

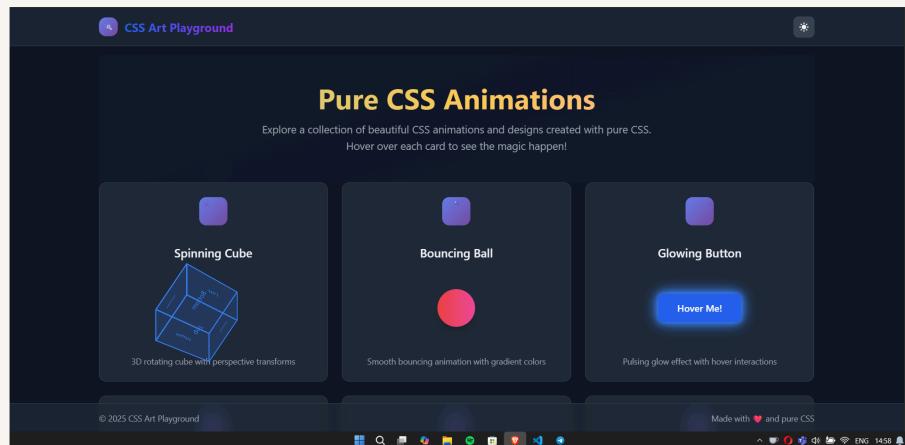


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# Host a Website on Amazon S3

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# Introducing Today's Project!

In this project, I will demonstrate using Amazon S3 to host a static website. I'm doing this project to learn about Amazon S3 and to store the website and its respective files.

## Tools and concepts

Services I used were Amazon S3. Key concepts I learnt include: 1. Creating a bucket 2. Adding files into the bucket 3. Static website hosting 4. Resolving errors related to private objects 5. Understanding bucket policies.

## Project reflection

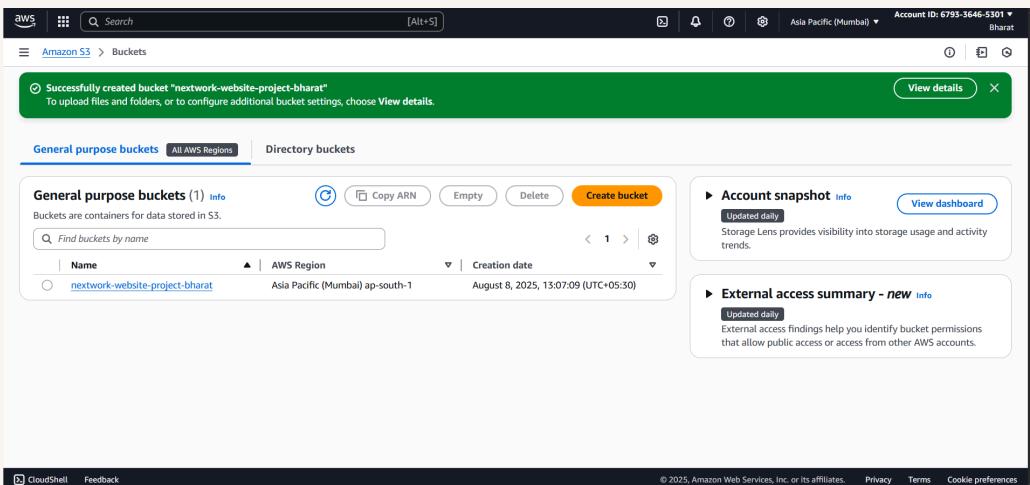
This project took me approximately 45 minutes. The entire project was a great aid to understand Amazon S3 features. It was most rewarding to see my website live!

# How I Set Up an S3 Bucket

Creating an S3 bucket took me around 10 minutes. Here we learned about ACLs, blocking public access. Once understood, creating a bucket will take much lesser time

The Region I picked for my S3 bucket was Mumbai because that's the closest region to me. Its always best to pick the closest region, so that it takes lower latency to retrieve the things and also takes lesser cost.

S3 bucket names are globally unique! This means no two Amazon S3 buckets can have the same name, they have to be completely unique, regardless of the region or the account ID.

