

HOW I HOSTED A STATIC WEBSITE

ON AMAZON S3

EVERYONE SHOULD
BE IN A **JOB THEY**
LOVE 



Building the best online learning experience to switch careers and upskill.
Starting with AWS certifications.

Enter your email

Join waitlist



Brian Gathuita

 <https://github.com/brayan2>

WHAT IS AMAZON S3?

What it does:

- Amazon S3 serves as a cloud storage service. It stores and retrieves data and objects securely.

Why it's useful:

- It offers highly scalable and durable storage infrastructure to store, manage, and distribute data efficiently.

How I'm using it in today's project:

- In this project, I'm using Amazon S3 to host a static website.

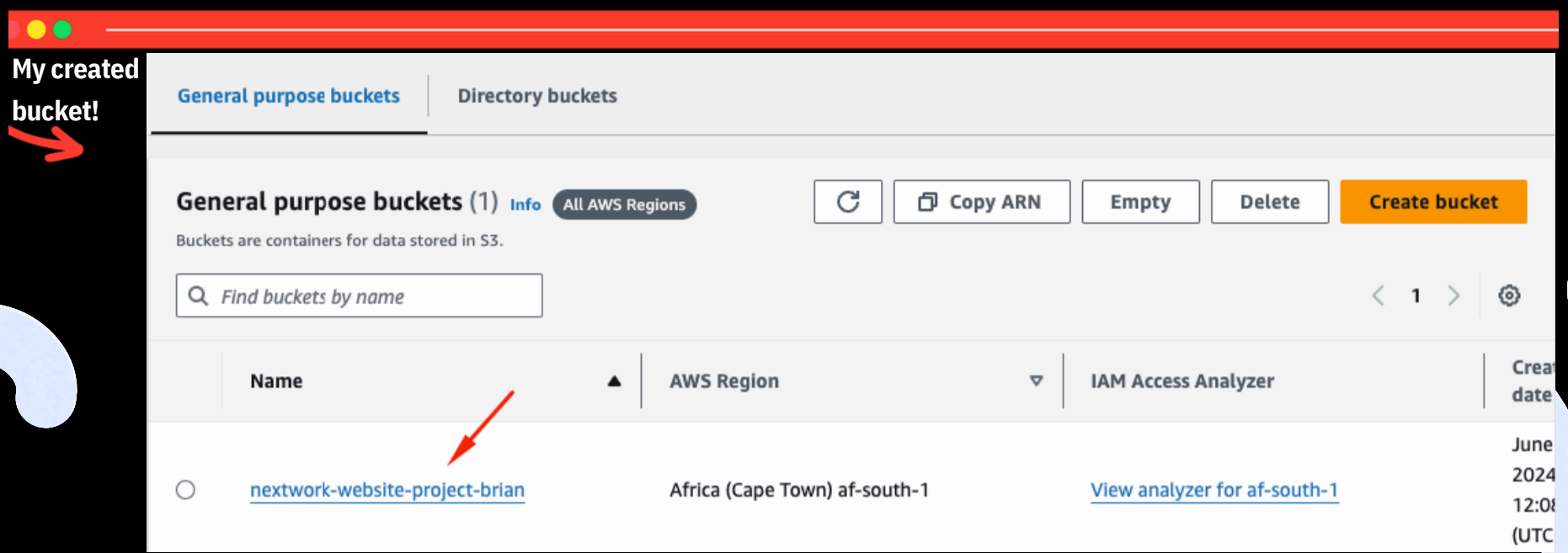


Brian Gathuita

 <https://github.com/brayan2>

CREATE AN S3 BUCKET

- Creating an Amazon S3 bucket took me 3 minutes.
- Some of the configuration steps include:
 - Bucket's Region: The Region in AWS designates the location of your S3 bucket, chosen for its proximity to users or applications. I selected the Africa (Cape Town) af-south-1 Region for my S3 bucket, since I'm based in Kenya.
 - Access Control Lists: ACLs regulate access to objects in your S3 bucket by specifying permissions for AWS accounts or users. I configured ACLs for my S3 bucket to restrict access to authorized entities only.
 - Bucket Versioning: I enabled bucket versioning to keep multiple versions of an object in the same bucket.
 - Public Access: For Public Access settings, I cleared the checkbox for "Block all public access" in the Block Public Access settings for the bucket.
- S3 bucket names have to be globally unique, which means no other AWS accounts in the entire world can use your bucket's name unless you delete the bucket.



