



NextWork.org

Host a Website on Amazon S3

SA

sailavanyapudi08@gmail.com

The graphic features a large blue rectangular background. Inside, there's a white rectangular area containing a promotional graphic for "NEXTWORK". At the top right of this white area is the "NEXTWORK" logo with a small icon. Below the logo, the text "EVERYONE SHOULD BE IN A JOB THEY LOVE" is displayed, with "THEY LOVE" in blue and a blue heart icon. Below this, a row of circular profile pictures shows various animals like a sloth, a squirrel, a koala, a giraffe, a tiger, a lemur, a seal, a llama, a penguin, and a dog. To the right of the last animal is a dark circle with the text "You?". Below the profile pictures, the text "Building the best online learning experience to switch careers and upskill." and "Starting with AWS certifications." is shown. At the bottom, there are two input fields: "Enter your email" and a blue "Join waitlist" button.

Introducing Today's Project!

What is Amazon S3

Amazon S3 (Simple Storage Service) is a service provided by Amazon Web Services (AWS) that allows you to store and retrieve any amount of data, such as files, images, videos, or backups, from anywhere on the internet.

How I used Amazon S3 in this project

In today's project, I used Amazon S3 as the storage and hosting service for a static website.

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

One thing I didn't expect in this project was how simple it was to configure Amazon S3 for static website hosting, compared to traditional web hosting setups. Typically, hosting a website involves setting up servers, managing DNS configuration.

This project took me...

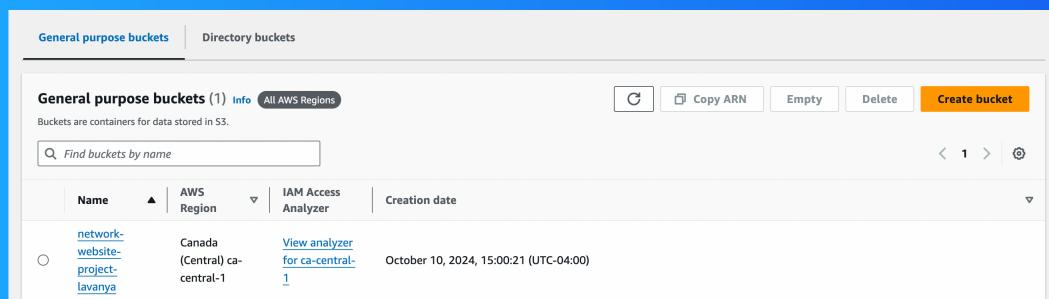
it took me 15 minutes to complete this project.

How I Set Up an S3 Bucket

Creating an S3 bucket took me just a few seconds, through which i can store a near endless amount of files in the cloud.

The Region I picked for my S3 bucket was ca-central-1 as im currently in canada this is where users or applications are located for lower latency and faster access times.

3 bucket names are globally unique! This means no other AWS account in the entire world can use your bucket's name unless you delete the bucket.

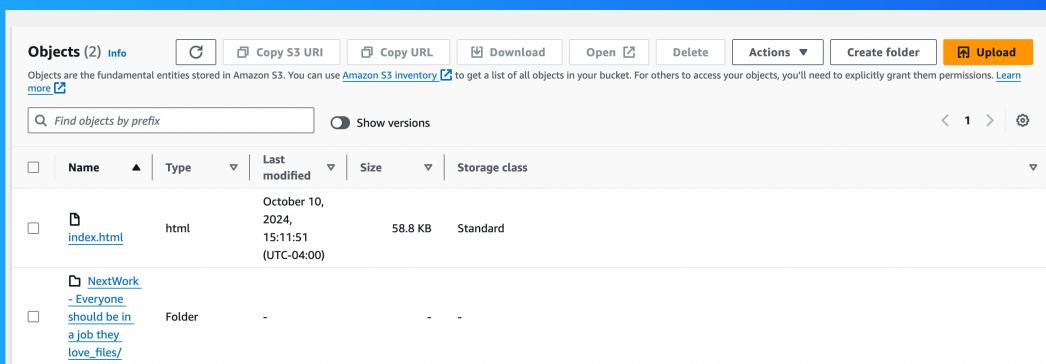


Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were an index.html file which is the web page that needs to uploaded and the other folder contains all the images for the web page.

Both files are necessary for this project as they are required for the web page design.



Static Website Hosting on S3

Website hosting means the service that allows individuals or organizations to store their website files (HTML, CSS, JavaScript, images, etc.) on a server that is accessible via the internet.

