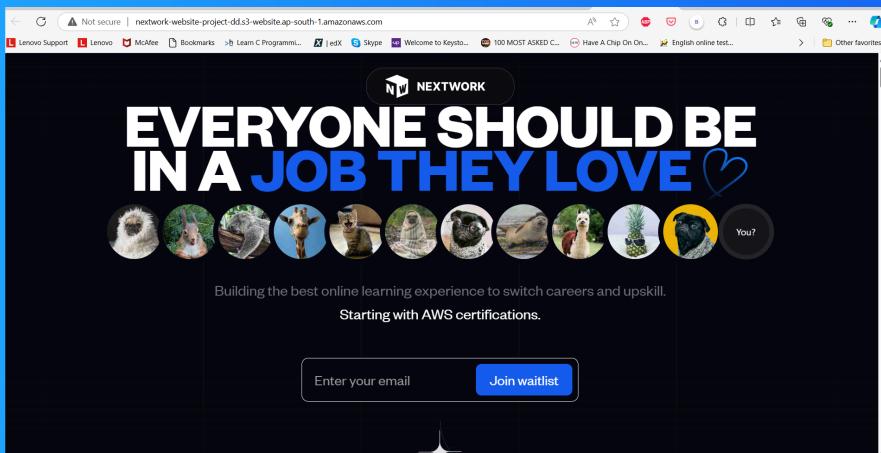




Host a Website on Amazon S3



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Introducing Today's Project!

What is Amazon S3

S3 is a scalable object storage service provided by AWS (Amazon Web Services). It allows users to store and retrieve large amounts of data (such as files, images, backups, and videos) via the internet.

How I used Amazon S3 in this project

Amazon S3 in today's project was hosted on very own static website on Amazon S3.

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

Many users initially expect S3 to be straightforward, but managing access control (through bucket policies, IAM roles, ACLs) can be more intricate than expected, especially when balancing security with accessibility for different users or application

This project took me...

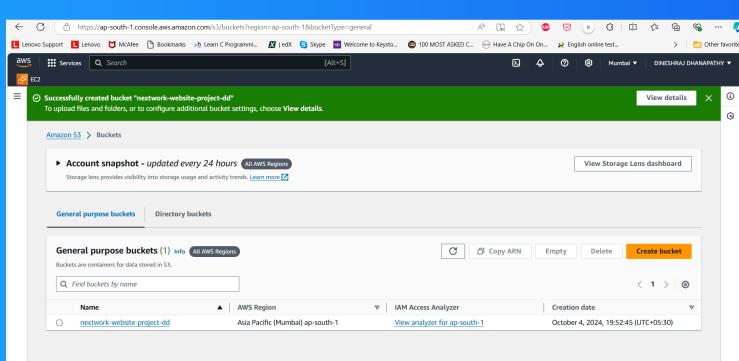
Basic setup (creating an S3 bucket, configuring permissions) usually takes only a few minutes. Uploading file and folder then encounter the error message take a few minutes.

How I Set Up an S3 Bucket

Creating an S3 bucket took me only a few seconds. The process is nearly instantaneous once you specify the bucket's name, region, and settings, as it's handled by AWS's fast and scalable infrastructure.

The Region I picked for my S3 bucket was Mumbai(ap-south-1). because its nearby region. Choosing a region geographically close to users or services for faster access. Pricing varies between AWS regions.

S3 bucket names are globally unique! This means that no two S3 buckets can share the same name across all AWS accounts worldwide. Once a bucket is created with a specific name, no other user, anywhere, can create a bucket with that same name.

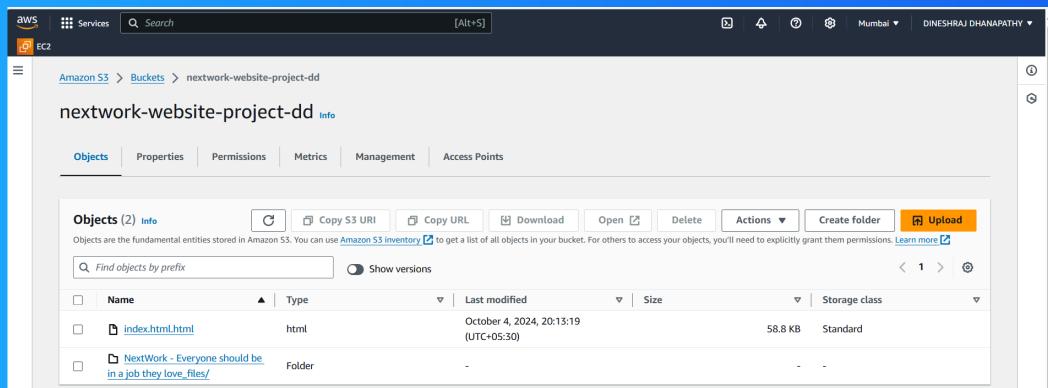


Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were "index.html" files and added the folder "NextWork - Everyone...love_files."