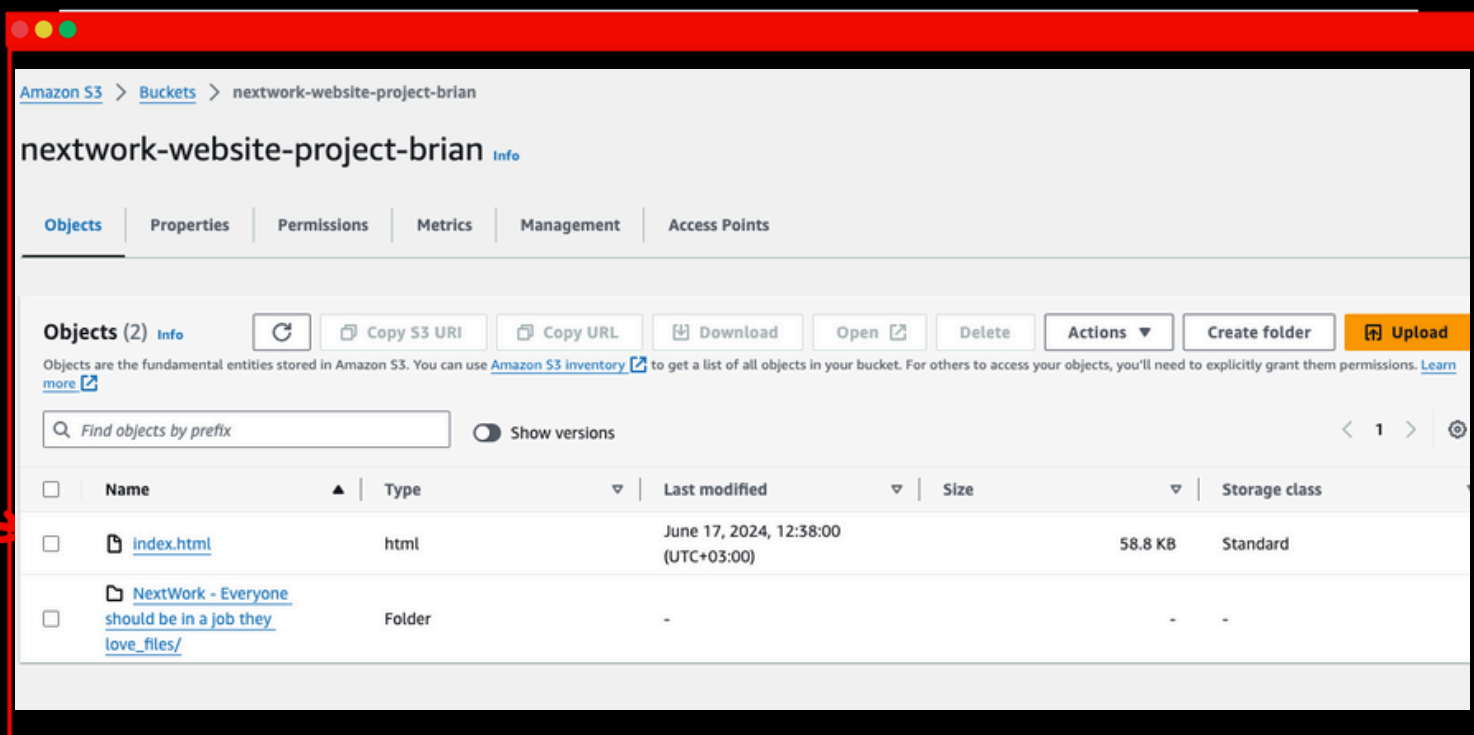
Brian Gathuita

<https://github.com/brayan2>

UPLOAD WEBSITE CONTENT TO S3

- Next, I uploaded my website's files into my S3 bucket.
- There were two files to upload: "index.html" and unzipped folder with the website's assets to my S3 bucket. These files work together: "index.html" is the main webpage, while the zip holds all needed resources like CSS and JavaScript for the full site display.

Objects
successfully
uploaded!



