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Host a Website on Amazon S3

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Anusha Reddy B



Introducing Today's Project!

In this project, I will demonstrate... I'm doing this project to learn...to learn th working of AmazonS3 and how it handles the working of storing and retrieving the data.

Tools and concepts

Services I used were AmazonS3 Key concepts I learnt include how to host the website using webserver that is AmazonS3. key concepts of S3 and its configurations, uploading and hosting the files and folders and its ACLs.

Project reflection

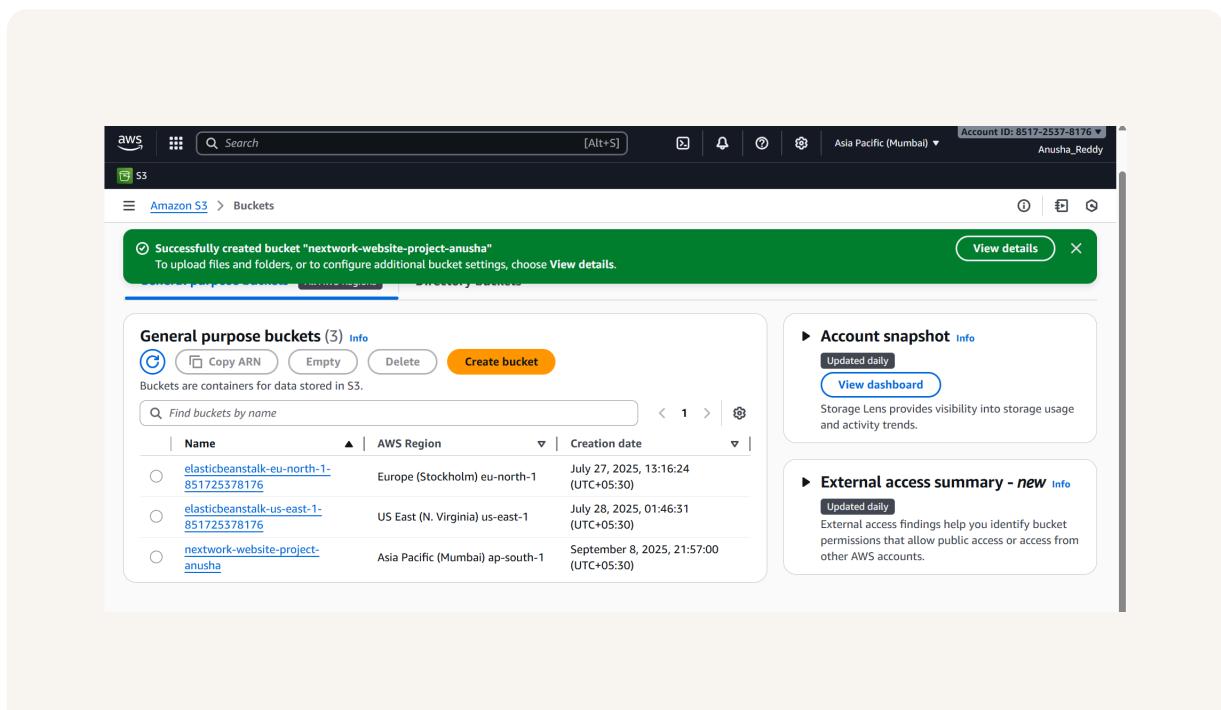
This project took me approximately 2 hrs. The most challenging part was ACLs. It was most rewarding to get to this new concepts of AmazonS3.

How I Set Up an S3 Bucket

Creating an S3 bucket took me half an hour.

The Region I picked for my S3 bucket was Asia Pacific(Mumbai) because it's the closest AWS Region to me.

S3 bucket names are globally unique! This means that each bucket name should be unique that no one can use the bucket and it can only be used once it's deleted. so each bucket created should be unique.

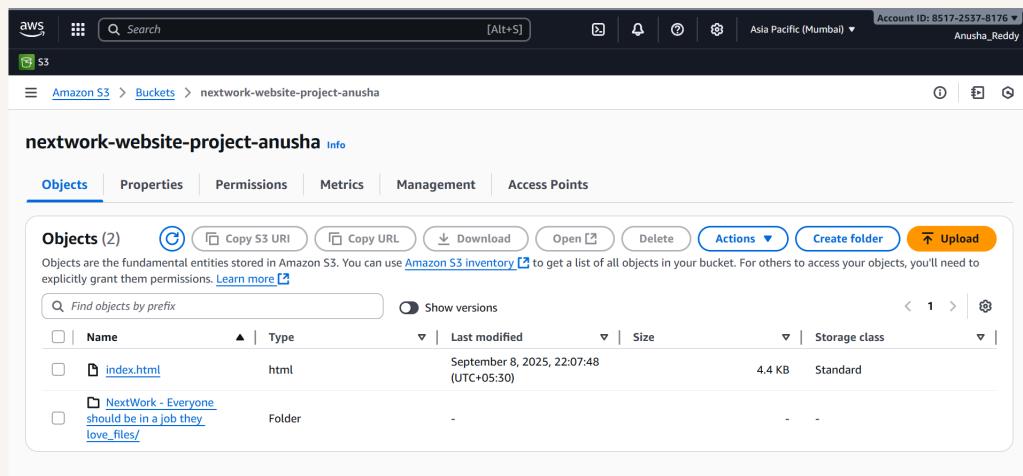


Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were index.html and folder containing 44 files inside a folder.

Both files are necessary for this project as index.html is structure of the website and other folder containing remaining files and the images related to the webpage that stored and retrieved from the S3.