Both files are necessary for this project as HTML is used to create and design web pages. It's your way of telling the website where you want to display your text, images, videos and more.



Static Website Hosting on S3

Website hosting means service that allows individuals or organizations to publish a website or web application on the internet. Hosting providers supply the necessary infrastructure, including servers, storage, and network connect, to store website.

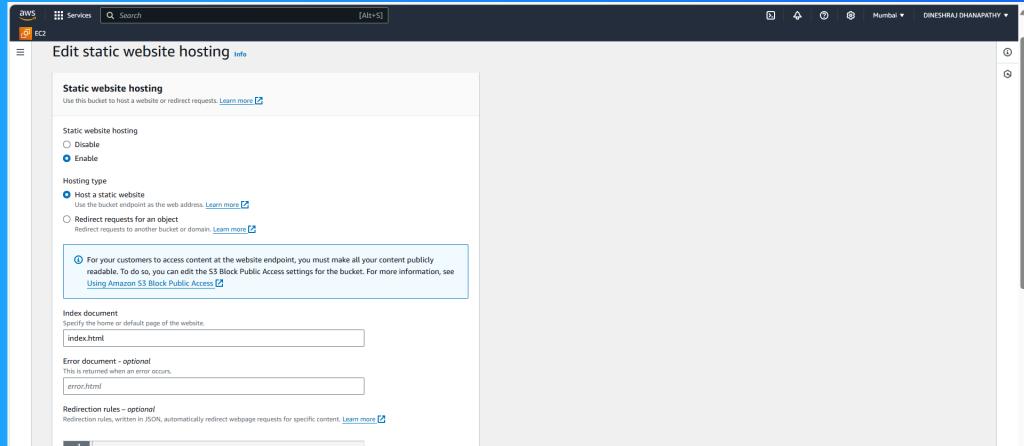
To enable website hosting with my S3 bucket, I can see the options of hosting type and index document. choose the host a static website and enter the index document name "index.html".

Access Control Lists (ACL)

An ACL is An Access Control List (ACL) is a set of rules that specifies which users or system processes are granted access to objects, such as files or network resource. ACLs are enabled, user tries to access a file, user has the required permissions

Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is <http://nextwork-website-project-dd.s3-website.ap-south-1.amazonaws.com/>



An error!

When I first visited the bucket endpoint URL, I saw error message like "403 Forbidden"

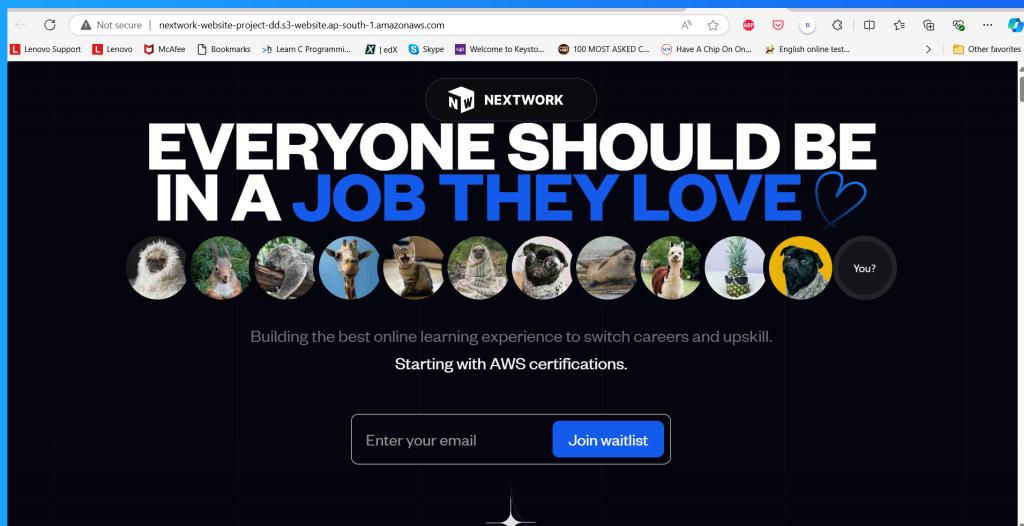
The reason for this error was that something will block all public access. no one can access it.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: MA5WFAG82WVK2H7R
- HostId: IUvIXLiiy0m3xSmarYTc2Wpu6gqPEzRMWEIn7kvH7TM4hq5UIYB+3n3urCTwoQ/Q6V7feG27f3s=

Success!

To resolve this connection error, I find unzipped folder two folder at same name like parent folder and sub-folder. I choose subfolder to upload it.





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