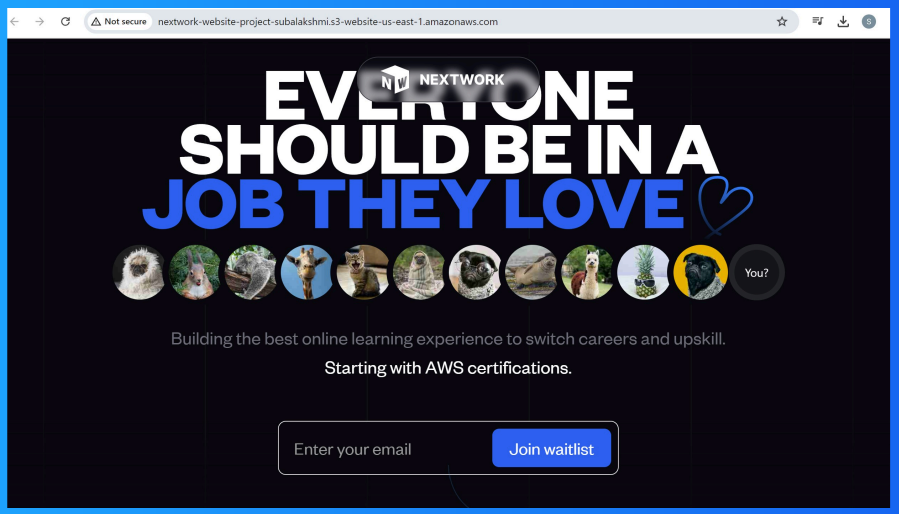
# Host a Website on Amazon S3



# Introducing Today's Project: An Overview of Amazon S3

In today's project, I had the opportunity to explore and utilize Amazon S3, one of the most reliable and versatile storage services provided by AWS (Amazon Web Services). It is an incredibly powerful tool designed to store and retrieve large volumes of data with ease. One of the standout features of Amazon S3 is how efficiently it handles the uploading of sizable files, reducing the process to mere minutes. Additionally, I was pleasantly surprised by how quickly I could host a website using this service—it took just a fraction of a second to get everything up and running.

How I Incorporated Amazon S3 in This Project

For this project, I leveraged Amazon S3 to upload a variety of file types, which facilitated the hosting of a website in record time. The simplicity of the process and the service's intuitive interface allowed me to quickly manage file uploads and configure the hosting environment without any hassle.

A Surprising Discovery During the Project

One aspect that truly surprised me was the minimal amount of time it took to complete the tasks compared to other technologies. While I had expected efficiency, I didn't anticipate how significantly Amazon S3 would outperform other tools in terms of time saved.

Time Spent on the Project

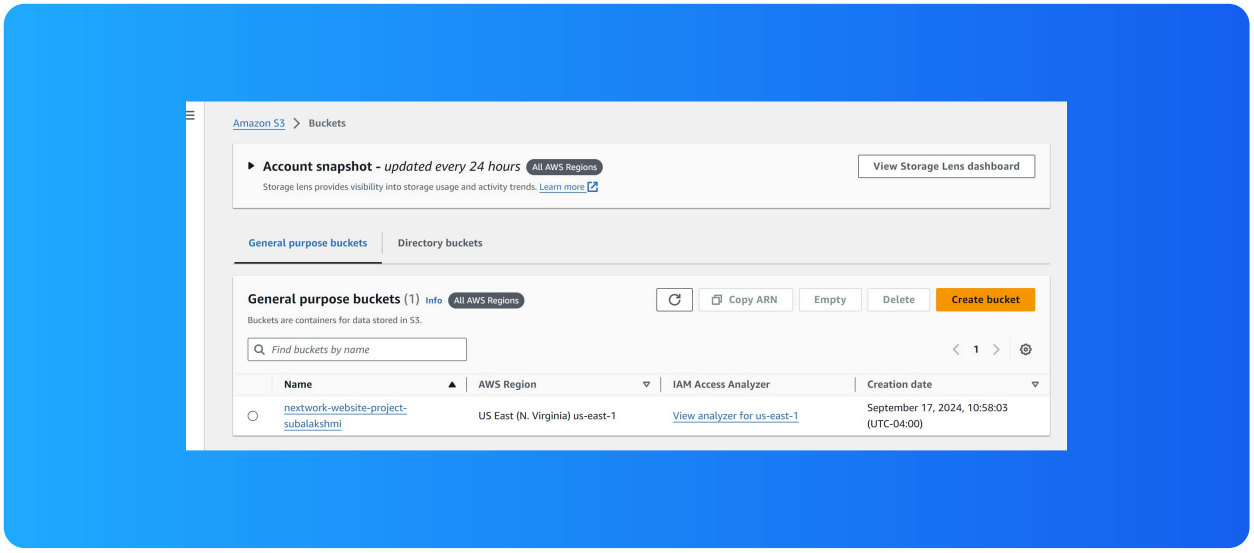
To my amazement, the entire project— from file uploads to hosting the website— was completed in just *10 minutes*. This demonstrates the incredible speed and efficiency Amazon S3 brings to the table, making it a go-to solution for projects involving large data storage and web hosting.

