

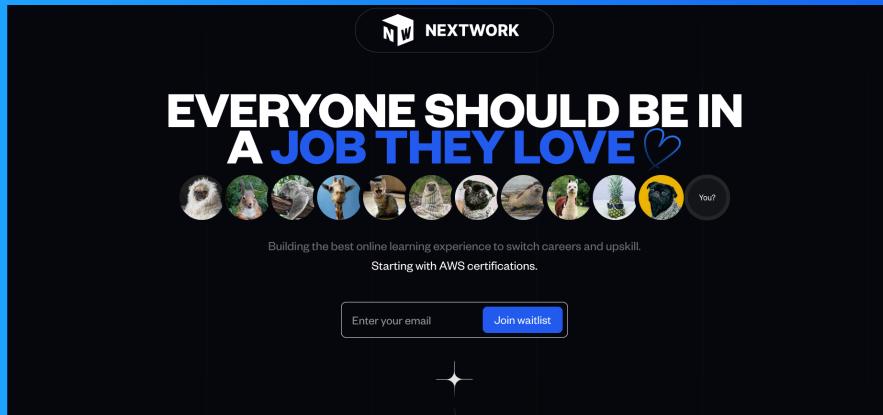


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Host a Website on Amazon S3



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Introducing Today's Project!

What is Amazon S3

Amazon S3 is a scalable cloud storage service for storing and retrieving data. It's useful for storing files, hosting websites, and backing up data, offering high availability, scalability, and easy integration with other AWS services.

How I used Amazon S3 in this project

I used Amazon S3 to host a website by creating a bucket, uploading an index.html file and supporting assets, and enabling static website hosting. This generated a unique endpoint URL, allowing users to access the site directly from S3

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

I didn't expect the instructions to be as detailed and concise as they were

This project took me...

About 45 mins



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How I Set Up an S3 Bucket

Creating an S3 bucket took me roughly 2 mins

The Region I selected for my S3 bucket was the Europe (London) eu-west-2 region as this region best describes my current location

S3 bucket names are globally unique! This means that each name must be distinct across all AWS accounts and regions. No two buckets can have the same name, ensuring there's no conflict when accessing or storing data worldwide.





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Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were the 1) index.html file and 2) NextWork - Everyone Should be in a job they love_files/ folder

Both files are necessary for this project as the index.html serves as the main entry point of the web app, while the folder contains supporting assets like images, styles, & scripts. They both ensure the site loads correctly & functions as intended

Objects (2) Info						
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more						
<input type="checkbox"/> Find objects by prefix		<input type="checkbox"/> Show versions				
<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class	Actions
<input type="checkbox"/>	index.html	html	October 17, 2024, 15:59:45 (UTC+01:00)	58.8 KB	Standard	Upload
<input type="checkbox"/>	NextWork - Everyone should be in a job they love_files/	Folder	-	-	-	Upload



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Static Website Hosting on S3

Website hosting means storing your html file (and other files from your website) on a web server so it's accessible online

To enable website hosting with my S3 bucket, I navigated to the bucket's page, selected the Properties tab, scrolled to Static website hosting, chose Edit, enabled hosting, selected Host a static website, and set index.html as the index document.

Access Control Lists (ACL)

An ACL(Access Control List) is a set of rules that divides who can access to a resource and in this setup I enabled the ACL. Enabling the ACL in the S3 setup lets you control who can access and do things with the objects (web files) you upload

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Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is a unique web address that allows users to access the hosted content directly from the S3 bucket. It follows the format `http://bucket-name.s3-website-region.amazonaws.com`.

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](#)

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.

Error document - optional
This is returned when an error occurs.

Redirection rules - optional
Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)



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An error!

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

The reason for this error was because the objects (HTML + images files uploaded) are private by default. This default setting helps keep your account's data secure. The error tells us the static website is being hosted by S3 but the files are private

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 1TWWV29CRCWJ02TQ
- HostId: GE/OIXypFvtlhLxVNjGxyyaUT95058mVVpmHQ66t41uEcuesEH0kwKZhm1Dw3DBZhDDKV+uQXUA=

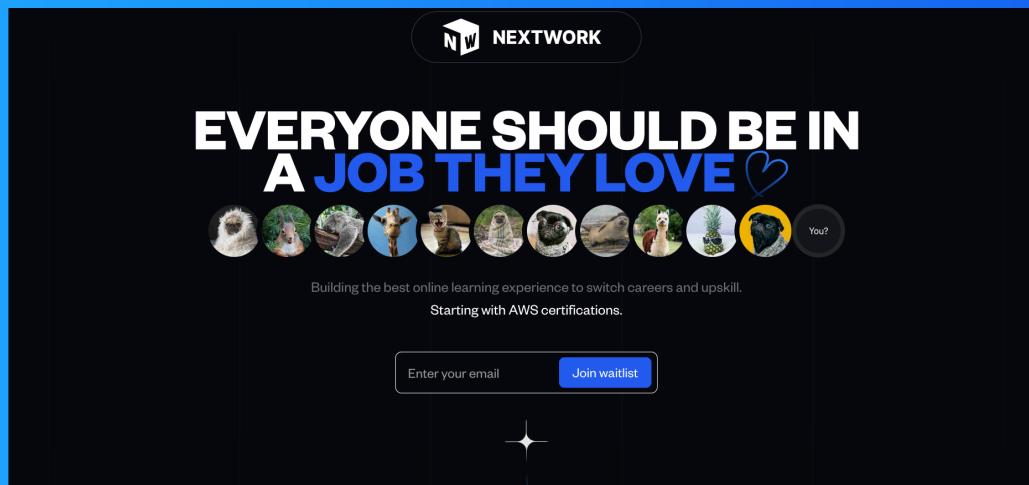


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Success!

To resolve this connection error, I had to make both the index.html file and the NetWork - Everyone should be in a job they love_files/ folder public using ACL - this way they can also be visible like the S3 bucket





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