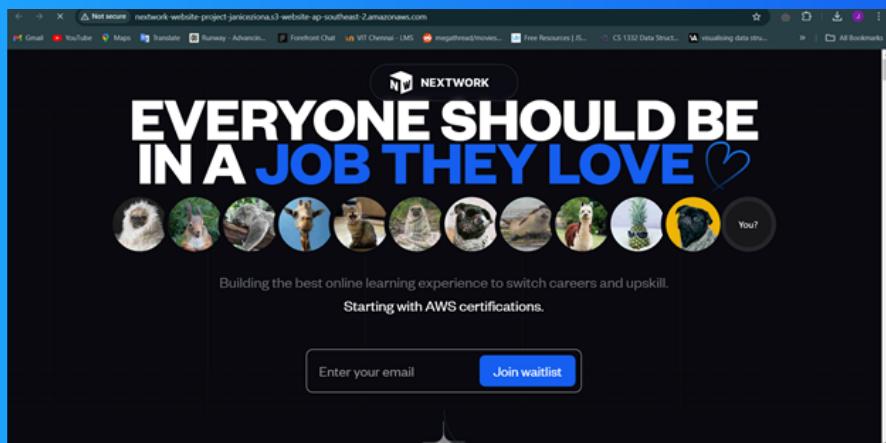




# Host a Website on Amazon S3



Janice Abraham



# Introducing Today's Project!

## What is Amazon S3

Amazon S3 (Simple Storage Service) is a cloud-based object storage service that allows you to store and retrieve any amount of data from anywhere on the web. It's highly scalable, reliable, and secure, offering features like versioning, encryption etc..

## How I used Amazon S3 in this project

I used Amazon S3 to host a Static website, that can be accessed anywhere in the internet.

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

To have good helping community, who help you immediately when any error is faced.

## This project took me...

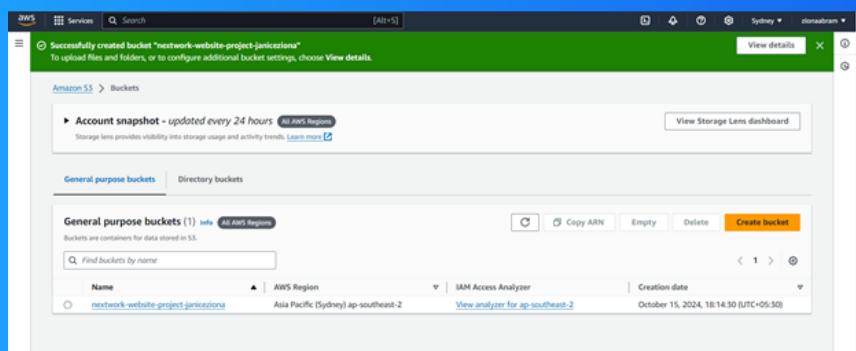
30 mins

# How I Set Up an S3 Bucket

Creating an S3 bucket took me about 2 mins

The Region I picked for my S3 bucket was asia-pacific sydney ,because it was the region that was closest to me

S3 bucket names are globally unique! This means, After you create a bucket, no other AWS account in the entire world can use your bucket's name unless you delete the bucket

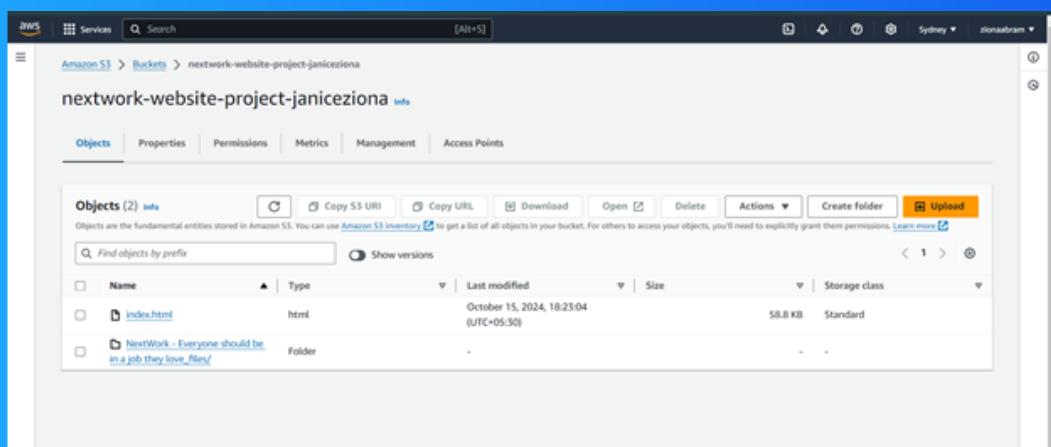


# Upload Website Files to S3

## index.html and image assets

I uploaded two files to my S3 bucket - they were the index.html file and the extracted Zip file of my entire website project that will be hosted.

