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# Host a Website on Amazon S3



otite.timothy@yahoo.com

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# Introducing Today's Project!

## What is Amazon S3

S3 Simple, Store Solution enables object cloud storage enabling users to store and retrieve data from anywhere, at any time, and in any amount. It is useful as it is scalable providing durable storage and security.

## How I used Amazon S3 in this project

I used Amazon S3 to host a website storing the html.index and resource file within a bucket enabling html webpage hosting. This can be access through a Bucket Website endpoint which is provided through the enablement of Static website Hosting

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

I didn't expect this project to have been completed within the forecasted timeframe. I realised this was realistically achievable once the dependent resources were identified. In this case the requirement to only use S3.

## This project took me...

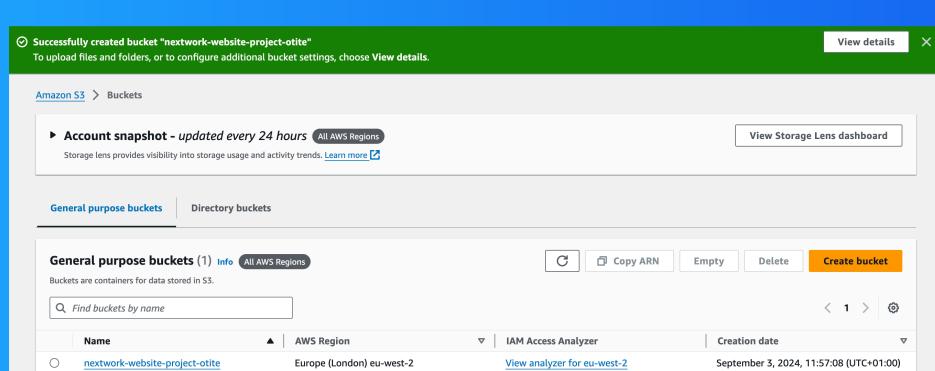
This project took me 1 hours 30 minutes

# How I Set Up an S3 Bucket

Creating an S3 bucket took me 5 minutes to configure.

The Region I picked for my S3 bucket was the London eu-west-2 region because of its proximity because locally hosted and its service availability.

S3 bucket names are globally unique! This means that the chosen name must not be used by any other user who has created an AWS S3 bucket. After you create a bucket, no other AWS account in the entire world can share your bucket name

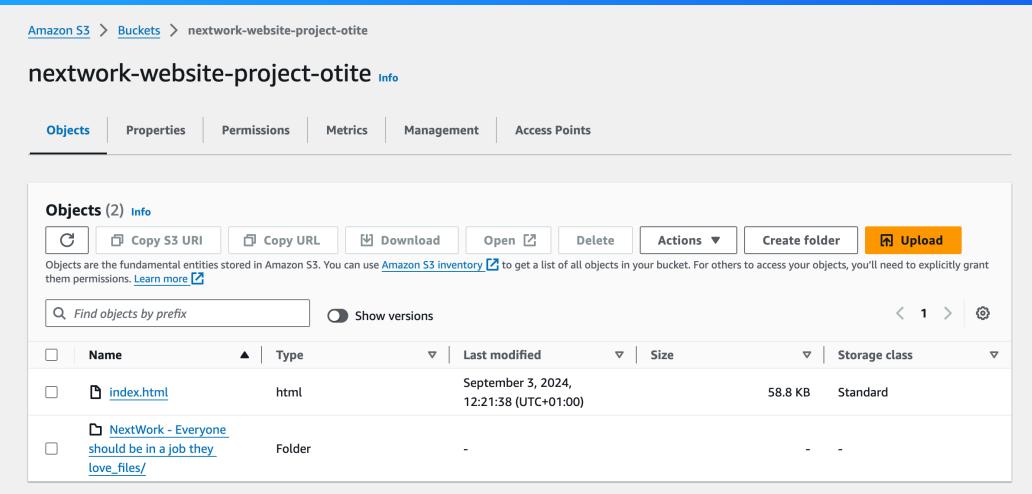


# Upload Website Files to S3

## index.html and image assets

I uploaded two files to my S3 bucket - they were the index.html file used to create and design web pages. I also uploaded the NextWork zip file containing JPG and SVG images contained within the S3 bucket

Both files are necessary for this project as they are the blueprint that shapes what will be displayed when the website is visible



# Static Website Hosting on S3

Website hosting means making the website public and displayable on the internet. Website hosting means storing your HTML file (and the other files for your website) on a web server, so it's accessible online.

