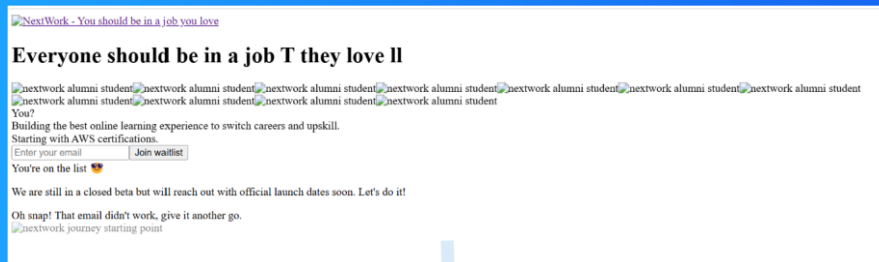




Darpan Patel

Host a website on Amazon S3





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Introducing Today's Project!

What is Amazon S3

Amazon S3 is a scalable cloud storage solution that lets you store and retrieve massive volumes of data. It is useful for website hosting, backup storage, data administration, and ensuring crucial files' availability and durability.

How I used Amazon S3 in this project

In today's project, I utilized Amazon S3 to establish a bucket, upload website files (HTML and images), and set up static web hosting. I then made the files public and hosted the website using the bucket's endpoint URL.

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

One unexpected aspect of this project was the requirement to activate Access Control Lists (ACLs) to make website files publicly available. It was an unexpected step, but it was necessary for making the website visible on the internet.

This project took me...

This project took me approximately 1 hour to finish. Setting up the S3 bucket, uploading files, configuring static website hosting, and debugging access issues took some time, but I was able to complete the tasks and have the website up and operating.



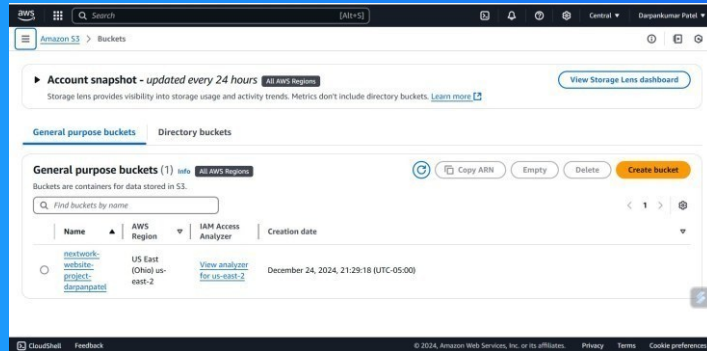
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How I Set Up an S3 Bucket

Creating an S3 bucket took me just a few minutes! The process was straightforward: I logged into the AWS Management Console, configured the bucket's settings, and clicked "Create bucket." It was quick and efficient.

The Region I picked for my S3 bucket was Canada (ca-central-1) because it is geographically closest to me. This ensures lower latency, faster access to my website, and potentially reduced data transfer costs.

S3 bucket names are globally unique! This means that no two S3 buckets in the entire AWS ecosystem can have the same name, regardless of the region. If someone else has already taken a name, you will need to choose a different one for your bucket.





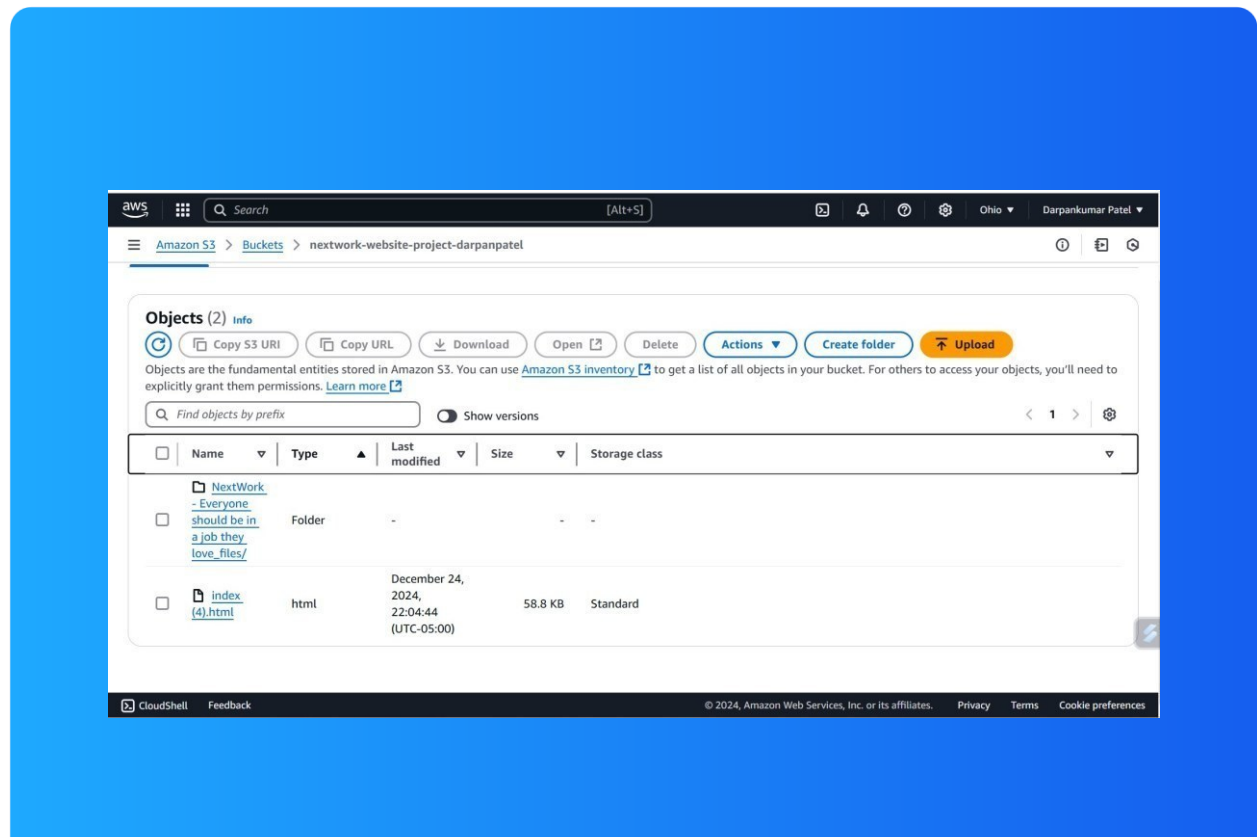
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Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were the index.html file, which serves as the main webpage, and the NextWork - Everyone_love_files.zip, which contained the images and assets needed for the website.