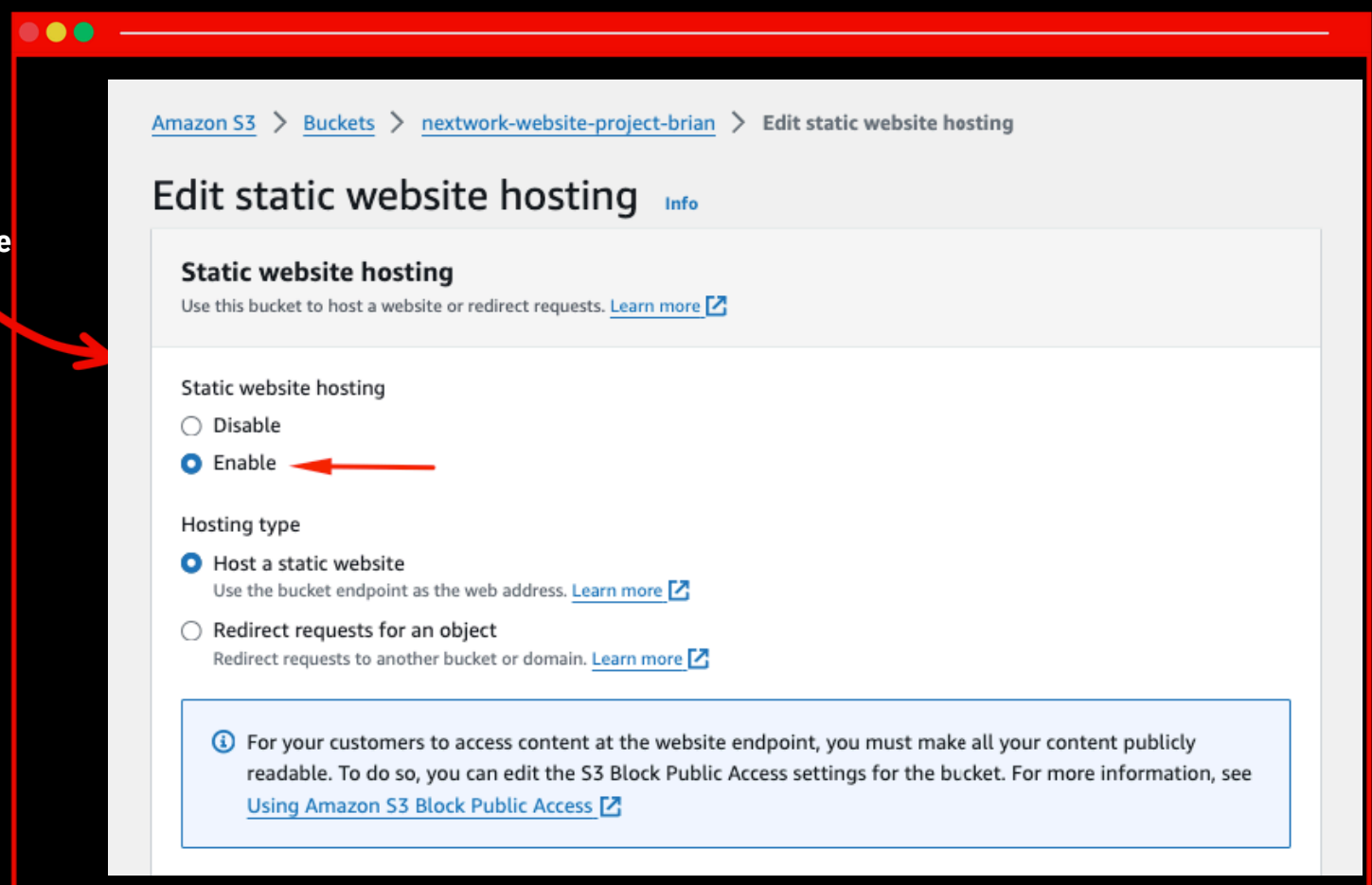
Brian Gathuita

<https://github.com/brayan2>

CONFIGURE STATIC WEBSITE HOSTING ON AMAZON S3

- Website hosting means storing your HTML file (and other files for your website) on a web server, so it's accessible online.
To enable website hosting, I chose Host a static website and entered
- index.html.
- Once static website is enabled, S3 produces a bucket endpoint URL. It serves as the address or pathway for accessing the content stored on the web server.

Setting up
static website
hosting



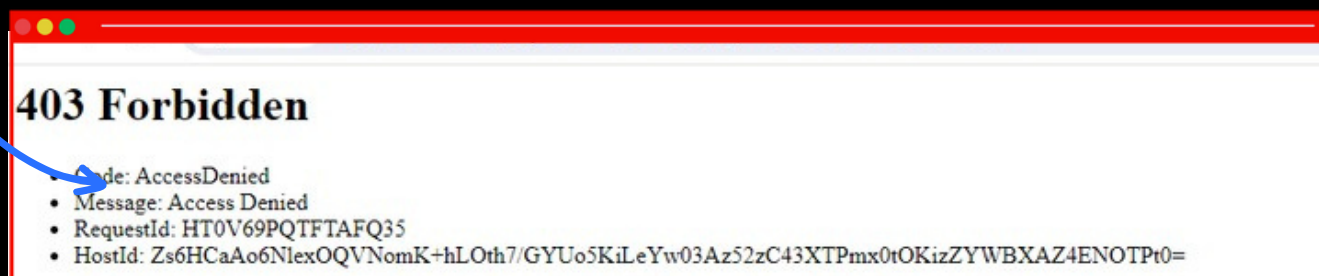
Brian Gathuita

 <https://github.com/brayan2>

AN ERROR!

