

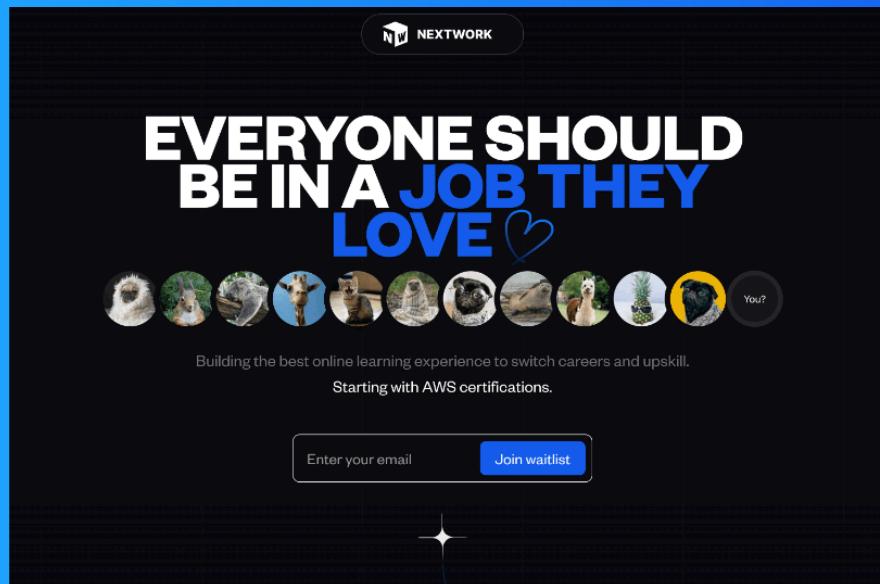


NextWork.org

Host a Website on Amazon S3



rdanu.inbox@gmail.com



Introducing Today's Project!

What is Amazon S3

Amazon S3 is a scalable, secure cloud storage service that lets you store and retrieve data. It's useful for backup, hosting websites, and storing large amounts of data with high durability and security.

How I used Amazon S3 in this project

In today's project, I used Amazon S3 to host a static website by creating a bucket, enabling website hosting, and configuring the necessary permissions and documents (like index page). This allowed me to make the website accessible via a unique URL.

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

One thing I didn't expect in this project was the need to carefully manage permissions for public access to the S3 bucket. Initially, I encountered access errors due to restrictive permissions, which required additional configuration to resolve.

This project took me...

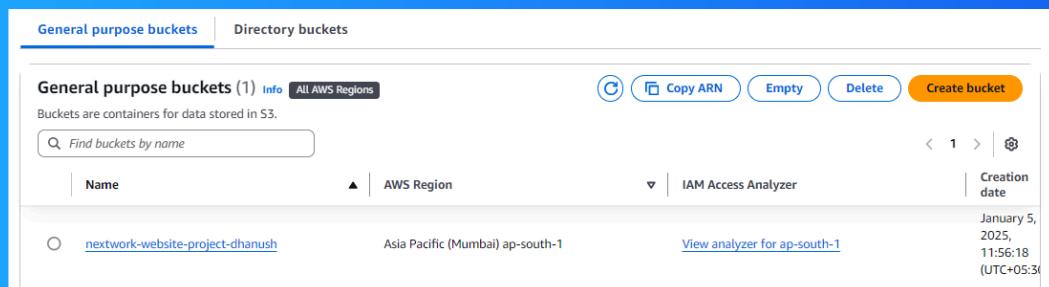
This project took me about 30 to 45 minutes, including setting up the S3 bucket, configuring static website hosting, and troubleshooting permission errors.

How I Set Up an S3 Bucket

Creating an S3 bucket took me just a few minutes, as the process is quick and straightforward with AWS's user-friendly interface.

The Region I picked for my S3 bucket was ap-south-1, because it is the only nearest region for my location.

S3 bucket names are globally unique! This means each name must be different across all AWS accounts and regions, ensuring no two buckets can have the same name worldwide. This uniqueness helps in accessing the buckets via unique URL without conflicts.

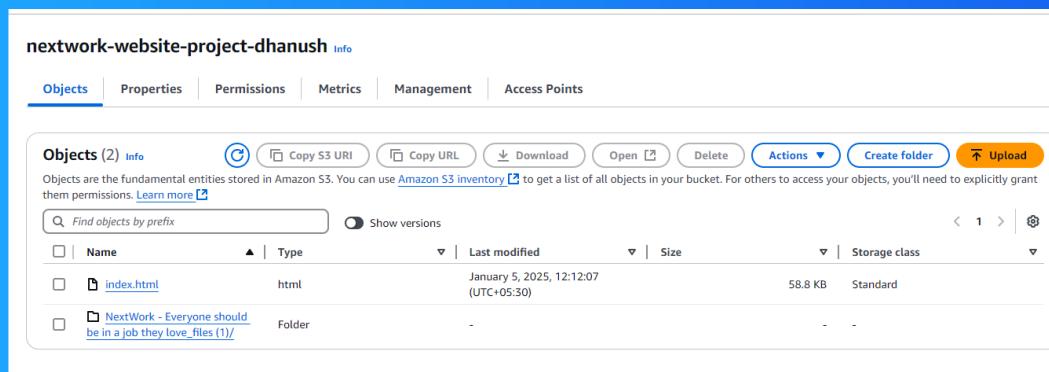


Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were index.html file were there is a setup file for the website and then the Zip file which contains images for the website.

