

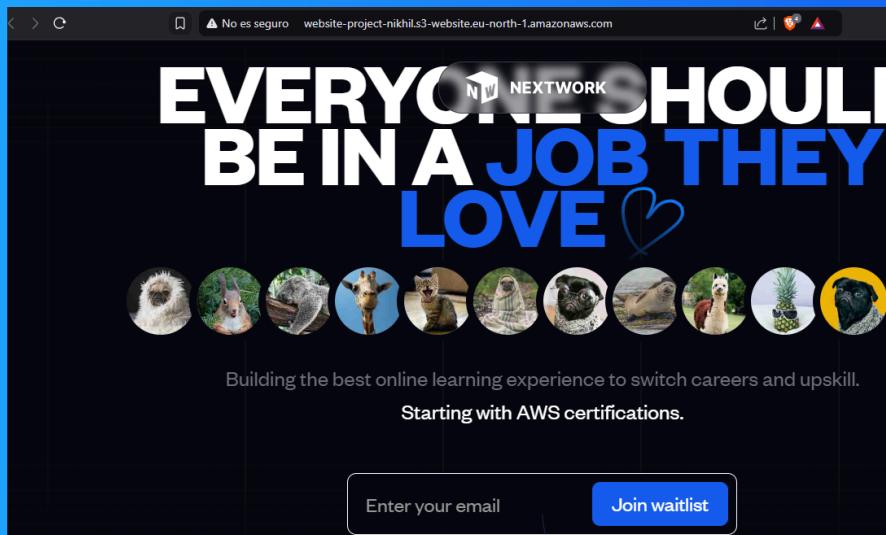


NextWork.org

Host a Website on Amazon S3



nikhil7_94@hotmail.com



Introducing Today's Project!

What is Amazon S3

Amazon S3 allows users to store files as objects within buckets. It is a service provided by AWS for storing and retrieving large amounts of data. It's useful for backups, static website hosting, content delivery, and data archiving.

How I used Amazon S3 in this project

I created a S3 bucket to host a static website by adding the required files/folders with all the resources and making it public so it can be shown through the URL endpoint.

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

S3 buckets are created private so when you upload the files they wont be seen publicly. You have to change the ACL to public in order to see the website.

This project took me...

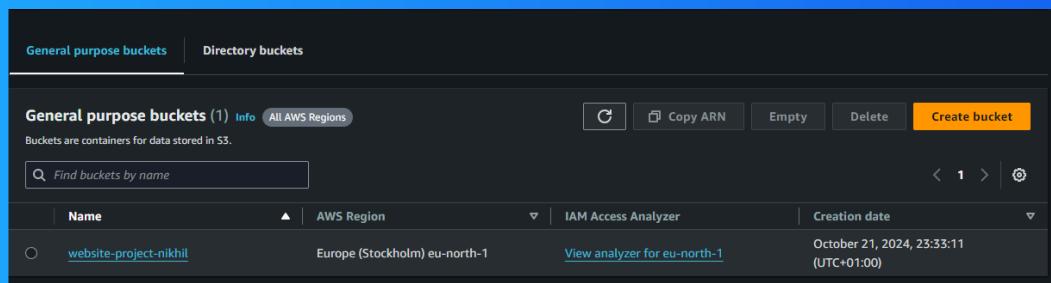
I took around half hour for this first project.

How I Set Up an S3 Bucket

Creating an S3 bucket took me about 2 minutes.

The Region I picked for my S3 bucket was Europe (Stockholm) eu-north-1 as it was the closest to me available.

S3 bucket names are globally unique! This means that the name you choose for an S3 bucket must be different from any other bucket name used across all AWS accounts and regions worldwide. There are no 2 S3 buckets with the same name.