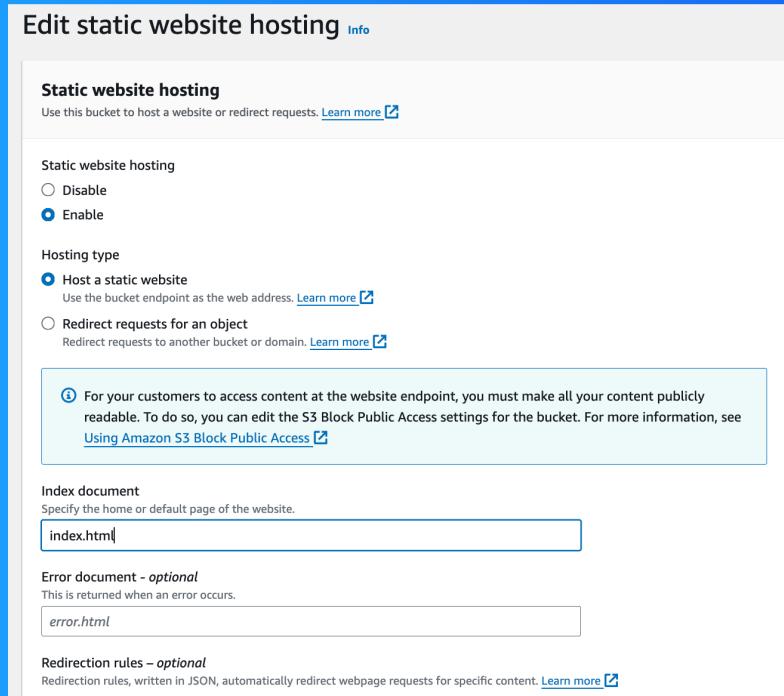
To enable website hosting with my S3 bucket, I enabled static website hosting in my bucket and gave the name of the default page of the website that i uploaded before in my bucket.

Access Control Lists (ACL)

An ACL is a set of rules that decides who can get access to a resource. My bucket contains some sensitive information so i used ACL instead of bucket policy which makes the whole bucket accessible to the public.

Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, that will take anyone to a page that displays the HTML file I just uploaded



An error!

When I first visited the bucket endpoint URL, I saw the 403 forbidden error.

The reason for this error was that your static website is being hosted by S3, but the actual HTML/image files you've uploaded are still private. It's kind of like having a bucket on display, so everyone can see the bucket - but the contents covered

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: E1E710TSMZ4HDGQ2
- HostId:
wLg6EdTIcXVR8AIZSDGHi1T/jqbGNxH1sAMfT81wdlx18x7/br1Sf89rLX0DI8FHIjLXWzYyqZU=

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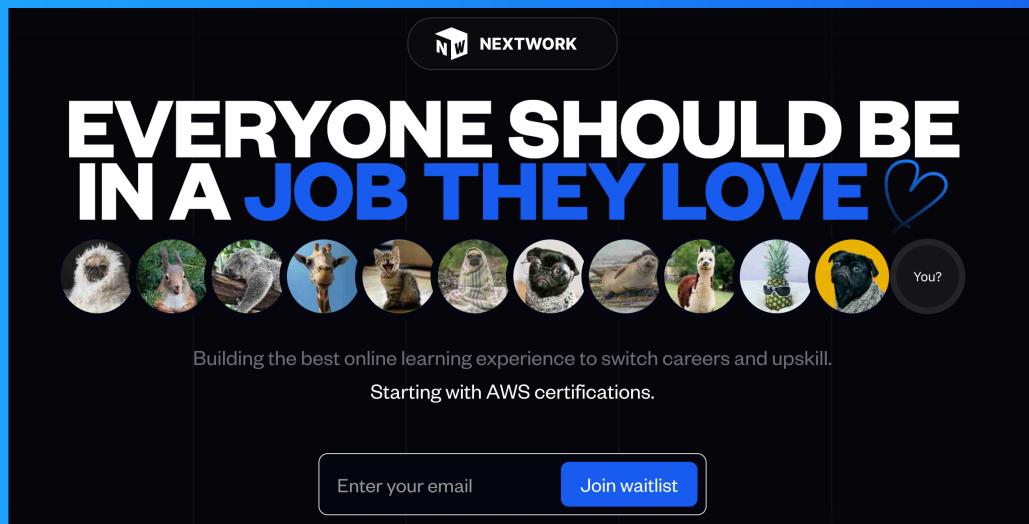
sailavanyapudi08@gmail...

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Success!

To resolve this connection error, I opened the bucket's Objects page and made the objects public using ACLs.





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