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Host a Website on Amazon S3

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Introducing Today's Project!

In this project, I will demonstrate S3 I'm doing this project to learn how to host a static website, ACL configurations and security.

Tools and concepts

Services I used were S3 storage, Objects Key concepts I learnt include Objects security, that AWS by default make it private for all uploaded objects

Project reflection

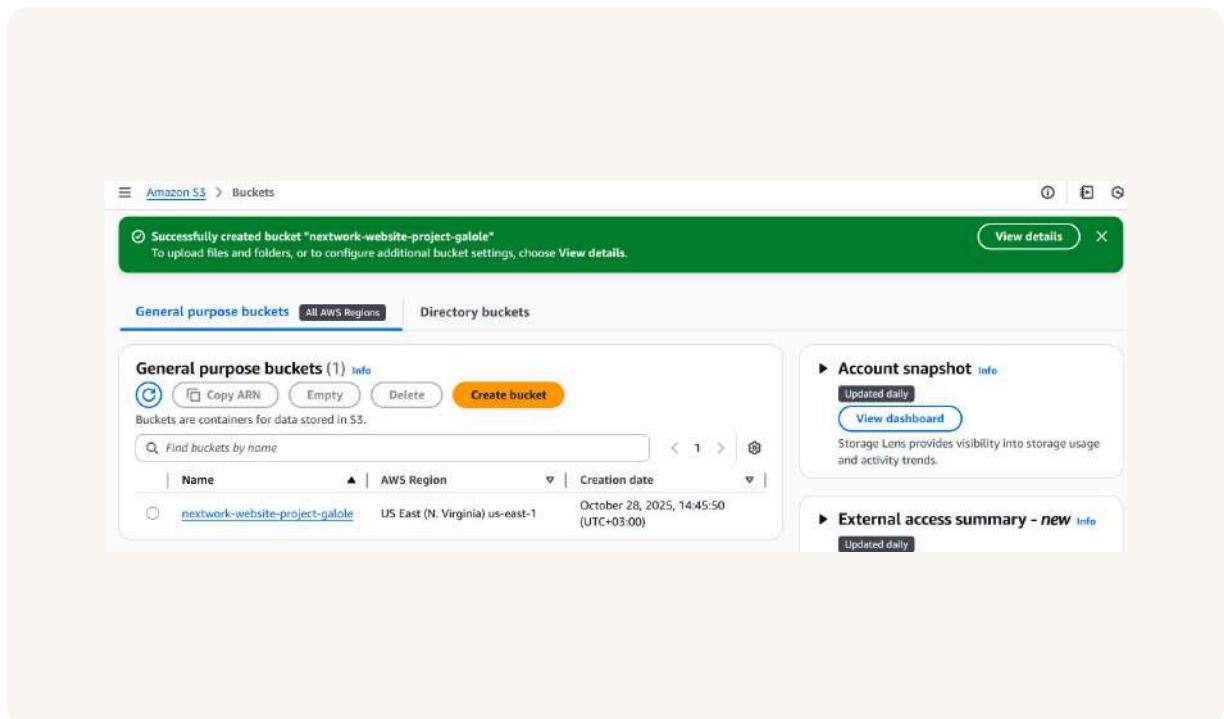
This project took me approximately 40 minutes or so The most challenging part was 403 Forbidden Error It was most rewarding to have finally figured it out and solve the puzzle of 403 Forbidden Error and my Static website boom was available.

How I Set Up an S3 Bucket

Creating an S3 bucket took me some few minutes

The Region I picked for my S3 bucket was North virginia because it is the nearest Region and to reduce Latency.