# How I Set Up an S3 Bucket

Creating an S3 bucket took me a minute

The Region I picked for my S3 bucket was us-east-1 because it was the closest region to my location.

S3 buckets are globally unique! This means no other bucket can be named with the same naming convention around the world.

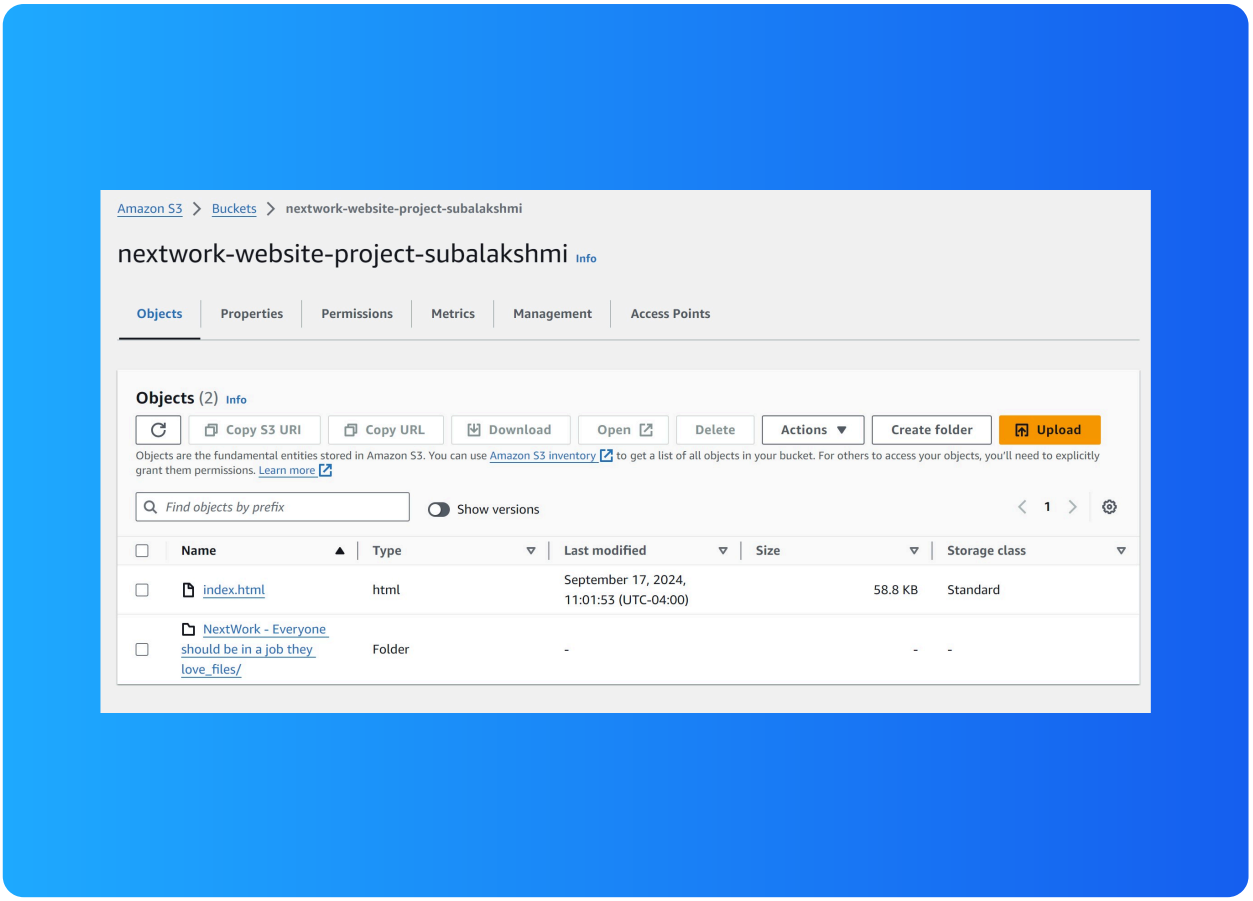


# Upload Website Files to S3

## index.html and image assets

I uploaded two files to my S3 bucket - they were the HTML file and the Folder.