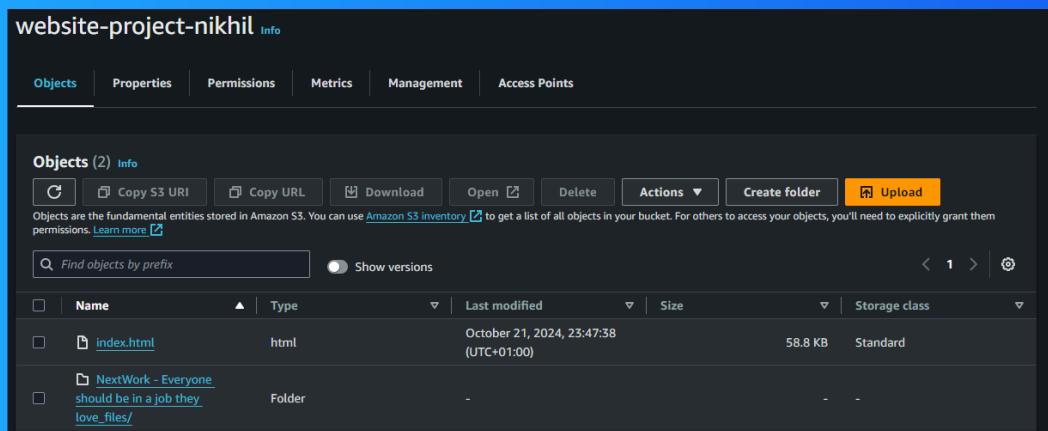


Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were an index file in html and a folder containing the rest of the documents.

Both files are necessary for this project as they contain all the resources of the website.



Static Website Hosting on S3

Website hosting means storing all the resources of the website file on a server so users can access to it.

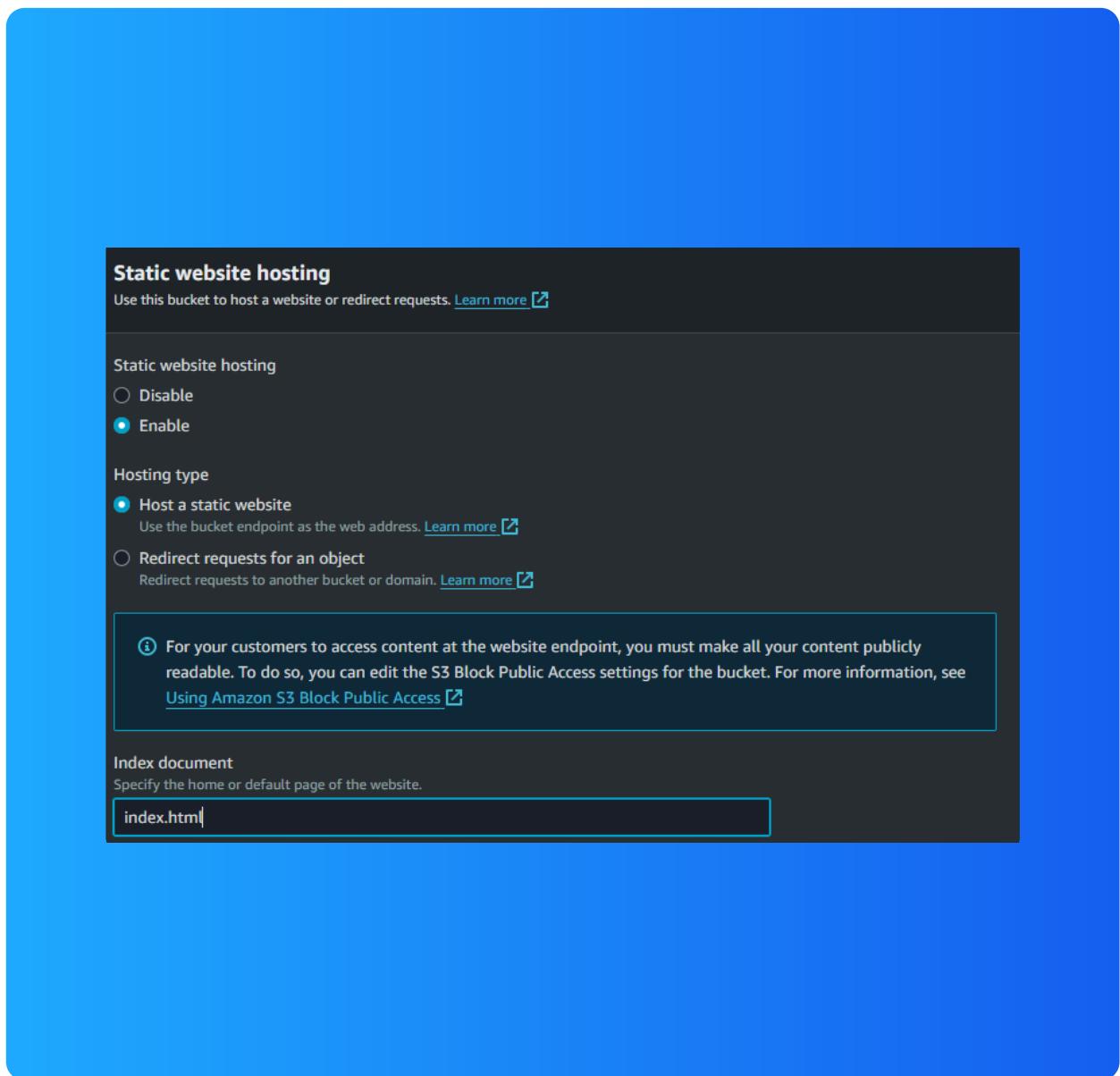
To enable website hosting with my S3 bucket, I edited the properties of the S3 bucket and configured the static website hosting enabling it and indicating the index.html file.

