



nextwork.org

Host a Website on Amazon S3

S

sanju sanjeev

The graphic features a dark background with a grid of circular images showing various animals like a pug, a squirrel, a koala, a giraffe, a cat, a sloth, a pug, a seal, a llama, a pineapple, and a dog. Above the images, the text "EVERYONE SHOULD BE IN A JOB THEY LOVE" is displayed in large, bold letters, with "THEY LOVE" in blue and a blue heart icon. Below the images, the text "Building the best online learning experience to switch careers and upskill." and "Starting with AWS certifications." is visible. At the bottom, there is a form with the placeholder "Enter your email" and a blue button labeled "Join waitlist".

Introducing Today's Project!

Building a functional AWS S3 storage system—configured buckets, security, and static hosting. Proven ability to deploy scalable cloud storage solutions.

Tools and concepts

Services I used were Amazon S3. Key concepts I learnt include uploading Static website files, Index.html, how to create buckets and bucket endpoint urls, ACIs and how they control access to bucket's objects.

Project reflection

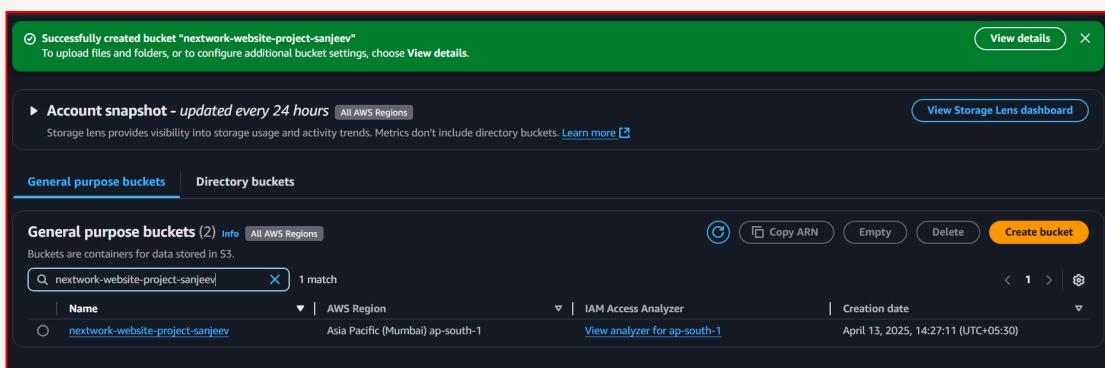
This project took me approximately 1.5hr, including learning Amazon S3 and Documenting... The most challenging part was resolving the 403 forbidden error. It was most rewarding to see our webpage load live and to see it accessible to the world.

How I Set Up an S3 Bucket

Creating an S3 bucket took me less than 10 minutes - we needed to learn a few concepts like block public access and ACLs. But once that learning is done, we can create buckets in a shorter time in future.

The Region we picked for my S3 bucket was Asia Pacific (Mumbai) because it's closest to us and it's good practice to pick the region closest to you b'coz it lowers time to retrieve your data(latency) and cost(best practice to keep).

S3 bucket names are globally unique! This means no two Amazon S3 buckets in the entire world can have the same name. They have to be completely unique, regardless of region or account ID.

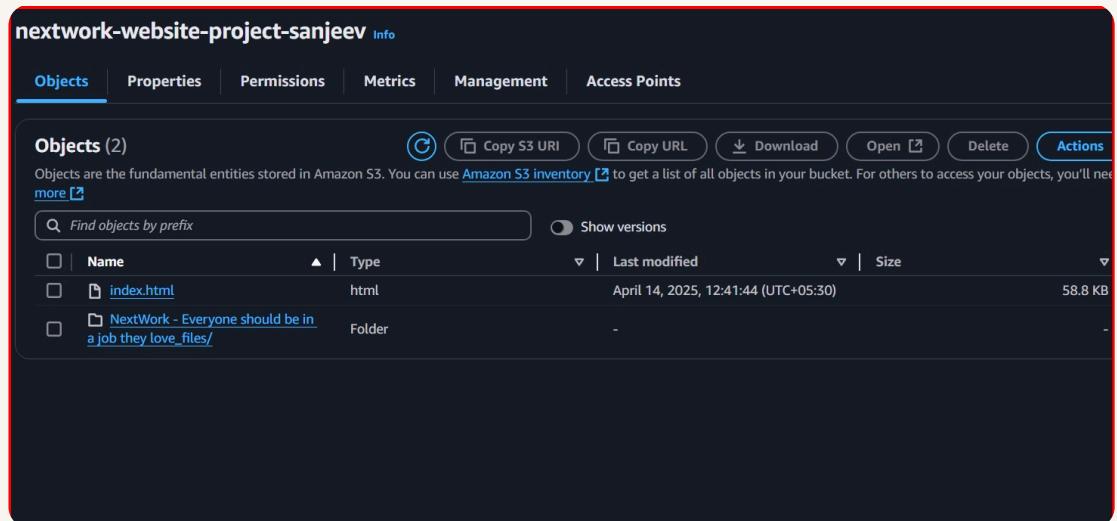


Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were an index.html and a folder of images fills inside the website and look at...