Both Files are necessary for the project to host a successful website. They are related to each other the HTML file has the website structure while the folder has all the images and styling files to launch a website



# Static Website Hosting on S3

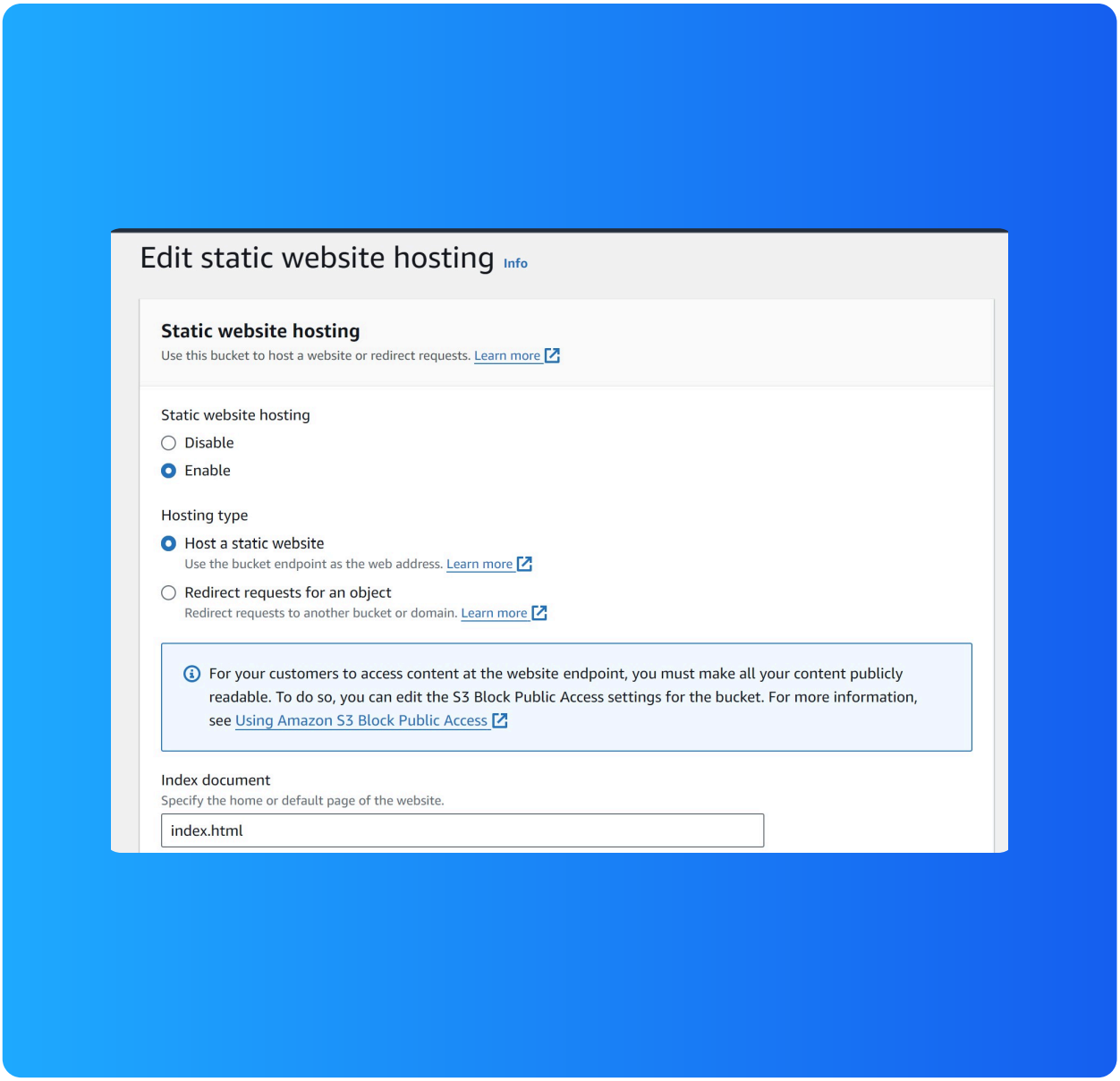
Website hosting involves making an HTML file accessible to the public on the Internet.

