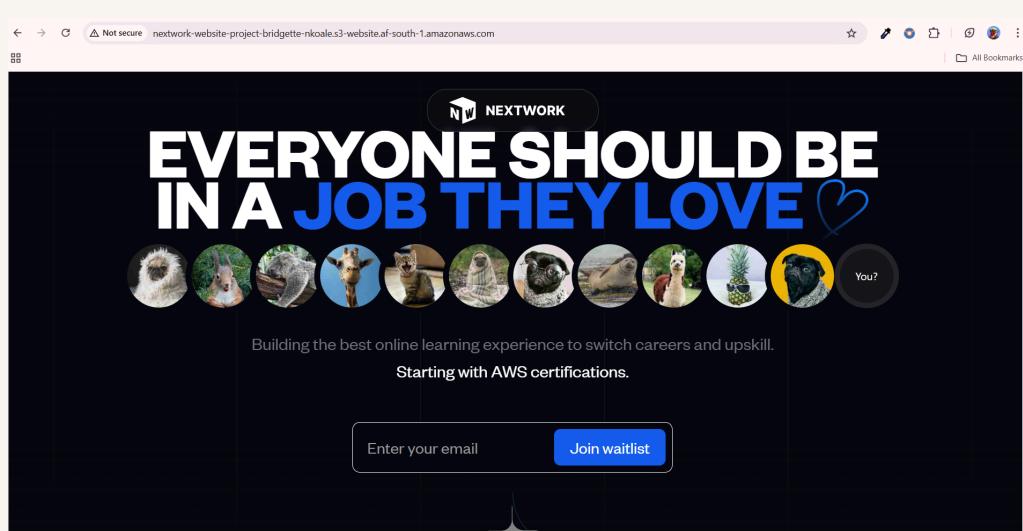
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Success!

To resolve this 403 error, at first I went back to track exactly what steps did I miss and when I couldn't find it I took a short nap and with that nap it made me realise exactly where I messed up, I didn't make my folder to be public by using ACL





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