Both files are necessary for this project as index.html defines the structure, but structure alone doesn't illustrate the contents of the website. We need to supply the contents/images separately. That's why we've multiple files in the folder.

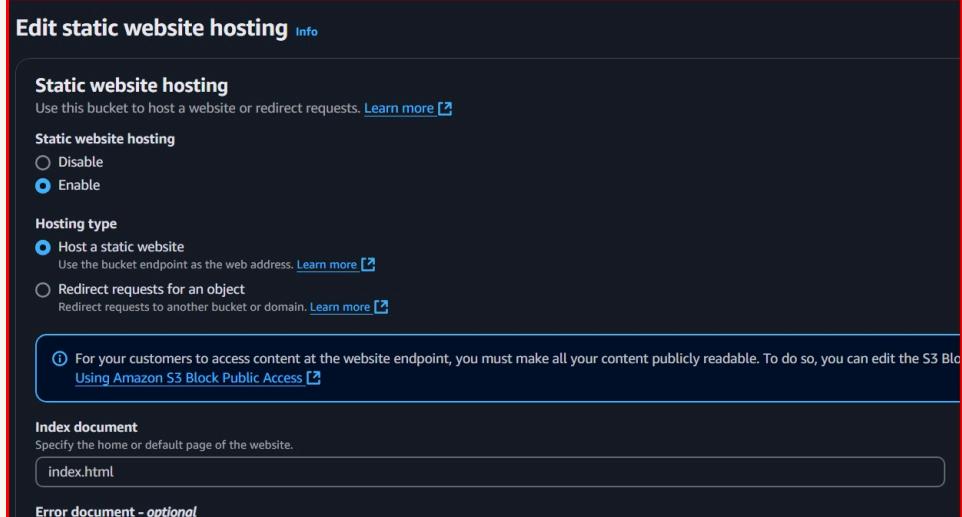


Static Website Hosting on S3

Website hosting means putting our website files on the webserver, which is a special computer designed to turn the files into a website pages that people can visit.

To enable website hosting with my S3 bucket, we go to the properties tab of our bucket, enable static website hosting and label "index.html" as the index document we trying to host.

An ACL(Access Control List) is a way to configure permission settings inside a bucket. We enabled ACL so that we can control access to our website files later. There was a pop-up meaning that AWS recommended disabling ACLs, but keep enabled to learn



Bucket Endpoints

Once the static website is enabled, S3 produces a bucket endpoint URL, which is the URL that takes you and anyone on the internet to the website that you are hosting.

When we first visited the bucket endpoint URL, we saw a 403 Forbidden error. The reason for this error was that the objects in a bucket are public by default-the website files themselves are private. we need to manage their access settings separately

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 63RRHP0A8MP511AA
- HostId: E0gLUUjHu2w3GXbvbVcAYjL8FkZZyAC1+JTx4PG6AyceSal8LCZOC9IxYza0ExV0IQb7G9G4U4=

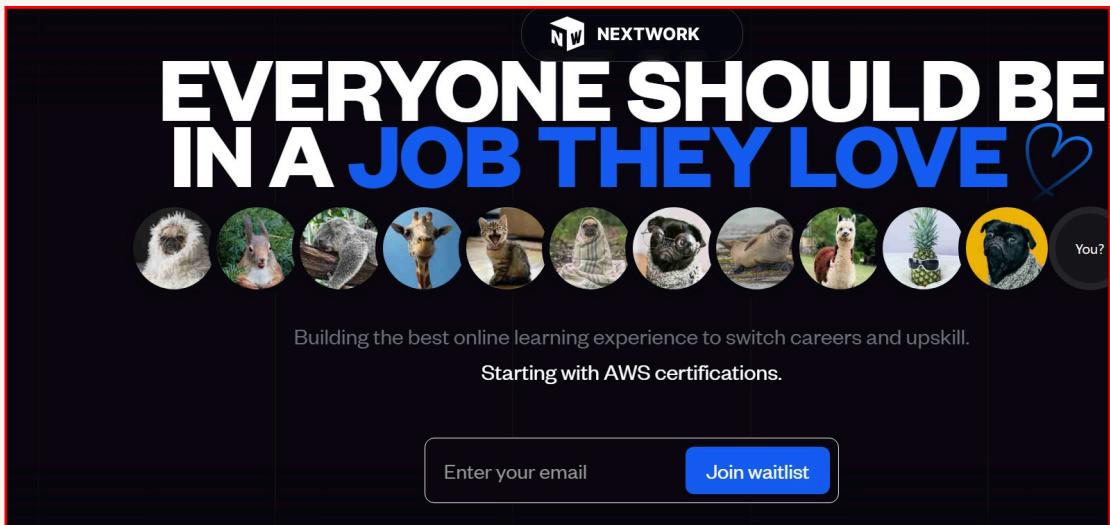
S

sanju sanjeev
NextWork Student

NextWork.org

Success!

To resolve this 403 Forbidden error, we updated the access settings of the files inside our bucket, too. Using ACLs, we made our bucket files publicly accessible. Once we checked our bucket endpoint, we can see a webpage loaded up.





NextWork.org

Everyone should be in a job they love.

Check out nextwork.org for
more projects