S3 bucket names are globally unique! This means S3 uses a global namespace for bucket names

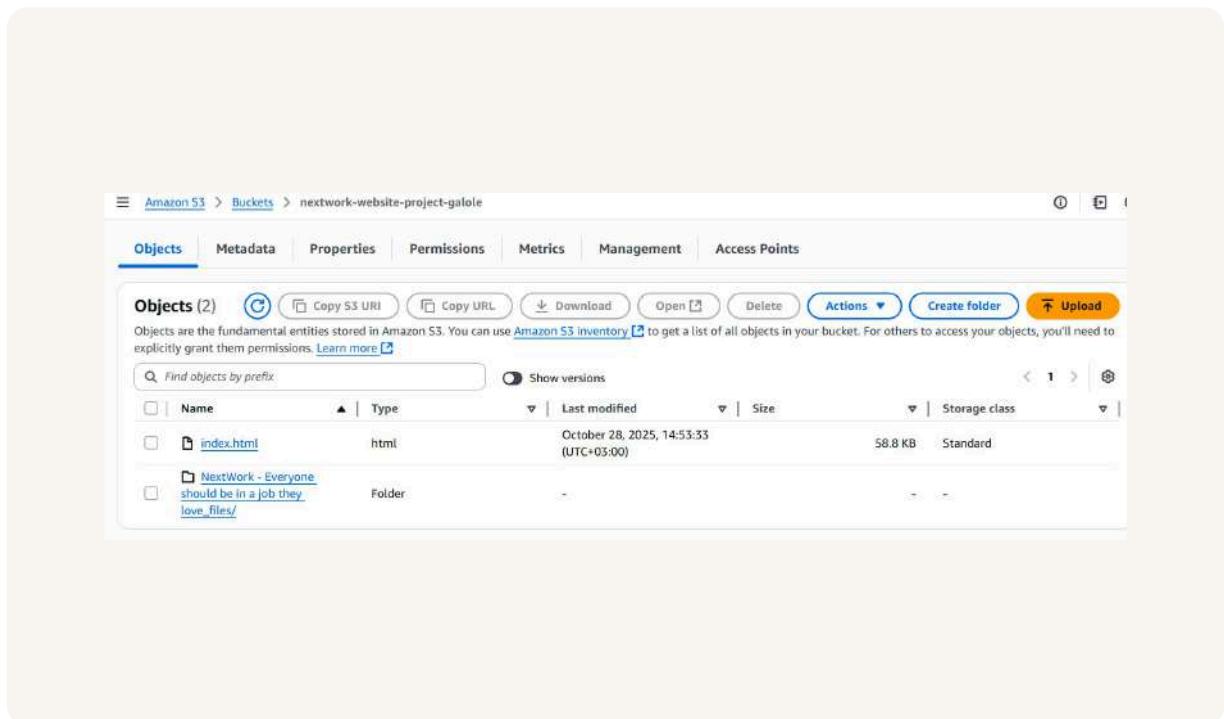


Upload Website Files to S3

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 index.html contains the web page configuration while the folder contains accessible images to be viewed when hosted.

