

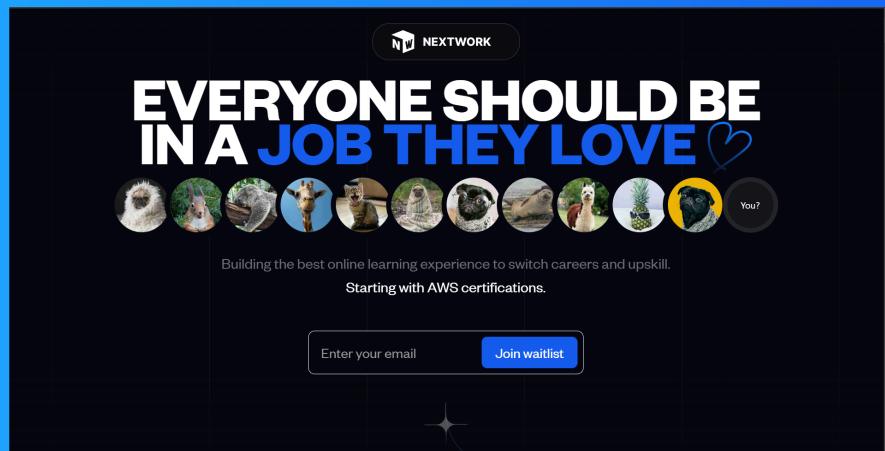


NextWork.org

Host a Website on Amazon S3



Yash Shivle





Introducing Today's Project!

What is Amazon S3

Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance. It's useful for backup, archiving, and hosting static websites, offering high durability, security, and easy access on web.

How I used Amazon S3 in this project

I used S3 to upload HTML file and related images with the app. Then hosted the app through the bucket.

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

The documentation automation process which is going to save me a lot of time and efforts making my time more productive.

This project took me...

30 - 40 minutes



How I Set Up an S3 Bucket

Creating an S3 bucket took me around 5 minutes!

The Region I picked for my S3 bucket was Canada (located in Montreal) because it was closest to my current location.

S3 bucket names are globally unique! This means no other AWS account in the world can have the same bucket name as yours.

The screenshot shows the AWS S3 Buckets page. A green banner at the top indicates that a bucket has been successfully created. The main table lists one bucket:

Name	AWS Region	IAM Access Analyzer	Creation date
nextwork-website-project-cloudnauts	Canada (Central) ca-central-1	View analyzer for ca-central-1	November 15, 2024, 21:39:54 (UTC-05:00)



Upload Website Files to S3

index.html and image assets

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

Both files are necessary for this project as the html file will have structure of the web page and the folder files will have required images and other objects of the webpage.

Name	Type	Last modified	Size
index.html	html	November 13, 2024, 22:04:41 (UTC-05:00)	58.8 K
NextWork - Everyone should be in a job they love_files/	Folder	-	-



Static Website Hosting on S3

Website Hosting means providing storage space and access for websites to users worldwide via web browsers on the internet by allocating resources, such as servers, storage, and bandwidth, to store website files (e.g., HTML, images)

To enable website hosting with my S3 bucket, I chose the Enable option in Static Website hosting, followed by hosting type - static and finally specifying the landing page of the app.

An ACL is Access Control List. It gives users access to individual files or objects within the bucket (use case: object level permissions). I have enabled the ACL for my bucket.

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

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Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is a unique URL when you enable static website hosting for an S3 bucket. It allows users to access the files hosted in the bucket as if they were a website.

When I first visited the bucket endpoint URL, I saw a 404 error (web page could not be found on the server). The reason for this error was because the objects (HTML and images) are private by default.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 0KKTNTMVE9PV2Y9PC
- HostId: oA38XHxL57XMYF8qXk64B/MzsXHLDDZo8DwPSGYw9xwq/n+thX2U3uvZE3JmS2UP/CyPsBe6Y=

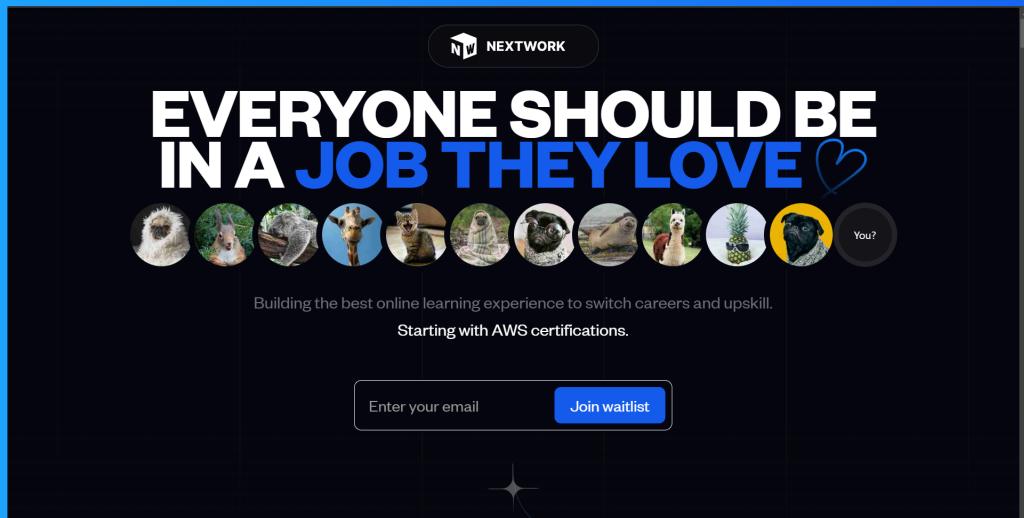


Yash Shivle
NextWork Student

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Success!

To resolve this connection error, I made the 2nd object also publicly accessible in my bucket.





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