Host a Website on Amazon S3

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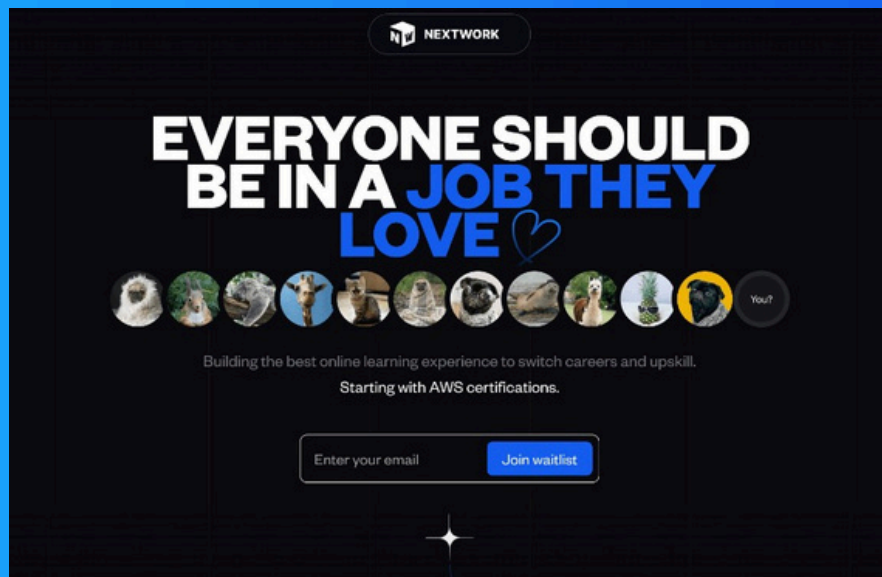
Introducing Today's Project!

What is Amazon S3

S3isa cloudstorage service where you can store and retrieve vertually any amount of data. It is scalable, durable, versitile, cost-effective & secure.

How I used Amazon S3 in this project

IusedS3inmyprojecttostoreallmyfilesforhostingmystatic website.

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

Ididn't expectto run intoany'error' messages,but I wasabletoidentifythe reason and revise my approach to ensure the correct outcome.

This project took me...
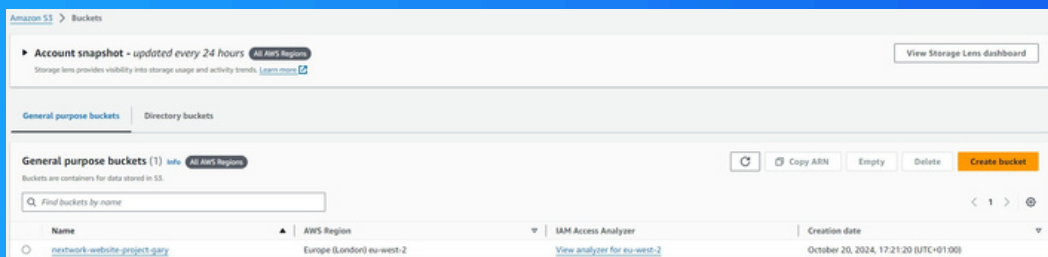
Thisprojecttookmeapproximately 1 hour.

How I Set Up an S3 Bucket

Creating an S3 bucket took me 2 minutes!

The Region I picked for my S3 bucket was London because I am in London. This aids in two aspects; it improves latency and minizes cost.

3 bucket names are globally unique! This means that there can never be another S3 bucket with the same name as yours.
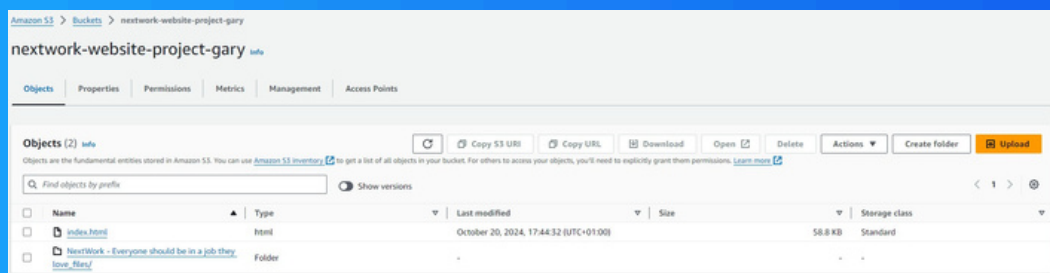
Upload Website Files to S3

index.html and image assets

'Iuploadedtwofilestomy53bucket - theywere an index.html file and a folder called NextWork.

The index.html file is used to create design web pages; it is essentailly instructions (blueprint) to tell my website where to display the images etc. The folder I uploaded contains all the content for the website itself.

Static Website Hosting on S3

Website hosting simply means making your website visible to the public; it 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 edited the properties of my S3 bucket to enable the hosting of static websites.

Access Control Lists ACL

An ACL is a set of rules that decides who can get access to a resource. Enabling ACLs in this S3 setup lets me control who can access and do things with the objects (i.e. website files) I uploaded into my bucket.

Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is a URL to get to the static website.

An error!

When I first visited the bucket endpoint URL, I saw a 403 Forbidden error message.

The reason for this error is we are being informed that the static website is being hosted on S3 but the content is still private.

Success!

To resolve this connection error, I had to granted public access to my objects using an ACL.