



NextWork.org

Host a Website on Amazon S3



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NEXTWORK

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Introducing Today's Project!

What is Amazon S3

Amazon S3 stores and retrieves any amount of data from anywhere on the web at any time. It is useful because it's cost-effective, pay-as-you-go, and integrates with other AWS services, making it ideal for backups, media storage, and web applications.

How I used Amazon S3 in this project

I used Amazon S3 in today's project to host a website.

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

This project is quite short and straightforward, so one thing I didn't expect while working on this project is my website still giving me a 403 error even after making my objects public using ACL.

This project took me...

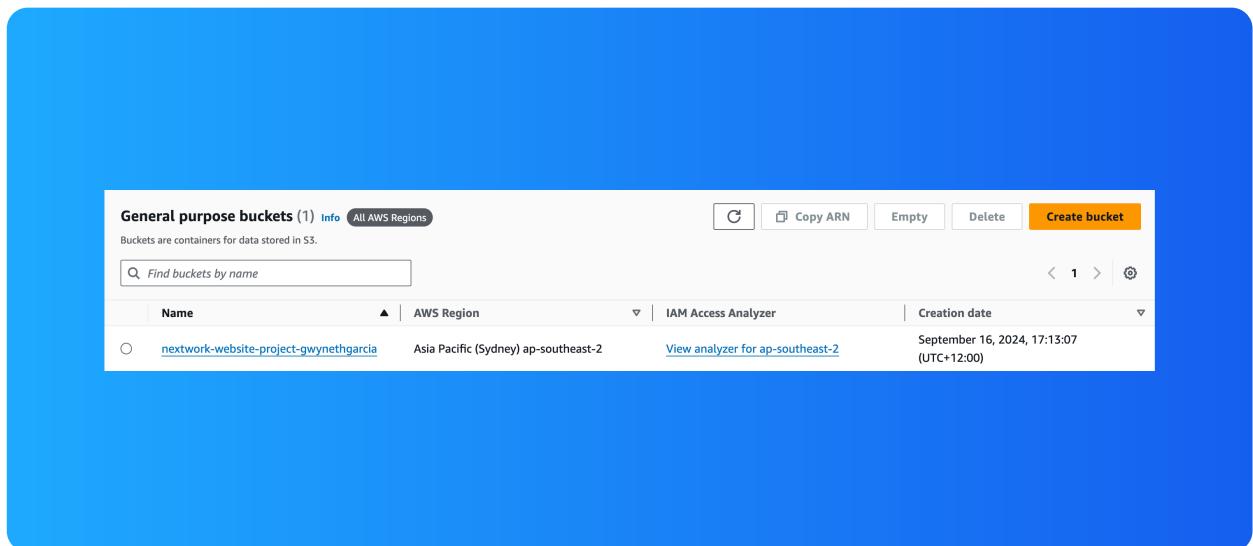
This project took me longer than I expected because of the 403 error I was getting. I did it all over again because I wasn't quite sure where I was making a mistake. My first attempt took me an hour, while my second attempt took me 15 minutes.

How I Set Up an S3 Bucket

Creating an S3 bucket took me 5 minutes.

The Region I picked for my S3 bucket was Asia Pacific (Sydney) ap-southeast-2 because it is closest to me.

S3 bucket names are globally unique! This means that no one can have the same bucket name as yours and no other AWS account in the entire world can use your bucket's name unless you delete the bucket.



Upload Website Files to S3

index.html and image assets

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

Both files are necessary for this project because I need to use HTML to create and design my web page, and I also need images/text/videos to add to my web page.

Objects (2) Info						
		C	Copy S3 URI	Copy URL	Download	Open
		Delete	Actions	Create folder	Upload	
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						
Name	Type	Last modified	Size	Storage class		
index.html	html	September 16, 2024, 17:27:17 (UTC+12:00)	58.8 KB	Standard	-	-
NextWork - Everyone should be in a job they love_files/	Folder	-	-	-	-	-



Static Website Hosting on S3

Website hosting is what makes your website public on the internet.

To enable website hosting with my S3 bucket, I went to the Properties tab on my bucket page and then edited the Static website hosting panel. I enabled Static web hosting and chose "Host a static website" as the hosting type.

Access Control Lists (ACL)

An ACL is a set of rules that decides who can get access to a resource. For this project, I enabled ACLs.

Bucket Endpoints

Once a static website is enabled, S3 produces a bucket endpoint URL, which is a URL that takes users to a page that displays the uploaded HTML file.

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](#)

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](#)



An error!

When I first visited the bucket endpoint URL, I saw an error message.

This error was because the files I uploaded were still private. (When files are uploaded, they are private by default)

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 3G688TPWCGAWBPCD
- HostId: dbFxezqCnDnO9IC2+2wey8MICKd4FPkKDZhjXbUbGr9NlaSw7QZA4cCFr7HEKDJxzQiV29/zEVbhkjwq/S5UGgt9boGYqyVvTHA1wrrFtIQ=



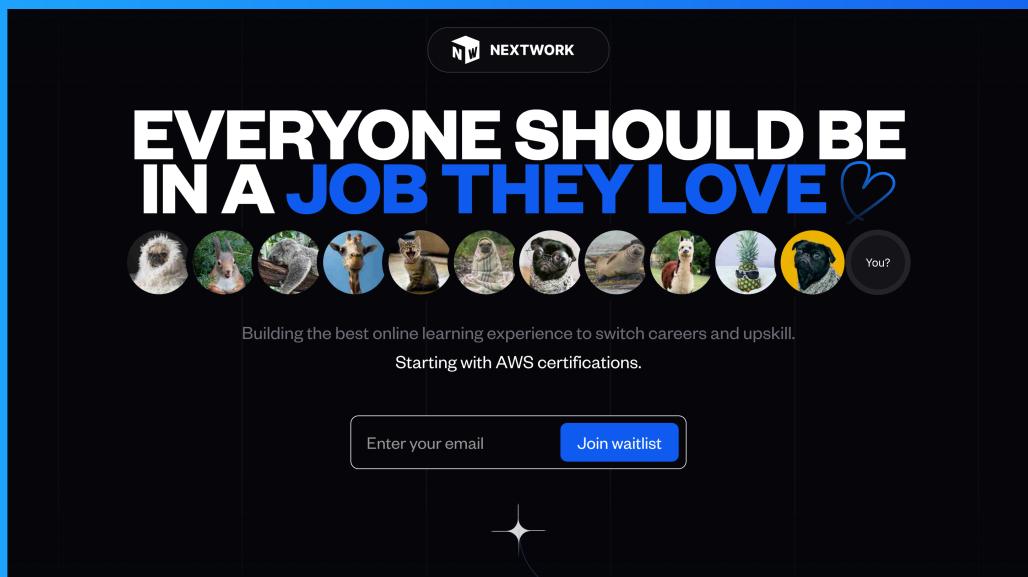
G

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Success!

To resolve this connection error, I made my Objects - index.html and folder, publicly accessible so users can view my website. I did this by selecting the objects and clicking the Actions dropdown, then clicking Make Public using ACL.





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