To enable website hosting with my S3 bucket, I need to enable static website hosting and make the objects public with ACL.

**Access Control Lists (ACL)**
An ACL is a set of rules that decides who can access the resources. I enabled ACL while creating the S3 bucket

# Bucket Endpoints

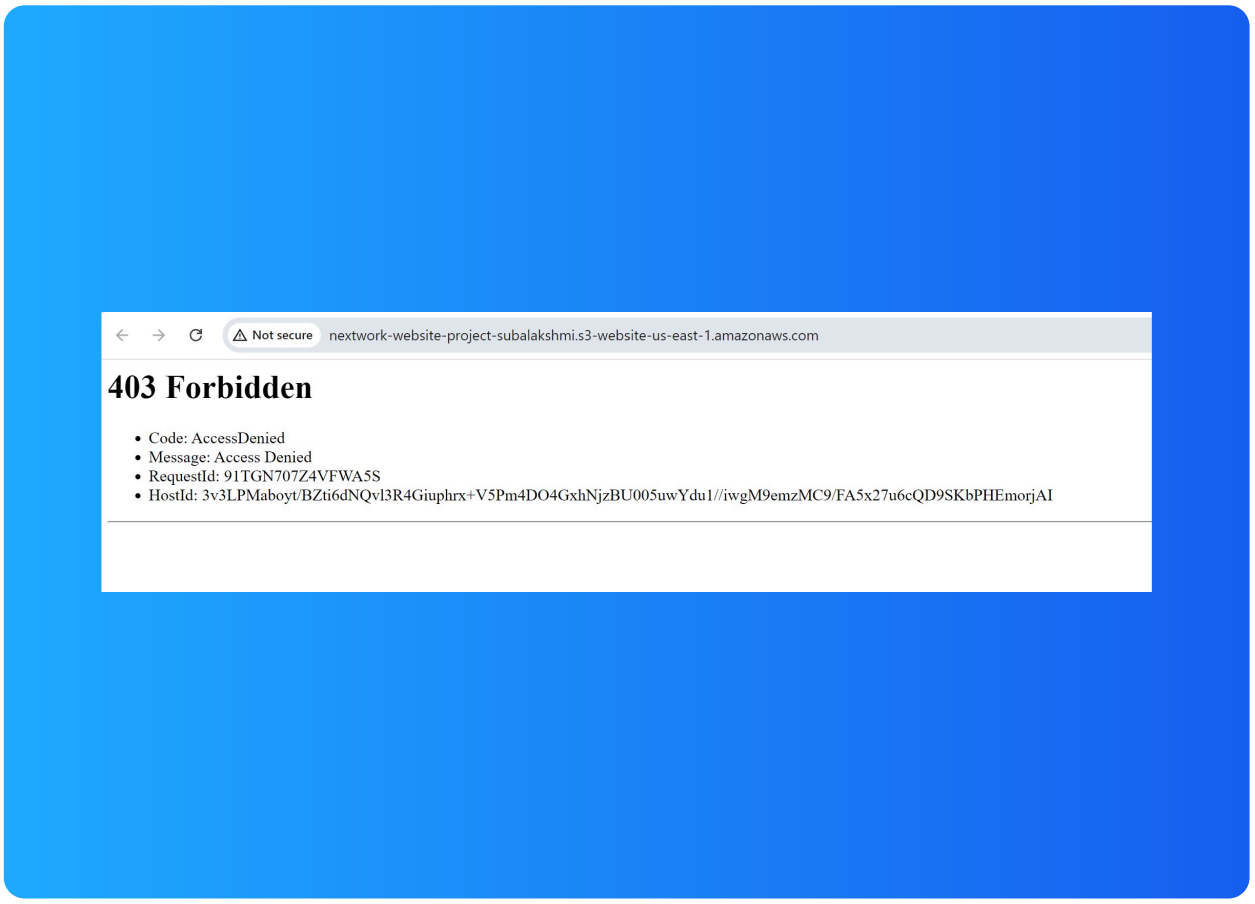
Once static website is enabled, S3 produces a bucket endpoint URL, which is the public access URL of the website hosted.



# An error!

When I first visited the bucket endpoint URL, I saw an error message stating 403 Forbidden.

The reason for this error was the objects stored in the S3 bucket are by default with private settings. So had to make it public using ACL.



# Success!

To resolve the connection error, I tried to delete the folder object and re uploaded only a specific folder which is required instead of the entire zip folder.