

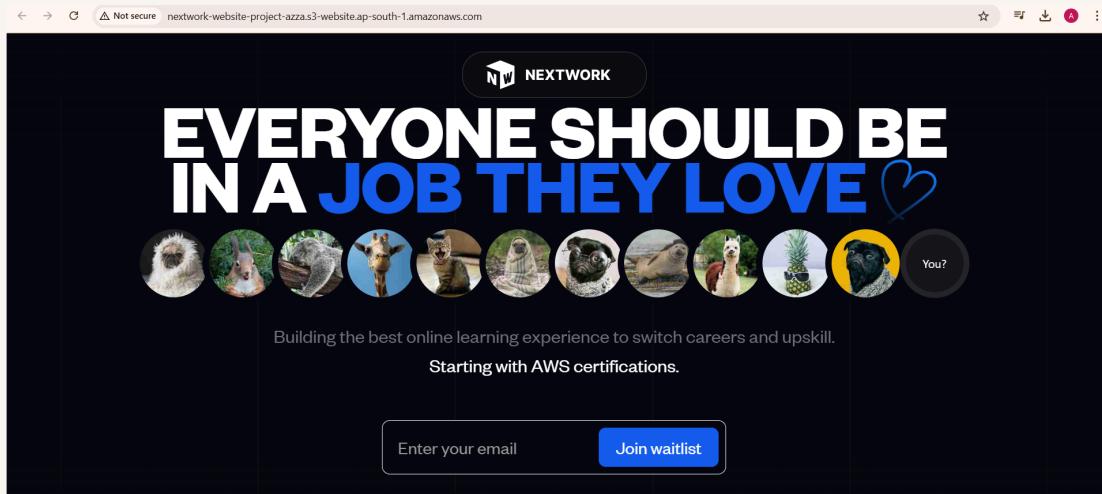


nextwork.org

Host a Website on Amazon S3

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Introducing Today's Project!

What is Amazon S3

Amazon S3 is a storage service to store and retrieve any amount of data at any time from anywhere on the web.

How I used Amazon S3 in this project

I created an S3 bucket which is an object that stores your files, and hosted a website by enabling static website hosting from the Properties tab of the S3 bucket and made all files public using ACL. In the end, a bucket website endpoint was created.

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

I didn't expect the fast storage capacity S3 bucket has because when I uploaded the files, it uploaded 44 files in just a few minutes and the convenience of easily hosting your website over the internet.

This project took me...

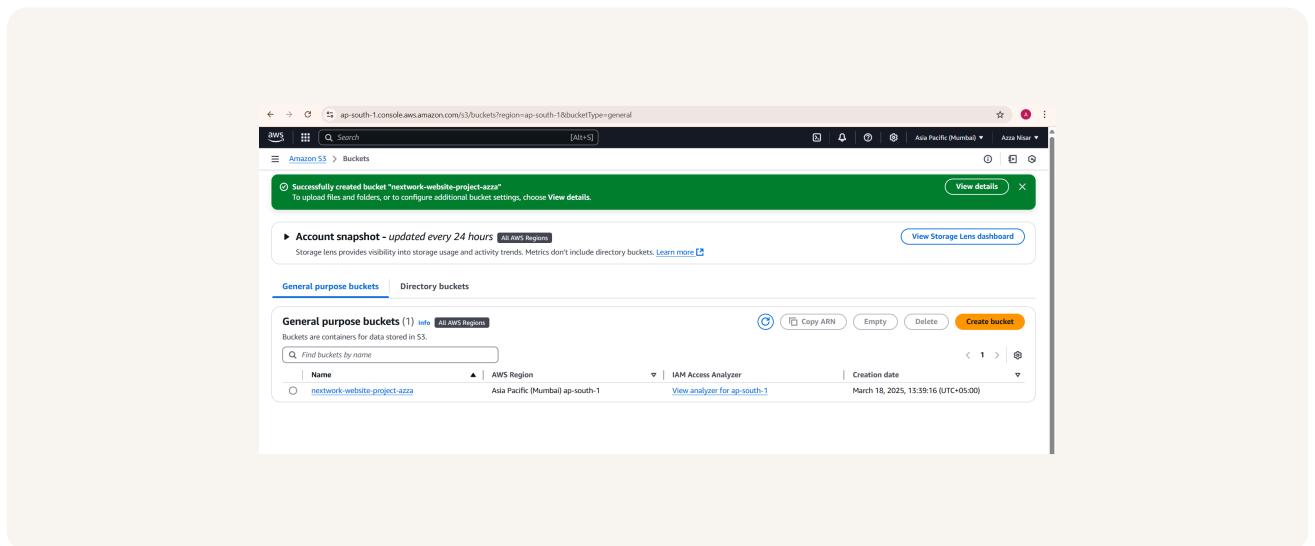
It took me around 20 minutes and would have been a lot faster but I was finding solutions to the error of downloading the correct index.html file.

