Host a Website on Amazon S3

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Introducing Today's Project!

What is Amazon S3

Amazon S3 is a scalable object storage service where S3 means simple, storage and service. It is designed for storing and retrieving any amount of data at any time on the web.

How I used Amazon S3 in this project

Amazon S3 is used for static website hosting which is accessible anywhere in the world through web.

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

That we need make public the objects in the bucket even though the bucket is public.

This project took me...

Around 60 minutes.

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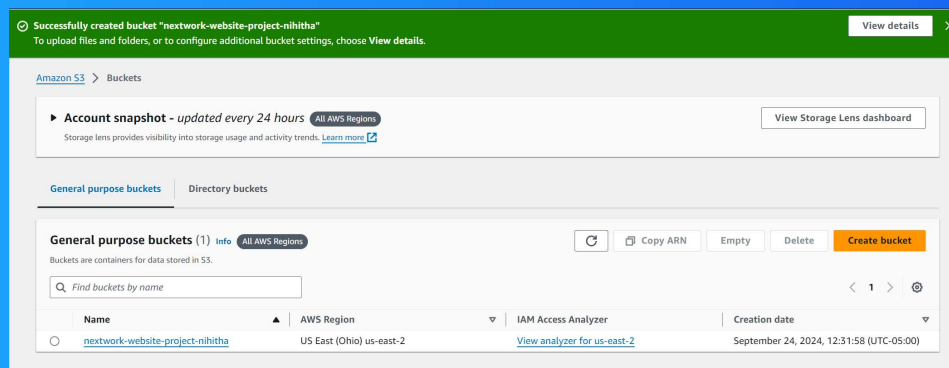NextWork Student   NextWork.org

How I Set Up an S3 Bucket

Creating an S3 bucket took me 5 minutes.

The Region I picked for my S3 bucket was US East (Ohio) because I live in the United States thats the nearest region option.

S3 bucket names are globally unique! This means no other S3 bucket in the world will have the same name until we delete the bucket.
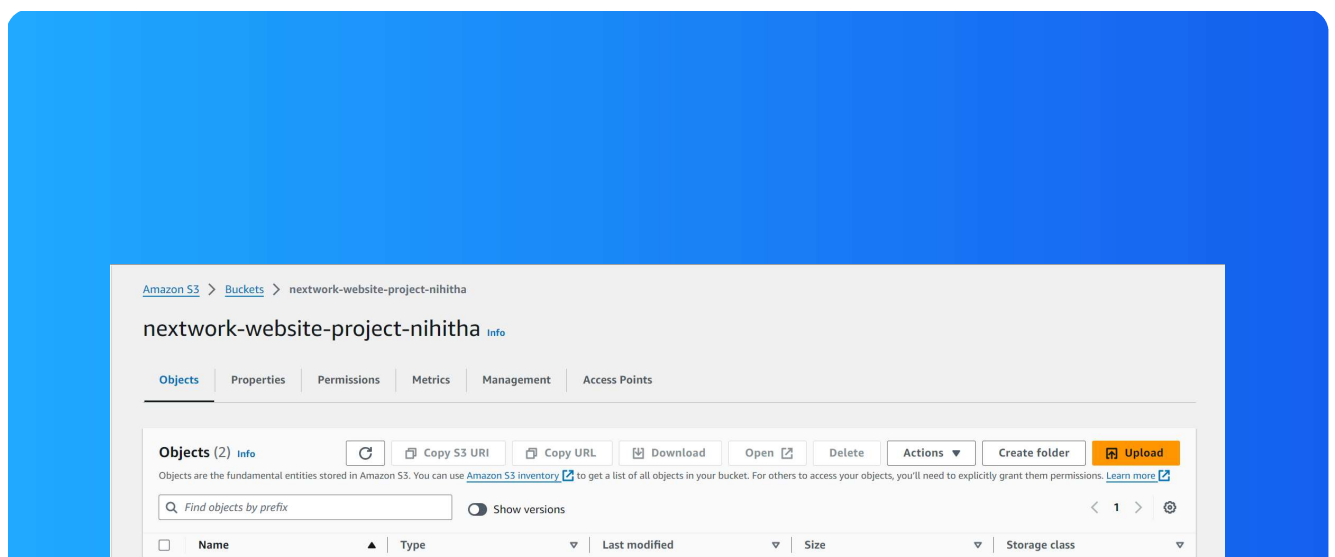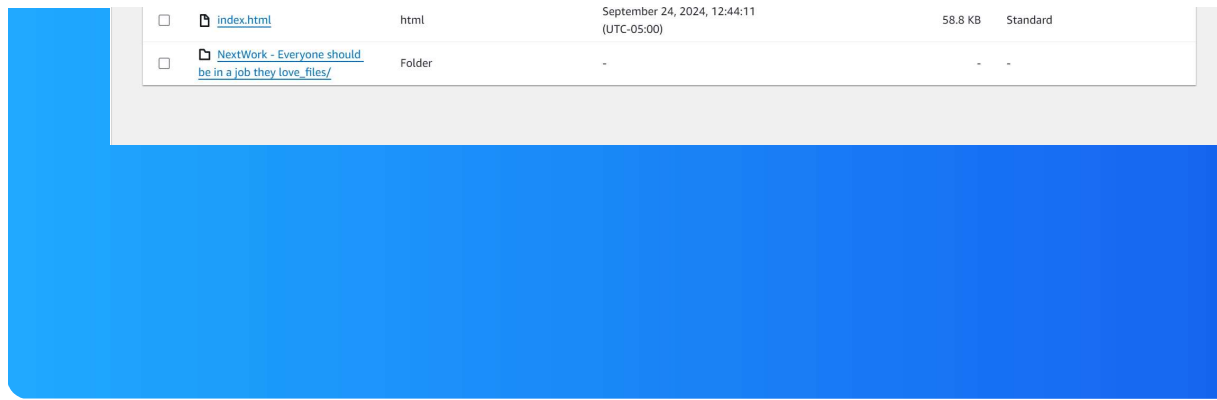
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Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were index.html and Nextwork - Everyone should be in the job they love

