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# Host a Website on Amazon S3



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# Introducing Today's Project!

## What is Amazon S3

Amazon S3 is a useful service important for maintaining and hosting websites securely and globally.

## How I used Amazon S3 in this project

I utilized Amazon S3 to host my own website through their S3 service.

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

I do not expect the setup to be so quick and seamless.

## This project took me...

30 minutes

# How I Set Up an S3 Bucket

Creating an S3 bucket took me 5 minutes!

The Region I picked for my S3 bucket was Europe (Frankfurt) eu-central-1 because it was the closest to my home geographically.

S3 bucket names are globally unique! This means that every bucket in the world has a unique identity to one another

General purpose buckets (1) <a href="#">Info</a> <a href="#">All AWS Regions</a>			
Buckets are containers for data stored in S3.			
<input type="text"/> <a href="#">Find buckets by name</a>			
Name	AWS Region	IAM Access Analyzer	Creation date
<a href="#">nextwork-website-project-isaiahly</a>	Europe (Frankfurt) eu-central-1	<a href="#">View analyzer for eu-central-1</a>	November 3, 2024, 21:53:15 (UTC+01:00)

# Upload Website Files to S3

## index.html and image assets

I uploaded two files to my S3 bucket - they were an index.html and NextWork zip files

Both files are necessary for this project as the index.html contains the structure of website whilst the NextWork zip file contains the details such as images and videos.

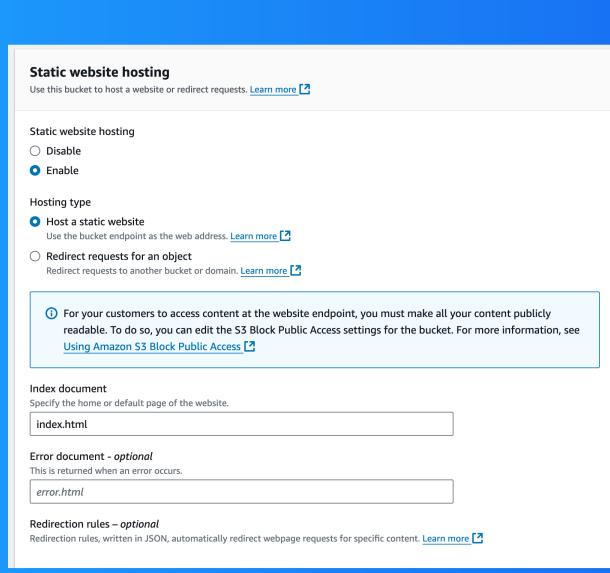
Objects (2) <a href="#">Info</a>						
		<a href="#">C</a>	<a href="#">Copy S3 URI</a>	<a href="#">Copy URL</a>	<a href="#">Download</a>	<a href="#">Open</a>
		<a href="#">Delete</a>	<a href="#">Actions ▾</a>		<a href="#">Create folder</a>	<a href="#">Upload</a>
Objects are fundamental entities stored in Amazon S3. You can use <a href="#">Amazon S3 inventory</a> to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. <a href="#">Learn more</a>						
Name	Type	Last modified	Size	Storage class		
<a href="#">index.html</a>	html	November 3, 2024, 21:56:44 (UTC+01:00)	58.8 KB	Standard	-	-
<a href="#">NextWork - Everyone should be in a job they love_files/</a>	Folder	-	-	-	-	-

# Static Website Hosting on S3

Website hosting means using a server such AWS to store your own website and then they will allow the website to be accessible throughout the globe or however you specific it to be accessed

To enable website hosting with my S3 bucket, I went the properties section of the S3 bucket, and found the option stating static website hosting and enable it after specifying an index document.

An ACL is a set of controls that manage the access and control of a bucket which is important if the bucket contains sensitive information, and therefore it is recommended to use ACLs. For my bucket I did not enable ACLs as my website will be public.



# Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is the way for the public and yourself to access the website through AWS web hosting services.

When I first visited the bucket endpoint URL, I saw 403 Forbidden Error. The reason for this error was due to a configuration error with ACLs as the bucket contents are hidden by default.

## 403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: X28B49S8FX4ESVBA
- HostId: q9/GH1fdyiFFmKs+pS6bxaSCCfHAR0XWanv8R5pvJBskSsq1aoDpv/0BG74cqSv7pqIteKuvENA=

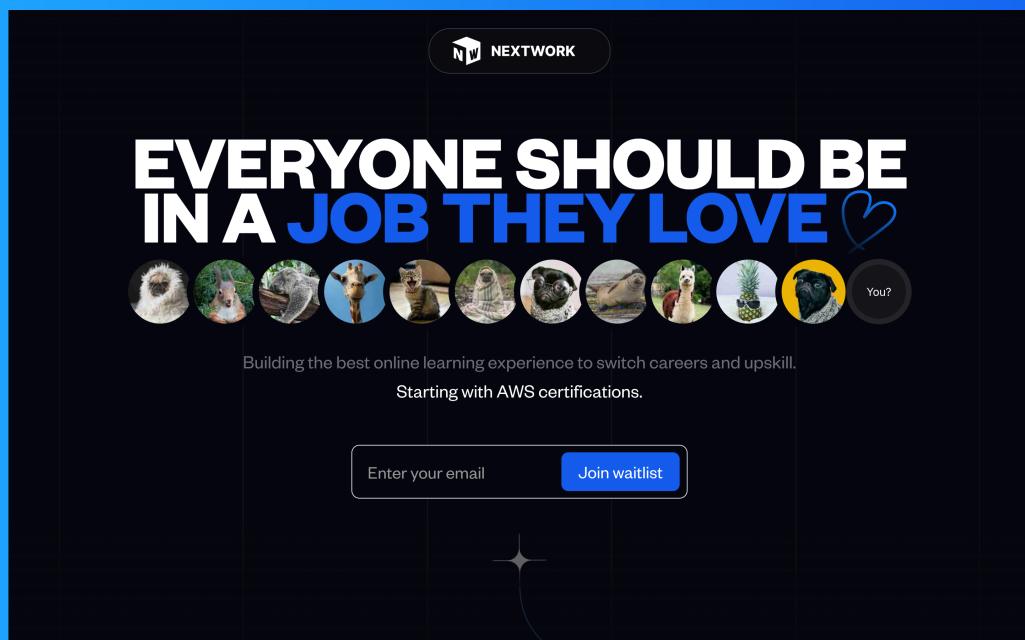
IM

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# Success!

To resolve this connection error, I turned off the Block all public access, and then selected the objects of the bucket and in the actions tab, selected 'Make public with ACL', that resolved the connection error.





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