Both files are necessary for this project as one likely contains the static website content (e.g., HTML, CSS, JavaScript) while the other might be a configuration or asset file (like an image or a data file), both required to make the website fully functional and visually complete.





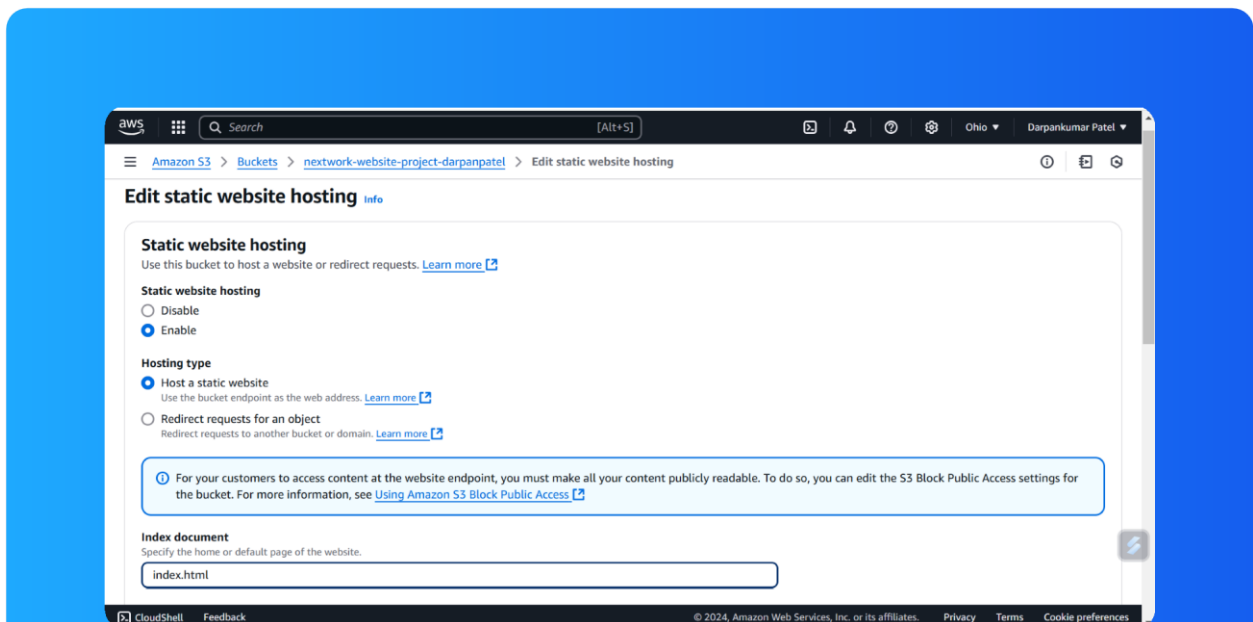
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Static Website Hosting on S3

Website hosting means providing a platform on the internet to store and serve the files that make up a website. It allows users to access the site by entering its domain name, with the hosting service managing the storage and data transfer for the website's content.

To enable website hosting in my S3 bucket, I went to the bucket's properties and enabled the "Static Website Hosting" option. I chose the "Enable" option and specified the index document (index.html) and, if necessary, an error document (error.html).

An Access Control List (ACL) is a set of rules that defines who can access and conduct specified actions on items within a resource, such as an S3 bucket. For this project, I set up ACLs to restrict access to specific objects in my S3 bucket.





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Bucket Endpoints

Once static website hosting is enabled, S3 produces a bucket endpoint URL, which is a unique web address that allows anyone to access the contents of the S3 bucket. It points to the static website hosted in the S3 bucket.

What is a bucket website endpoint URL? Start your response with 'Once static website is enabled, S3 produces a bucket endpoint URL, which is'..

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: SQMOP657Q02534FM
- HostId: pozVPYVRYrF4BkWZiET/BTPyatjuinI4BakShHYyPrH62LCdfgyotJBizge0ByOu+XLX4neT8rkLNww+SkY2pHSUZHw5rsLPUEOBN+ENRg=

Success!

To resolve this connection error, I made the files in the S3 bucket publicly accessible by updating the permissions using ACLs. This allowed the static website to be visible when accessing the bucket endpoint URL.



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Everyone should be in a job T they love II

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