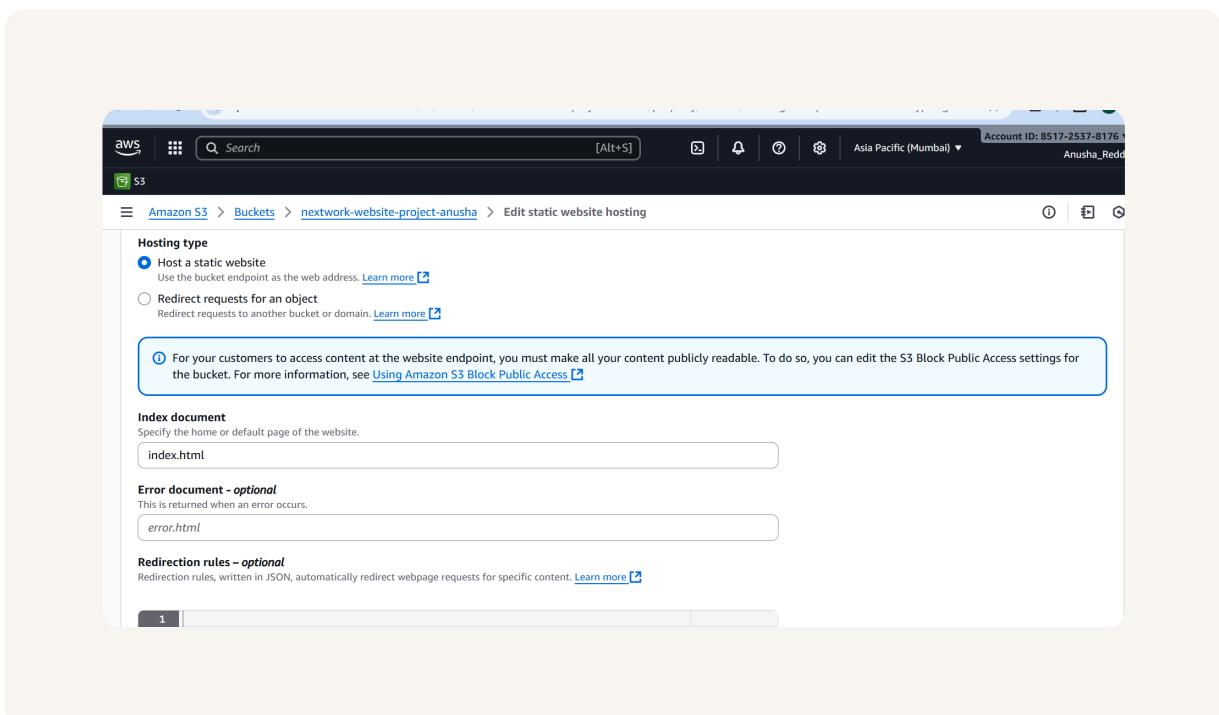


Static Website Hosting on S3

Website hosting means hosting website on web servers so that it would accessed publicly through the internet online mode.

To enable website hosting with my S3 bucket, I uploaded the index.html file and remaining other files of pictures into the AmazonS3.

An ACL is Access Control List that has access to control the each object in the bucket individually. I enabled the ACLs.



Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is a regular website link that allows users to visit the files stored in S3 as a website.

When I first visited the bucket endpoint URL, I saw 403 forbidden error message. The reason for this error was static website is being hosted by S3, but actual HTML/image files uploaded are still private and cannot be accessed.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: R73QSCA7B90ZR32K
- HostId: 6WXpicGjZN60IwTOkBeajxGniQzPiSX5O1OFt+3y+CWCUIb2nMixYLTkLAWOs bMVienCZ1rTwdc=

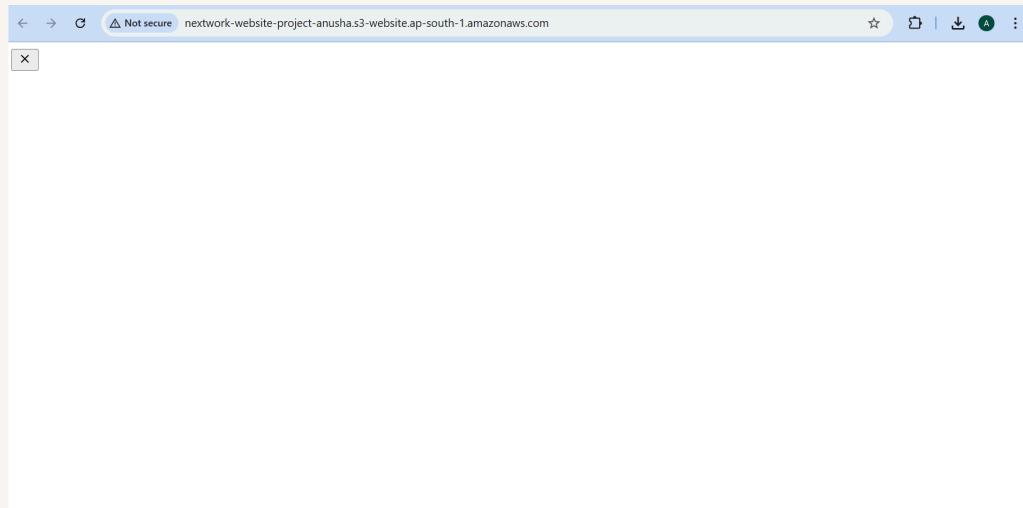
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Anusha Reddy B
NextWork Student

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Success!

To resolve this 403 Forbidden error, I edit the access control of the index.html file and folder into public using ACLs.





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