Host a Website on Amazon S3

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Welcome to My Website

Hello, world!

This is my website hosted through AWS S3 static hosting.

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Introducing Today's Project!

In this project, I will demonstrate hosting a static website using an S3 bucket. I'm doing this project to learn how websites and objects can be stored in the cloud.

Tools and concepts

Services I used were Amazon S3. Key concepts I learnt include Bucket policies, uploading static website files, bucket endpoint URLs, and ACLs and how they control access to our bucket's objects.

Project reflection

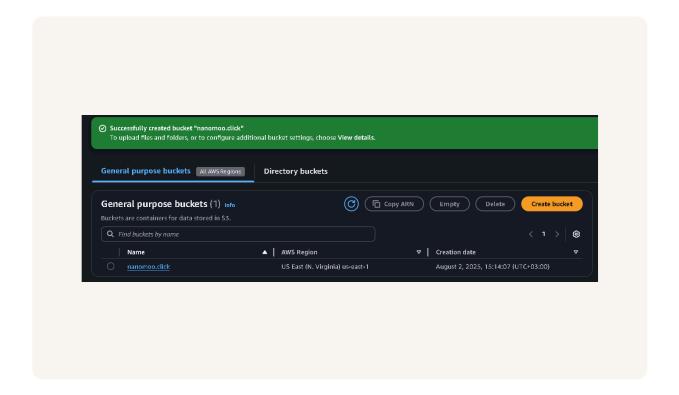
This project took me approximately 1 hour. The most challenging part was figuring out how to fix the error. It was most rewarding to see my website be public and see the issue be fixed.

How I Set Up an S3 Bucket

Creating an S3 bucket took me less than 5 minutes.

The Region I picked for my S3 bucket was North Virginia, because its the closest region to me.

S3 bucket names are globally unique! This means no 2 buckets in the entire world can have the same name. They have to be completley unique.

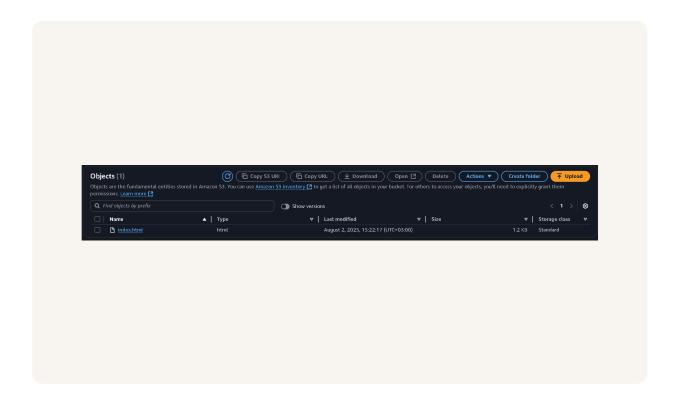


Upload Website Files to S3

index.html

I uploaded 1 file to my S3 bucket - it was the index.html file, this is the main structure of the website.

This file is necessary for this project as without the index.html file I wouldnt have the basic structure for my site.

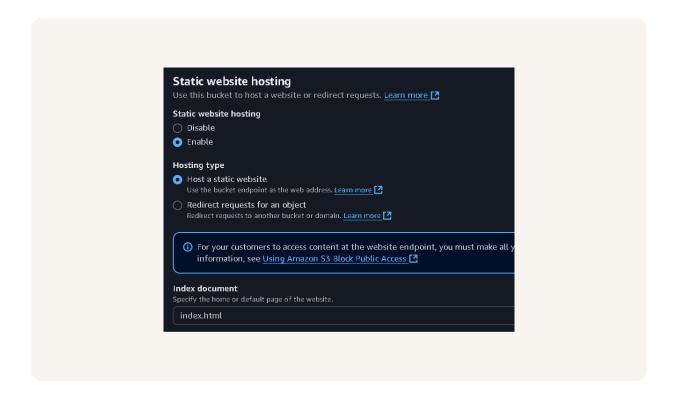


Static Website Hosting on S3

Website hosting means putting my website files on a web server.

To enable website hosting with my S3 bucket, I went into the properties tab on my bucket, enabled static website hosting, and I labeled "index.html" as my index document.

An ACL is a way to configure permission settings inside a bucket. I enabled ACLs so that I can control access to my website files later.



Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is a URL that takes you, and anyone on the internet, to the website that you're hosting.

When I first visited the bucket endpoint URL, I saw a 403 Forbidden error. The reason for this error was objects in a bucket are public by default, even though I have switched off "Block all public access" the files are still private.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 93D7G9R70KKVKT7H

Success!

To resolve this 403 Forbidden error, I went into the objects tab, clicked the check box next to my index file, then I went to the Actions dropdown menu, and I clicked "Make public usin ACL".

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