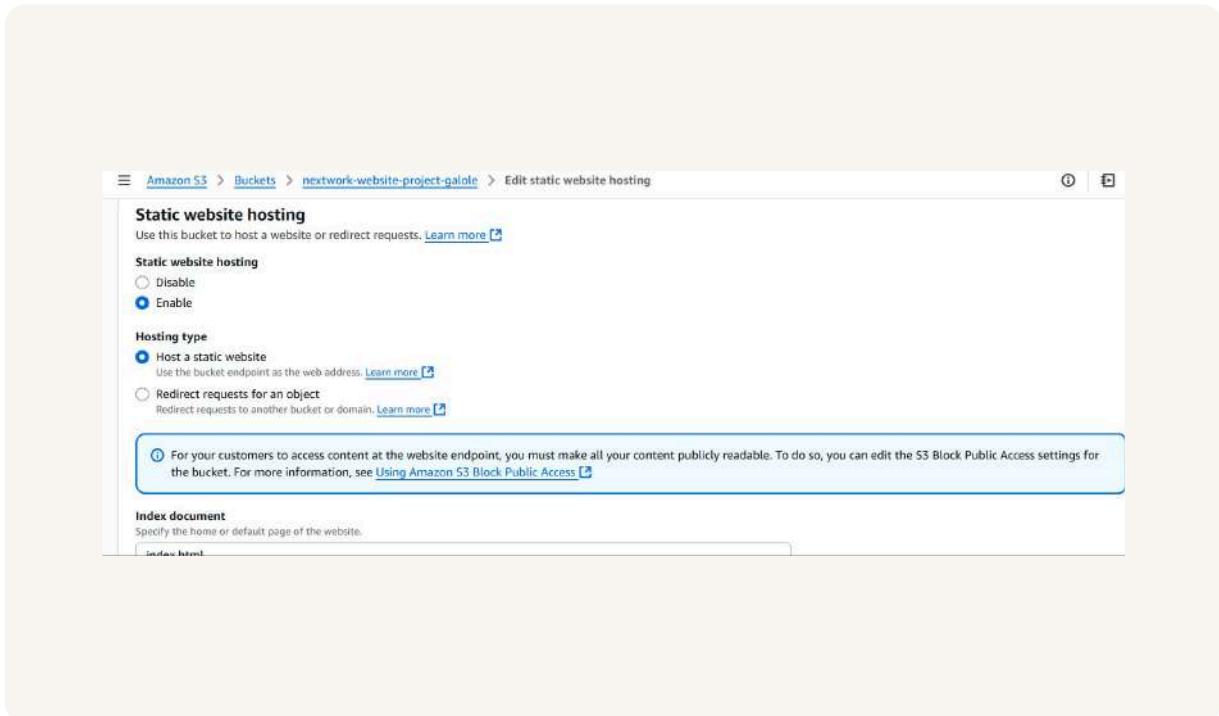


Static Website Hosting on S3

Website hosting means whatever objects you upload in S3 buckets you create a storage space for them and make them accessible over the internet.

To enable website hosting with my S3 bucket, I enabled versioning which will help me recover object if it is overwritten and allowed public access.

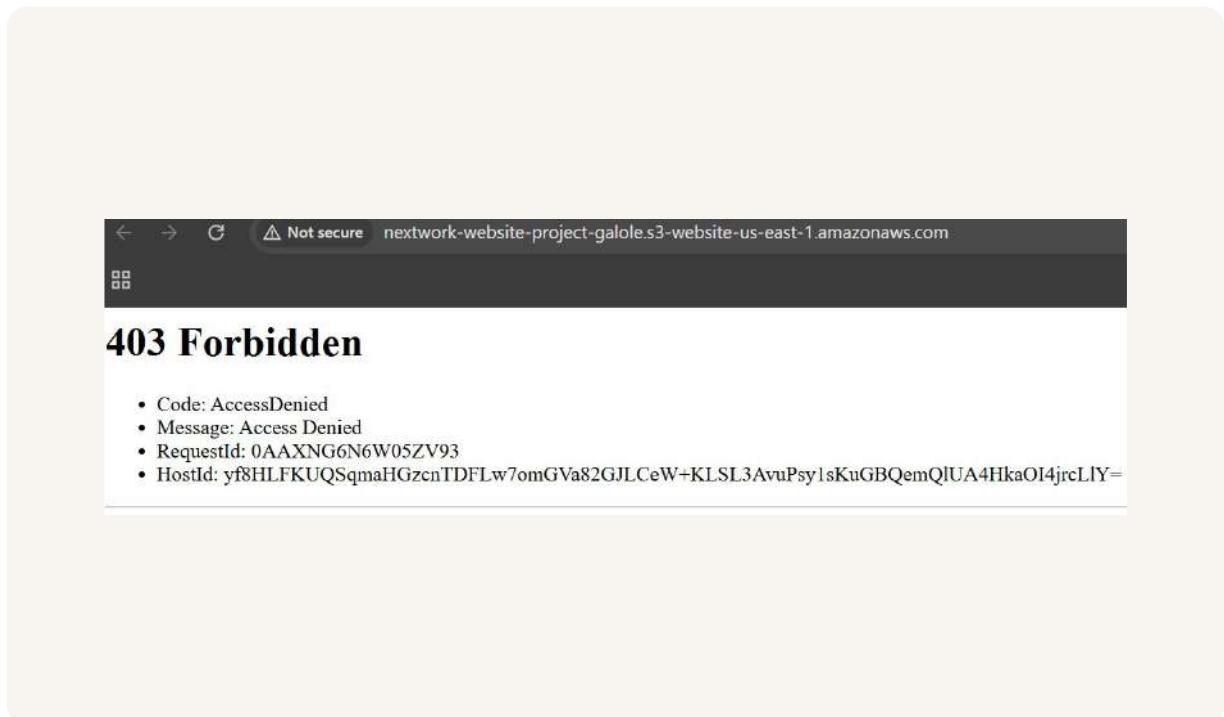
An ACL is a rule configured to control who can access to a resource in AWS



