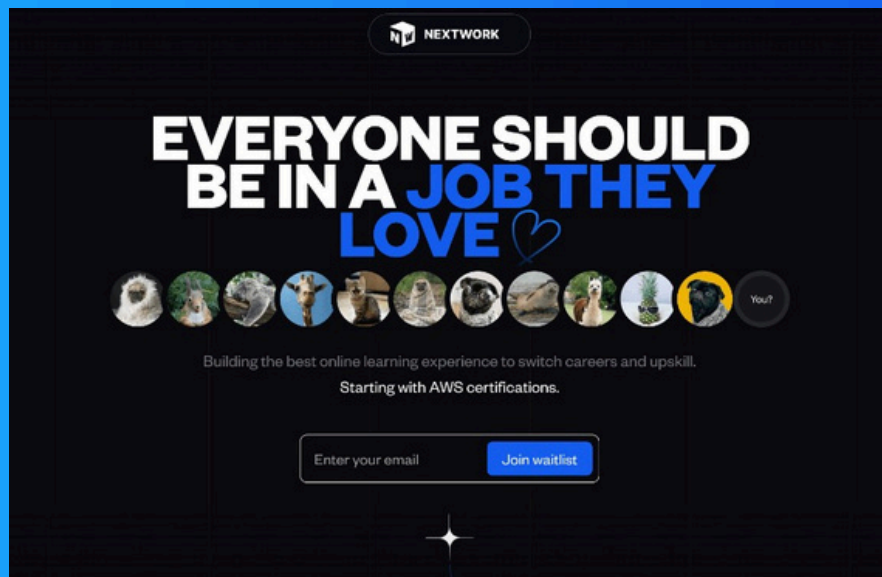




NextWork.org

Host a Website on Amazon S3





Introducing Today's Project!

What is Amazon S3

S3 is a cloud storage service where you can store and retrieve virtually any amount of data. It is scalable, durable, versatile, cost-effective & secure.

How I used Amazon S3 in this project

I used S3 in my project to store all my files for hosting my static website.

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

I didn't expect to run into any 'error' messages, but I was able to identify the reason and revise my approach to ensure the correct outcome.

This project took me...

This project took me approximately 1 hour.

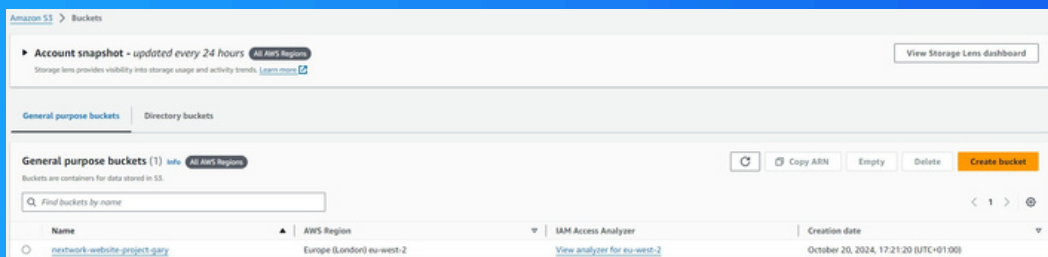


How I Set Up an S3 Bucket

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.



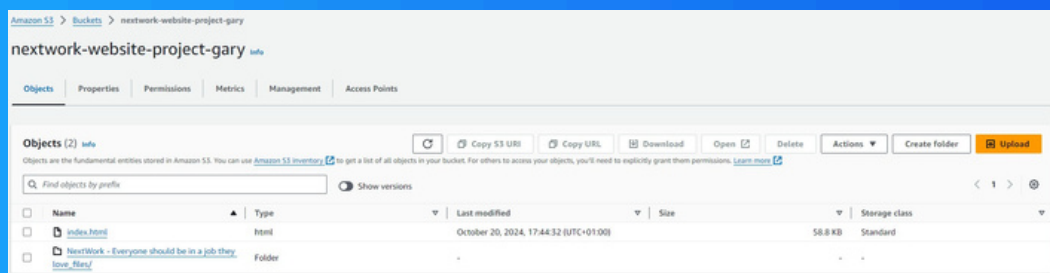


Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were an index.html file and a folder called NextWork.

The index.html file is used to create design web pages; it is essentially 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.

Amazon S3 > Buckets > nextwork-website-project-gary > Edit static website hosting

Edit static website hosting Info

Static website hosting
Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

☐ Disable

☒ Enable

Hosting type

☒ Host a static website
Use the bucket endpoint as the web address. [Learn more](#)

☐ Redirect requests for an object
Redirect requests to another bucket or domain. [Learn more](#)

i For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

Index document
Specify the home or default page of the website.

index.html



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.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 5DWJDC450VTR6ZZG
- HostId: vVKfarLtFBT+r72lvrkz7/k5vj9vKG3U6jJ8tT/u+NB1JkMhddz5yS376eQuP+Ou6VR+KeuvpZo=



Success!

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