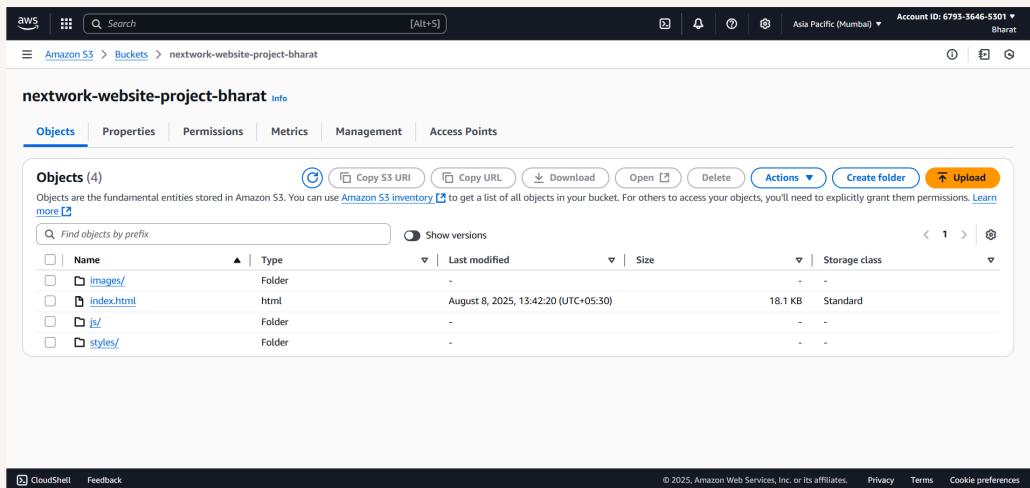


# Upload Website Files to S3

## index.html and image assets

I uploaded two files to my S3 bucket - they were the index.html file which is the main file and its respective images and css files

Both files are necessary for this project as index.html carries the structure of the webpage while css gives the styling and images are used in the webpage.



# Static Website Hosting on S3

Website hosting means putting our website files onto a web server where the files can be turned into a website which people can visit.

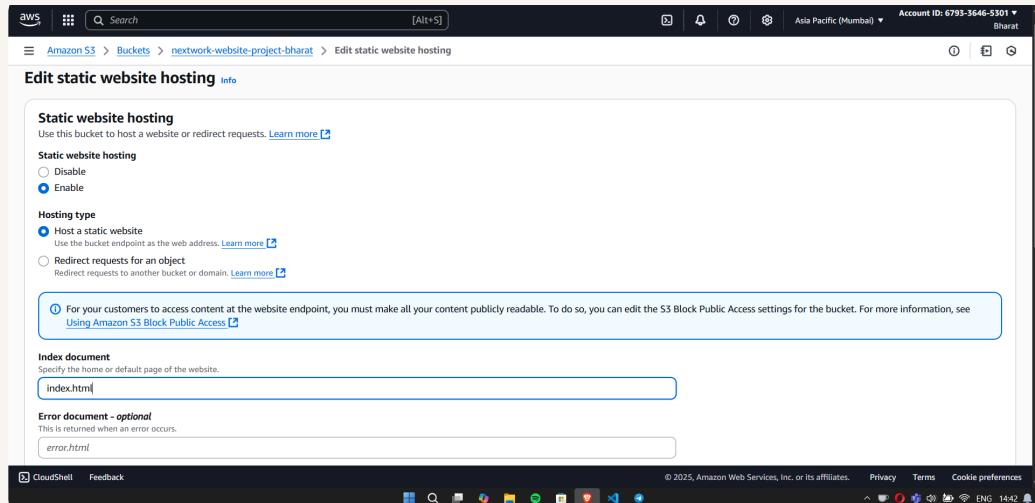
To enable website hosting with my S3 bucket: 1. Navigate to your bucket 2. Select the properties tab 3. Select and Enable static website hosting 4. Select the index document (doc that has to be hosted)

An ACL is a set of rules that decides who can get access to a resource. Its a way to configure permission settings in a bucket. We enabled ACL so that we can control access to our website files later.