Bucket Endpoints

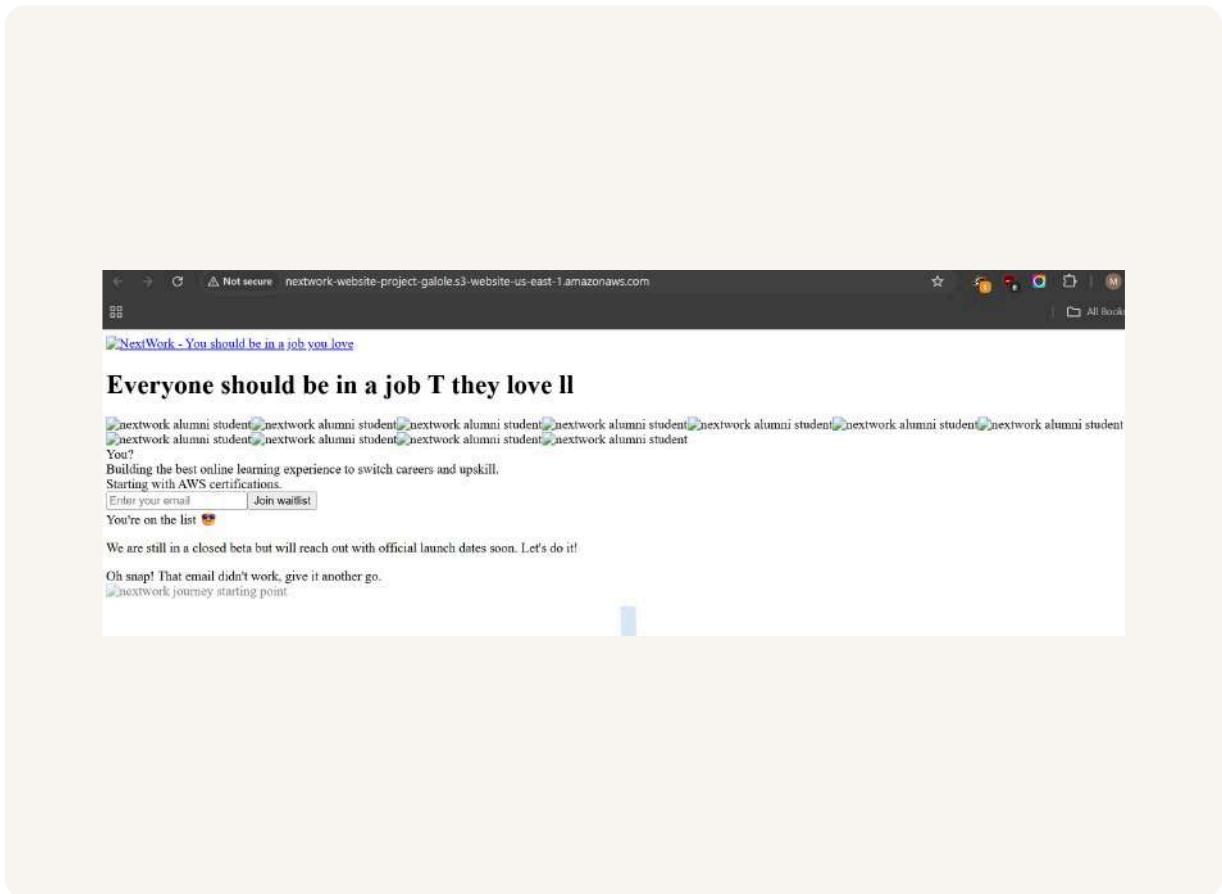
Once static website is enabled, S3 produces a bucket endpoint URL, which is the accessible link for the object in question over the internet

When I first visited the bucket endpoint URL, I saw 403 Forbidden Error. The reason for this error was because the objects are still in private mode, which I have to change them to public.



Success!

To resolve this 403 Forbidden error, I changed permissions of index.html and the folder and allowed everyone to read the files.





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