Both files are necessary for this project as they are the ones that contain the content of the website that is going to be hosted in Amazon S3



# Static Website Hosting on S3

Website hosting makes your website public and available on the internet, as we know even though we create a html file in our local IDE, but its only available in our local system but not in the internet, by doing this we are configuring our S3 bucket

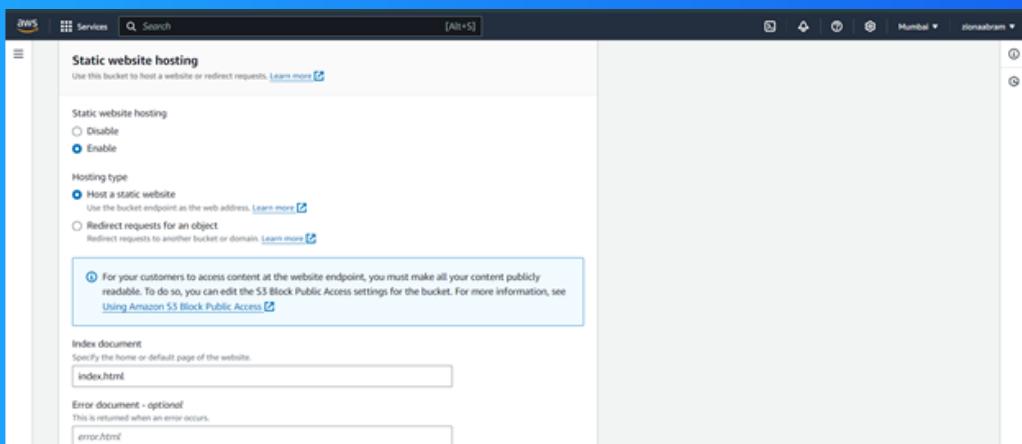
To enable website hosting with my S3 bucket, I go to the bucket's properties and enable static website hosting. I set the index document to "index.html" so that when someone visits my site, the "index.html" file is displayed.

## Access Control Lists (ACL)

An ACL is, a set of rules that decides who can get access to a resource, for my project I enabled my ACLs

# Bucket Endpoints

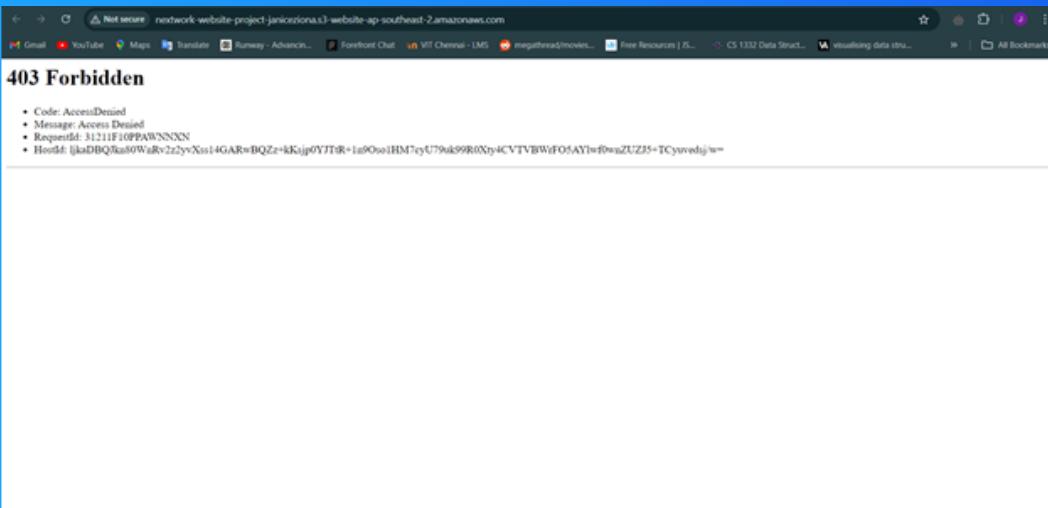
Once static website is enabled, S3 produces a bucket endpoint URL, which is:  
<http://nextwork-website-project-janiceziona.s3-website-ap-southeast-2.amazonaws.com>



# An error!

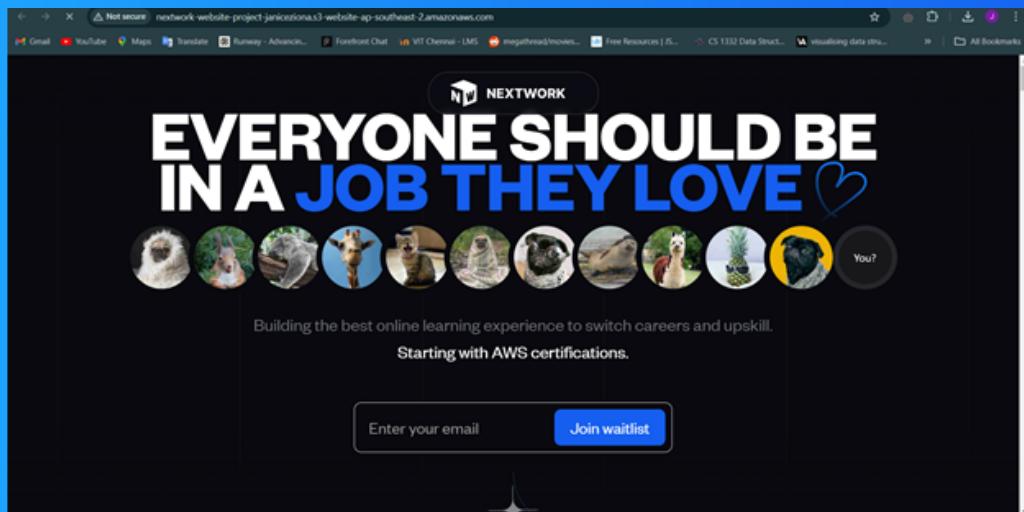
When I first visited the bucket endpoint URL, I saw the 403 forbidden error code, stating a message that the access is denied.

The reason for this error was, Objects in this case, the HTML and images files uploaded are private by default. The error message is telling that your static website is being hosted by S3, but the actual HTML/image files you've uploaded are private



# Success!

To resolve this connection error, I re-uploaded only the nextwork folder instead of the macOS file that was present, and enabled public access to folder before uploading in the S3 bucket, and then refreshed the site, Boom it worked!





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