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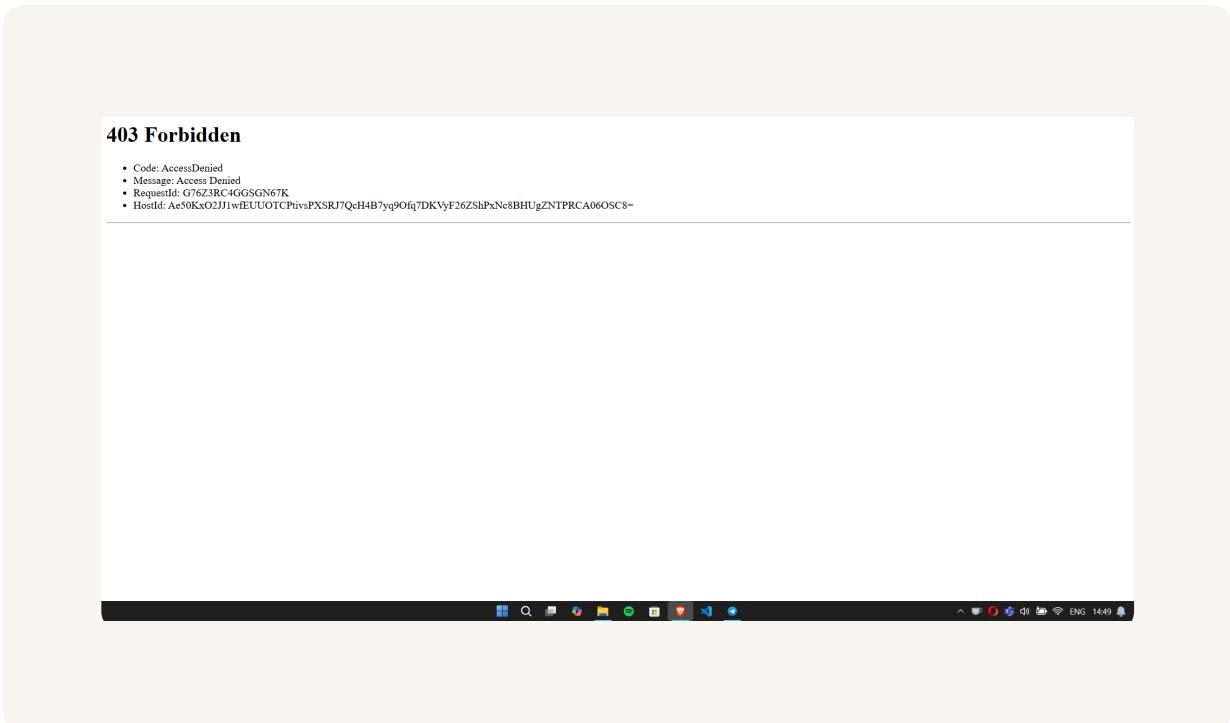
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# Bucket Endpoints

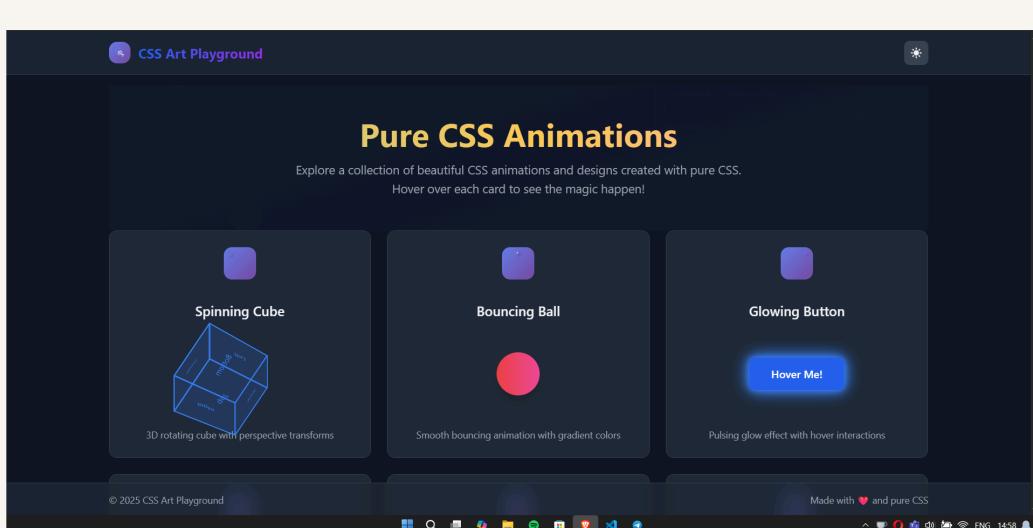
Once static website is enabled, S3 produces a bucket endpoint URL, which is like a regular URL through which people can access our respective website.

When I first visited the bucket endpoint URL, I saw a 403 Forbidden error. The reason for this error is our objects(website files we uploaded) are private by default.



# Success!

To resolve this 403 Forbidden error, we navigated to the objects tab of our bucket. Then we selected the checkboxes of our files and in the actions dropdown menu, we selected make them public through ACLs option. Then if we refresh website is live.





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