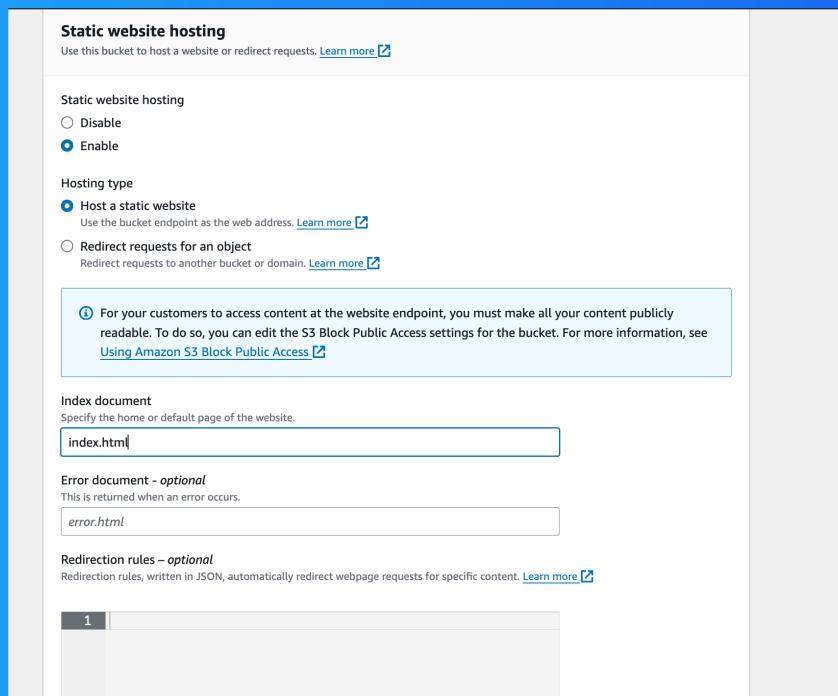
To enable website hosting with my S3 bucket, I configured my S3 bucket to enable static website hosting and specifying my index.html document as the page of the website.

## Access Control Lists (ACL)

An Access Control List is a set of rules which determine who can modify or edit objects within a bucket. It lets you control who can access and do things with the objects (i.e. website files) you upload into your bucket.

# Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is a web address that allows access to a website hosted on an Amazon S3 bucket.



# An error!

When I first visited the bucket endpoint URL, I saw a 403 Forbidden error message highlighted that access had been denied to the webpage

The reason for this error was because the HTML and images files uploaded are private by default. This default setting helps keep the account's data secure.

## 403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 8FXPQDB7VZ470W18
- HostId: joPt+f2lob6/TTPbfdfgkyXO/lzIJKc+xF5n5xLmJHQHN7a4CQTNWwPNxQrVSOTpPWebfZmmYU=

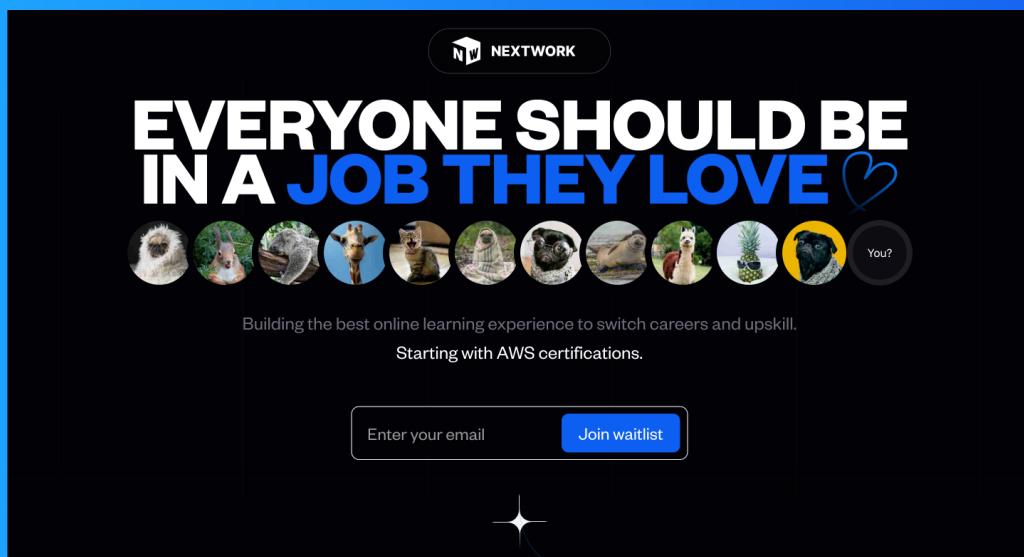
OT

otite.timothy@yahoo.com  
NextWork Student

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# Success!

To resolve this connection error, I made Access Control Lists public which enabled the display of the html webpage.





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