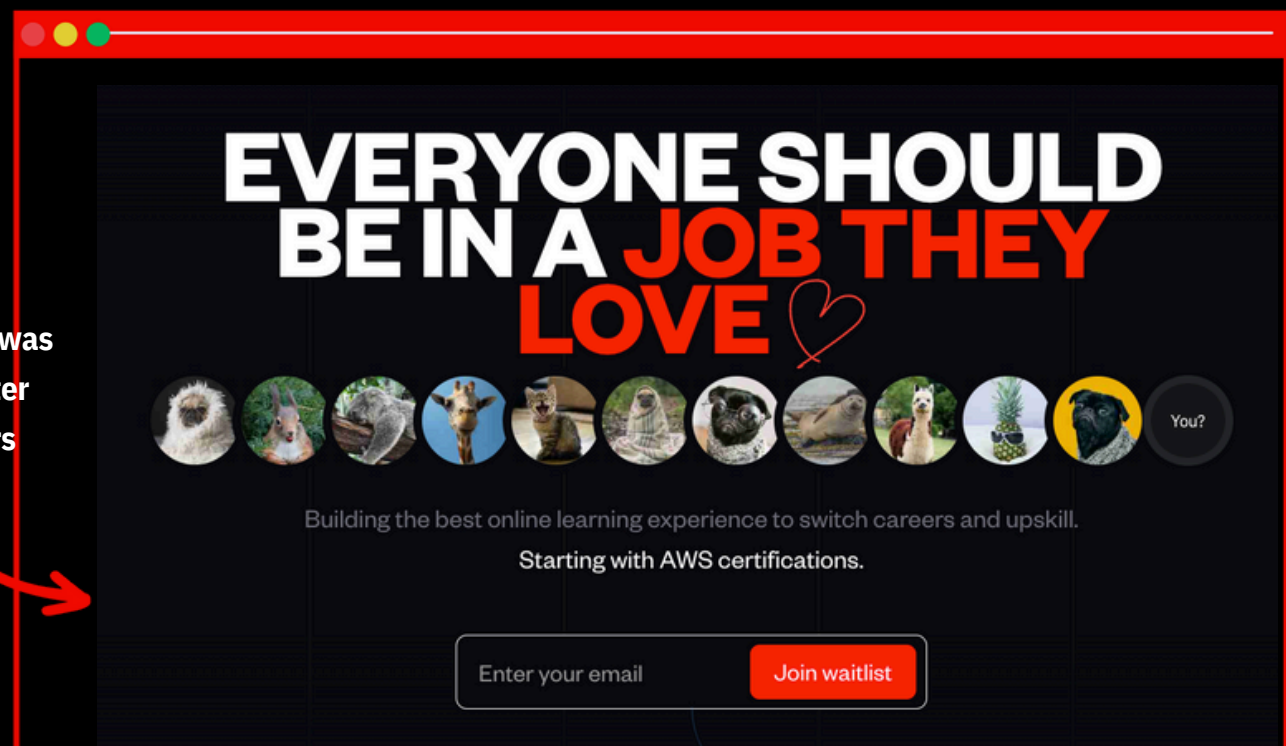
- When I visited the bucket endpoint URL, there was an Error.
- The reason for this error was because the objects (HTML and image files) uploaded to S3 are private by default for account security, resulting in the inability to access the static website hosted by S3.

The error



- To resolve this error, I set the permission of the objects to public.

Voila! My website was up and running after resolving the errors



Brian Gathuita

 <https://github.com/brayan2>



MY KEY LEARNINGS

01

What is Amazon S3?
A cloud storage service.

02

What does static website hosting mean?
To make my website accessible to the public

03

What were the settings you used to make your website available to the public? I adjusted access permissions to enable public access to the website's objects.

04

Why did your bucket endpoint URL still return an error? What will you need to do next time? The bucket URL returned an error because S3 objects default to private, restricting access to website content. Next time, I'll ensure to configure object permissions as public to avoid this issue.

05

Setting up website hosting on Amazon S3 makes deploying and managing websites easier because you don't need to deal with server setup and maintenance.



Brian Gathuita

 <https://github.com/brayan2>

FINAL THOUGHTS...

- This project took me 45 minutes.
- Deleted EVERYTHING at the end! Aiming to keep this project free :)
- In the next phase of this project, I'm excited to deepen my understanding of static websites by integrating Amazon Route 53 for domain management. Additionally, I plan to utilize AWS CloudFormation to automate the deployment process, enabling me to recreate my setup in seconds.



Brian Gathuita

 <https://github.com/brayan2>

Find this helpful?



Like this post



Leave a comment



Save for later



Let's connect!



Brian Gathuita



<https://github.com/brayan2>

Thanks NextWork for the
free project guide!



NEXTWORK