Both files are necessary for this project as they are related to the index.html contains images and other resources which are included in the folder.

☐ 📄 index.html	html	September 24, 2024, 12:44:11 (UTC-05:00)	58.8 KB	Standard
☐ 📁 NextWork - Everyone should be in a job they love_files/	Folder	-	-	-

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Static Website Hosting on S3

Website hosting means what makes your website public on internet

To enable website hosting with my S3 bucket, I have edited the static website hosting option to enable it, choose a hosting type - host a static website, and entered the name of the index document i.e. index.html.

Access Control Lists (ACL)

An ACL(Access Control List) is a set of rules to decide who get to access the resources. I have enabled ACLs as my website should be accessed by everyone.
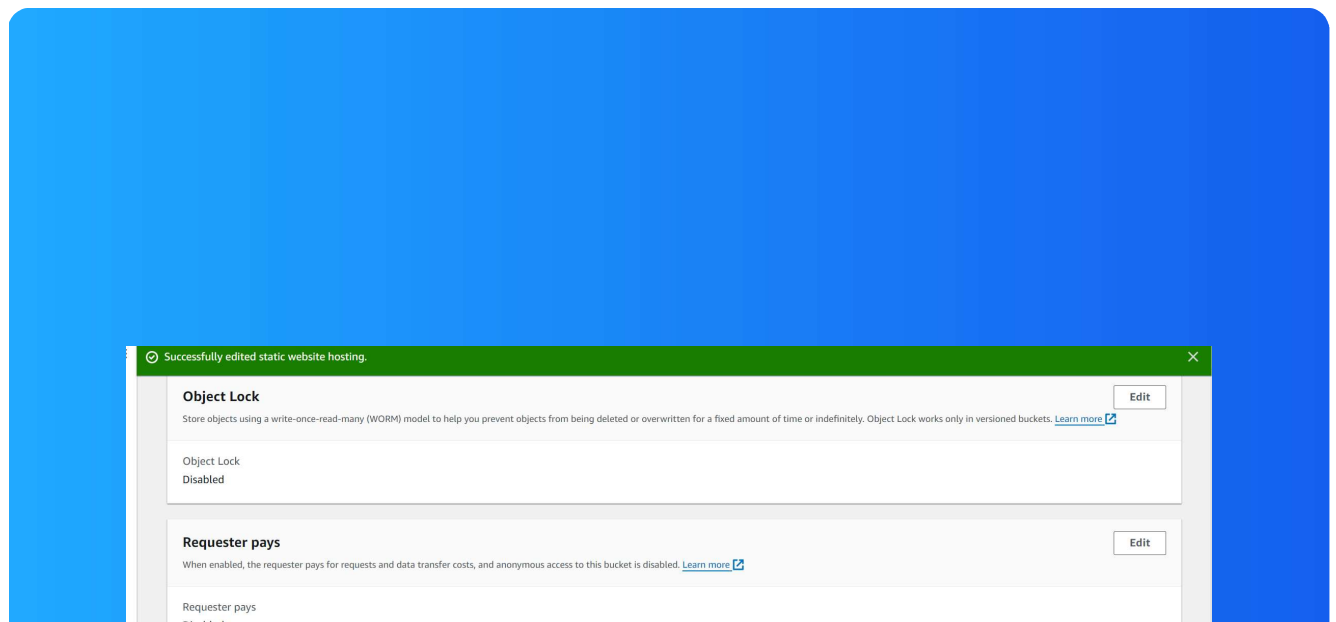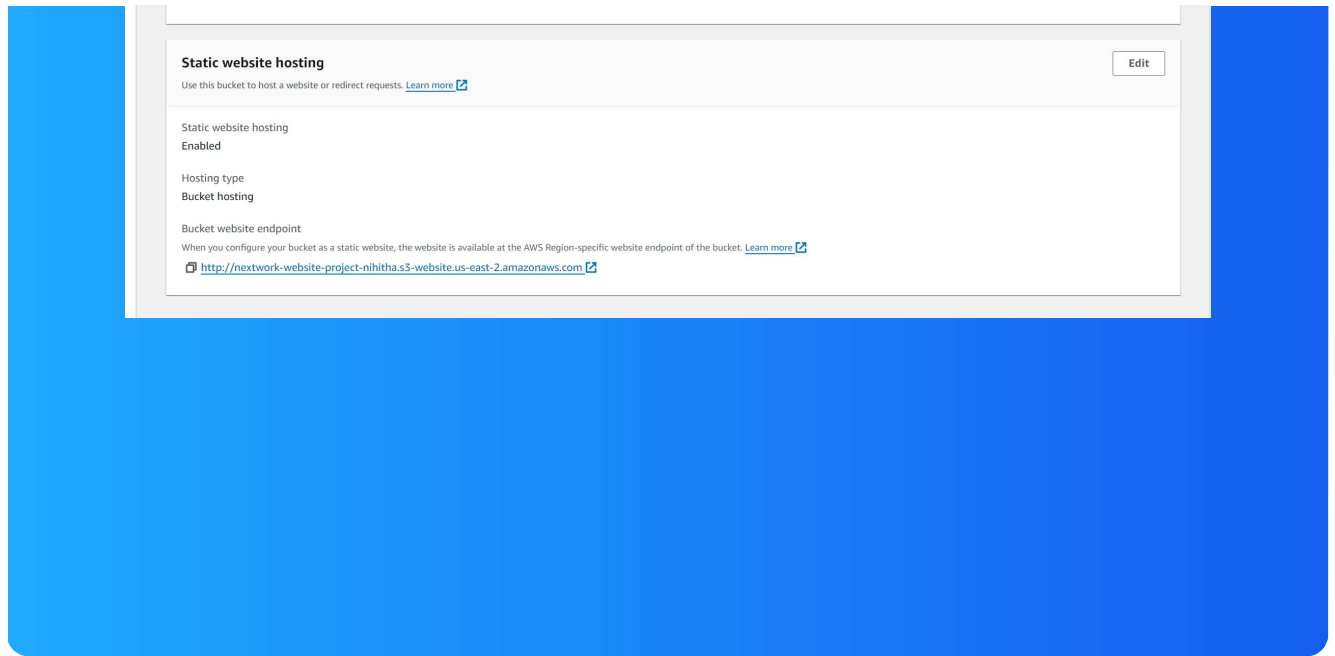
Bucket Endpoints

Once a static website is enabled, S3 produces a bucket endpoint URL, which that will take anyone to a page that displays the website.

Static website hosting

Use this bucket to host a website or redirect requests. Learn more 🔗

Static website hosting
Enabled

Hosting type
Bucket hosting

Bucket website endpoint
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. Learn more 🔗

http://nextwork-website-project-nihitha.s3-website.us-east-2.amazonaws.com 🔗

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An error!

When I first visited the bucket endpoint URL, I saw an error message saying access was denied.