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 Mumbai which is the closest AWS region to Pakistan where I am located, so it should give lower latency and better performance compared to regions farther away.

S3 bucket names are globally unique! This means that no other AWS account across all AWS accounts and regions. can use your bucket's name unless you delete that bucket.



Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were the index.html file and NextWork - Everyone should be in a job they love_files - unzipped folder.

Both files are necessary for this project as the HTML file is the main entry point for a website, while the unzipped folder contains the additional resources images, and fonts needed for the webpage to function correctly.



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nextwork-website-project-azza [Info](#)

[Objects](#) [Properties](#) [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

Objects (2)

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](#)

[Find objects by prefix](#) [Show versions](#)

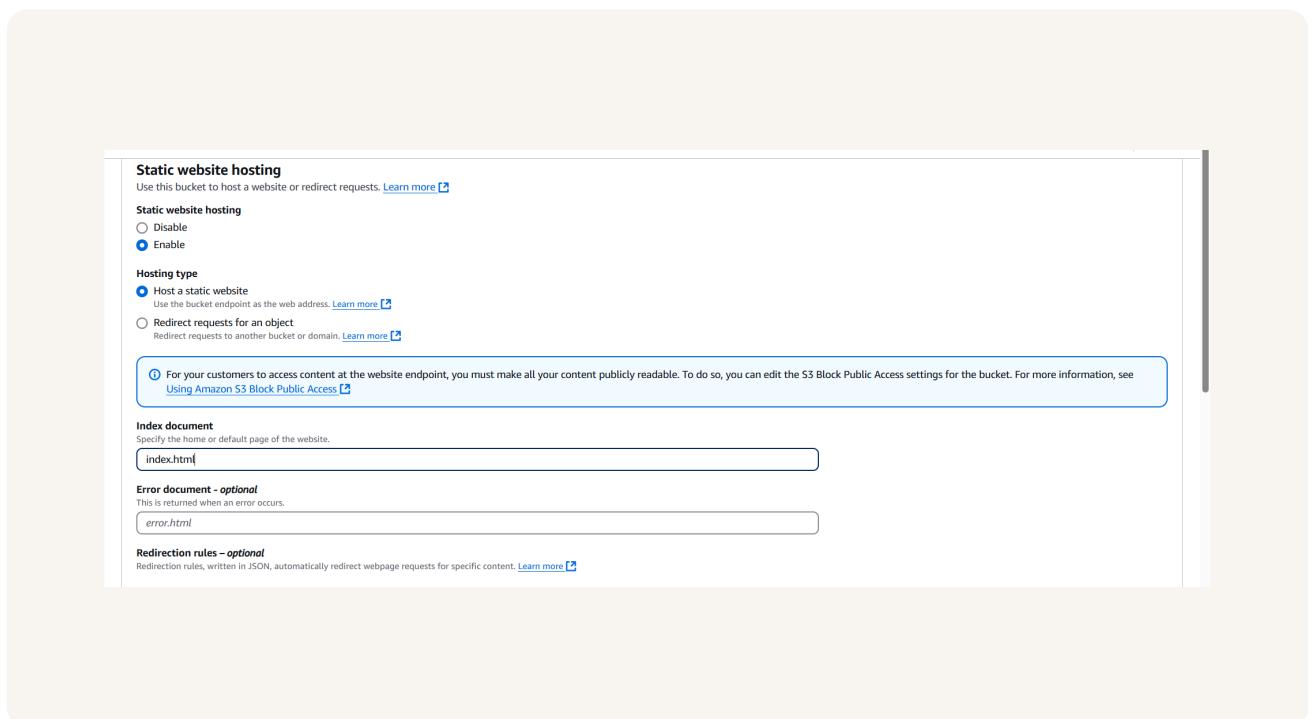
<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	index.html	html	March 18, 2025, 13:53:00 (UTC+05:00)	58.8 KB	Standard
<input type="checkbox"/>	NextWork - Everyone should be in a job they love_files/	Folder	-	-	-