'Both files are necessary for this project as it contains full website hosting contents. We need HTML code to host a website and for good looking we need some images.



Static Website Hosting on S3

Website hosting means storing a website's files on a server to make it accessible on the internet.

To enable website hosting with my S3 bucket, I configured the bucket to act as a static website by enabling the "Static website hosting" option in the bucket settings, specifying an index document, and optionally adding an error document.

An ACL is a set of rules that decides who can get access to a resource. I enabled ACL for this S3 bucket.

Edit static website hosting Info

Static website hosting
Use this bucket to host a website or redirect requests. [Learn more](#)

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](#)

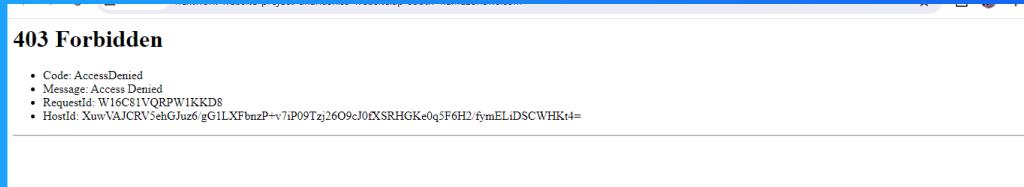
For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket.
For more information, see [Using Amazon S3 Block Public Access](#)

Index document
Specify the home or default page of the website.

Bucket Endpoints

Once static website hosting is enabled, S3 produces a bucket website endpoint URL, which is a unique URL where the static website can be accessed publicly, typically in the format `http://bucket-name.s3-website-region.amazonaws.com`.

When I first visited the bucket endpoint URL, I saw an error message "403 Forbidden". The reason for this error was likely due to incorrect permissions or missing index documents in the bucket, preventing the website from being displayed properly.



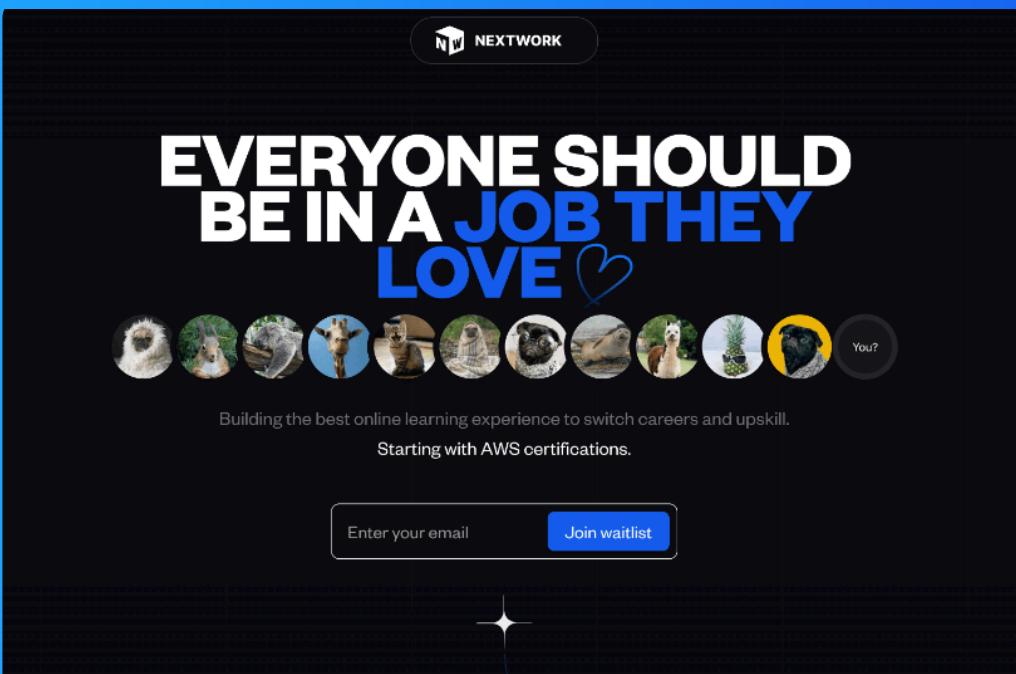
RD

rdanu.inbox@gmail.com
NextWork Student

NextWork.org

Success!

To resolve this connection error, I updated the bucket's permissions to allow public access and ensured the correct index document was specified in the static website settings.





NextWork.org

Everyone should be in a job they love.

Check out nextwork.org for
more projects