The reason for this error was the objects in the bucket were still private even if the bucket was access to the public. We need to make objects also public.
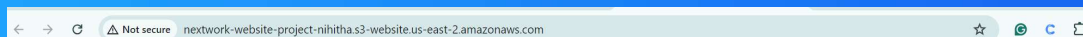
403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: R6SPY1S7KX3M5258
- HostId: vydMiMKQH1Xgg6azrYlHoN2Igit6CiVHyr3nNDbNm40mMeeHRJd8n74vSTN8gLeY0oIo2Z3rruI=

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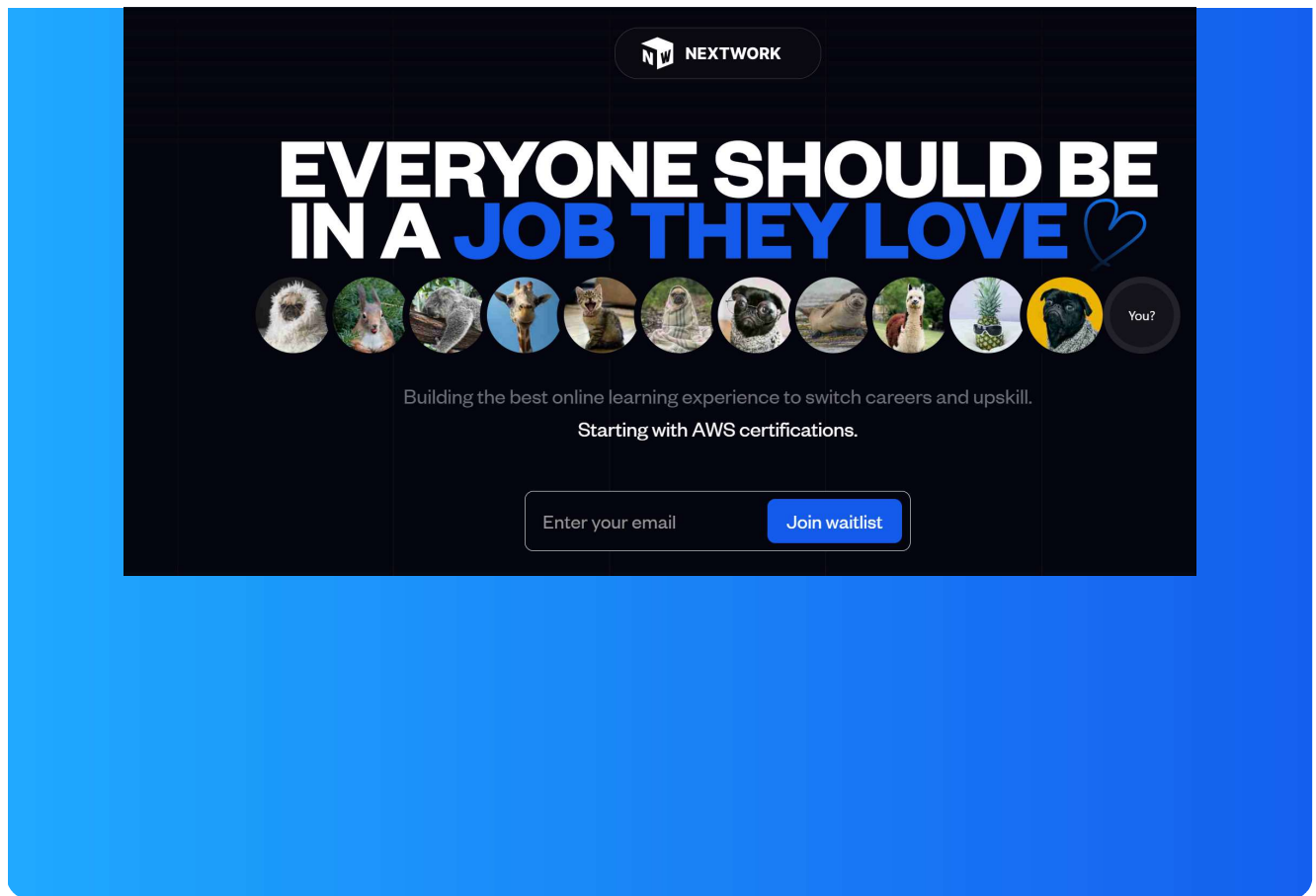NextWork Student   NextWork.org

Success!

To resolve this connection error, I have selected the objects of the bucket making public using ACLS.

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