Static Website Hosting on S3

Website hosting means making your website public on the internet. You store HTML file and other files for your website on a web server so it's accessible online.

To enable website hosting with my S3 bucket, I enabled the static website hosting option from the static website hosting panel in the Properties of the S3 bucket and entered the HTML File to host.

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



Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is like a regular website URL. It lets people visit your S3 bucket as a website.

When I first visited the bucket endpoint URL, I saw 404: Forbidden Error. The reason for this error was the HTML/image files are private by default. We have to make grant permissions to make them public which ACL will allow.

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← → ⌂ Not secure nextwork-website-project-azza.s3-website.ap-south-1.amazonaws.com

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 9FTE6FSV0DKKDZRT
- HostId: KCw8q5po9lxQZ9yFRmt4LOgMqwFY48G1F+NG53iAyvwgrTA5pINITrz/fAiBVUu4tfpathP0fQY=

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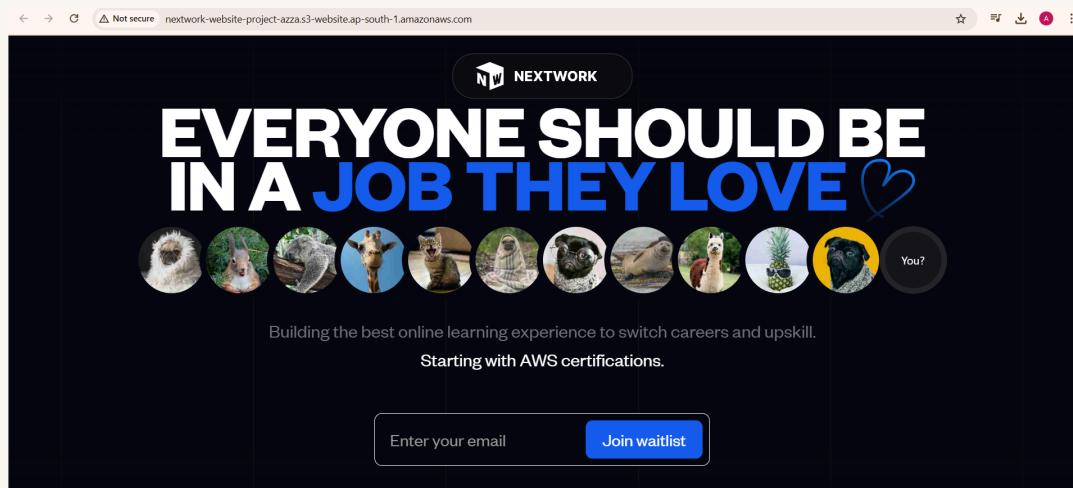
Success!

To resolve this connection error, I deleted the index file, redownloaded it and saved it in the parent unzipped folder and then uploaded the HTML File and images/fonts folder again, made them public with ACL again.

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