Access Control Lists (ACL)

An ACL is a set of rules that decides who can get access to a resource.

Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is a web address provided by Amazon S3 when you enable static website hosting for an S3 bucket.



An error!

When I first visited the bucket endpoint URL, I saw an error because the files I uploaded are still private even though the S3 bucket is public.

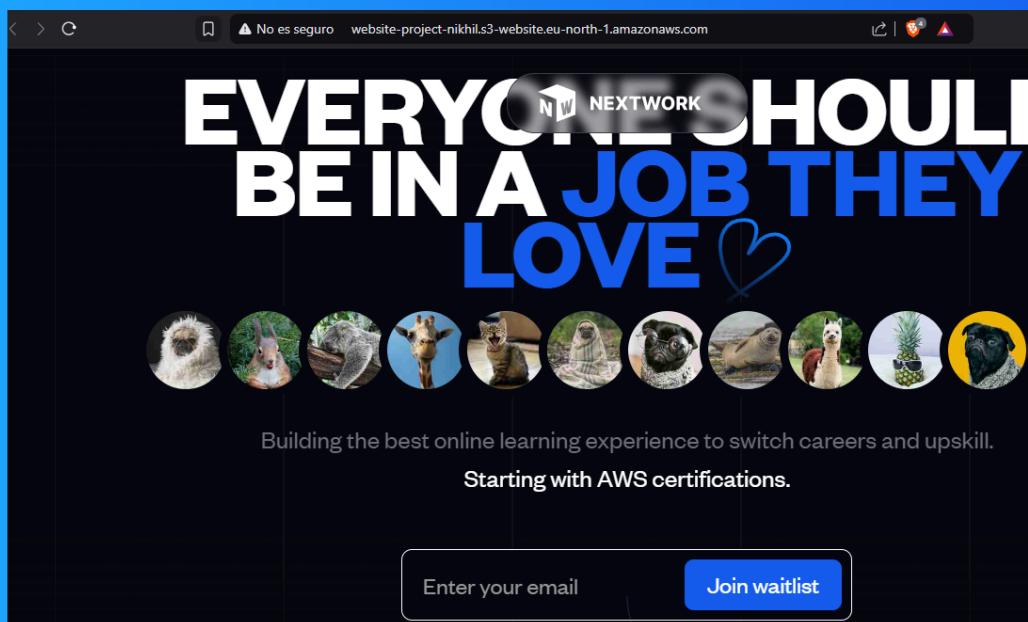
The reason for this error was because the actual HTML/image files I uploaded are still private.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: T5DW5NH7W1PDNG0J
- HostId: 2X9z4XM2RVZieowwKzvleHzczG1j8xfjmljnoTD+Q+nfAJCvfETA6eFRgUlctdvWNaGjN9b8cy0=

Success!

To resolve this connection error, I saw there was a subfolder inside the parent folder. The file with all the resources was inside this subfolder which was the folder you have to upload in the S3 bucket.





NextWork.org

Everyone should be in a job they love.

Check out nextwork.org for
more projects

