

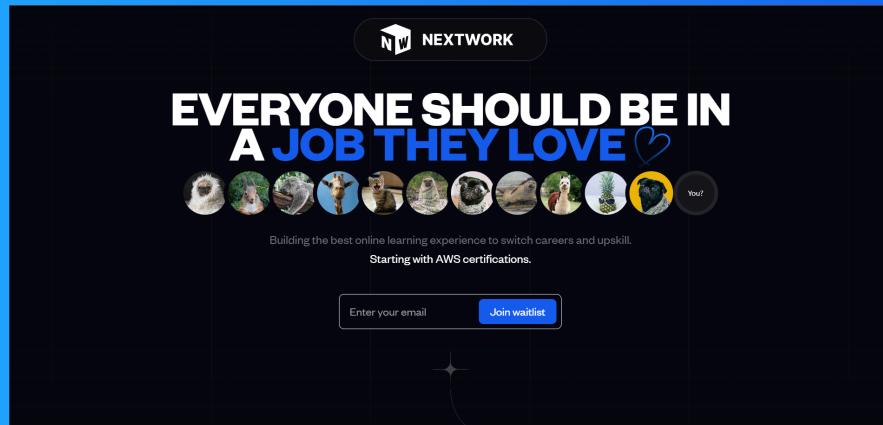


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Host a Website on Amazon S3



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Introducing Today's Project!

What is Amazon S3

Amazon S3 is a cloud-based storage service that allows you to store and retrieve any amount of data from anywhere.

How I used Amazon S3 in this project

To host a static website of nextwork

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

Acl enabled and to provide the public access

This project took me...

20 min



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How I Set Up an S3 Bucket

Creating an S3 bucket took me approximately 2 minutes.

The Region I picked for my S3 bucket was asia pacific(mumbai) because it is near to my proximity

S3 bucket names are globally unique! This means the name i choose can't be taken by someone else

The screenshot shows the AWS S3 console interface. At the top, there are two tabs: "General purpose buckets" (selected) and "Directory buckets". Below the tabs, a message states: "General purpose buckets (1) All AWS Regions Buckets are containers for data stored in S3." A search bar labeled "Find buckets by name" is present. On the right side of the header, there are buttons for "Create bucket" (highlighted in orange), "Copy ARN", "Empty", and "Delete". The main table displays one bucket entry:

Name	AWS Region	IAM Access Analyzer	Creation date
nextwork-website-project-faizan	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	August 4, 2024, 20:17:38 (UTC+05:30)



Upload Website Files to S3

index.html and image assets

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

Both files are necessary for this project as contains index.html which helps create and design web pages

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					
Name		Type	Last modified	Size	Storage class
<input type="checkbox"/>	Index.html	html	August 4, 2024, 20:28:47 (UTC+05:30)	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 create a URL that will take anyone to a page that displays the HTML file I just uploaded.

To enable website hosting with my S3 bucket, I went to In the Properties section of your bucket, enable Static website hosting .

Access Control Lists (ACL)

An ACL is access control list .I have disabled it for now



Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is <https://nextwork-website-project-faizan.s3.ap-south-1.amazonaws.com/index.html>

The screenshot shows the 'Edit static website hosting' configuration page for a bucket named 'nextwork-website-project-faizan'. The 'Static website hosting' section is active, with 'Enable' selected for both static website hosting and hosting type. The 'Index document' field contains 'index.html'. A note at the bottom of the page states: '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.'

Amazon S3 > Buckets > nextwork-website-project-faizan > 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](#)

ⓘ 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](#)



An error!

When I first visited the bucket endpoint URL, I saw 403 forbidden

The reason for this error was static website is being hosted by S3, but the actual HTML/image files you've uploaded are still private.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 54K7F6DQSE2NQRS
- HostId: g7+ZI9vLjqO+B9fvuS/07DAezEgR7H+sasQXOdOt20uXyqnwmOjFKukf75HYxarT1D72hMOQ5o4=

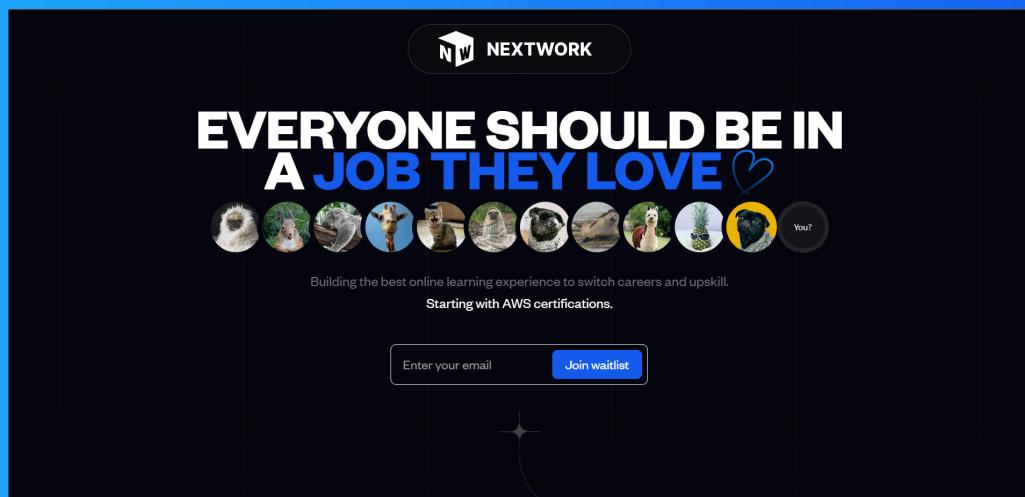


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Success!

'To resolve this connection error, I gave public acess to the ACL





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