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Host a Website on Amazon S3



Srushti N B

The banner features a dark background with a grid pattern. At the top, the text "EVERYONE SHOULD BE IN A JOB THEY LOVE" is displayed in large, bold, white and blue letters. A small "NW NEXTWORK" logo is visible above the word "NEXTWORK". Below the main text is a row of circular profile pictures of various animals (owl, kangaroo, koala, giraffe, tiger, owl, penguin, seal, llama, potted plant, dog) followed by a yellow circle containing a question mark and the text "You?". Underneath this row, the text "Building the best online learning experience to switch careers and upskill." and "Starting with AWS certifications." is written in smaller white font. At the bottom, there is a white input field with the placeholder "Enter your email" and a blue button labeled "Join waitlist".

Introducing Today's Project!

Hosting (which basically means make public on the Internet) a website on Amazon S3 by uploading website content into S3 and then making it publicly accessible.

Tools and concepts

Services I used were Amazon AWS S3 bucket to host static website. Key concepts I learnt include to create S3 bucket and configure it to make publicly available over internet.

Project reflection

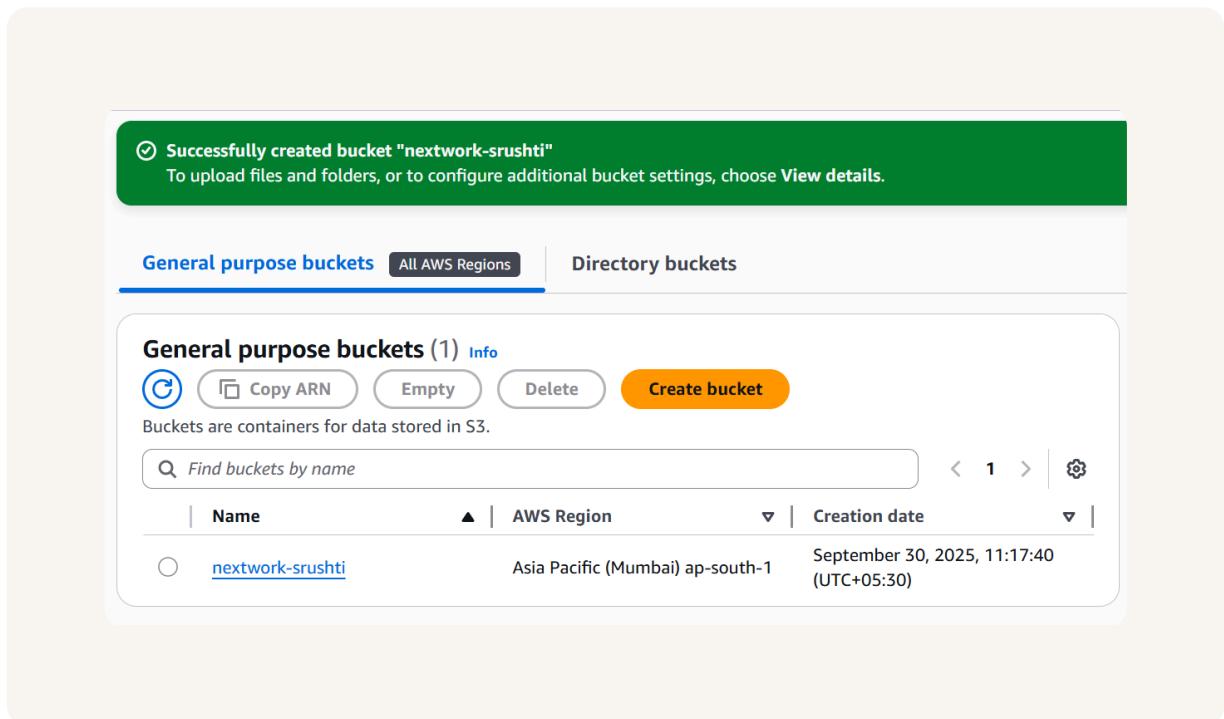
This project took me approximately 1 hour as am new to it. The most challenging part was hosting and making it publicly available as it show error if not done properly, It was most rewarding to learn and completing it !

How I Set Up an S3 Bucket

creating an S3 bucket took me 3-4 mins.

The Region I picked for my S3 bucket was ap-south-1 in asia pacific mumbai region because it is nearest one.

It means that every Amazon S3 bucket name must be unique across all AWS accounts and regions worldwide

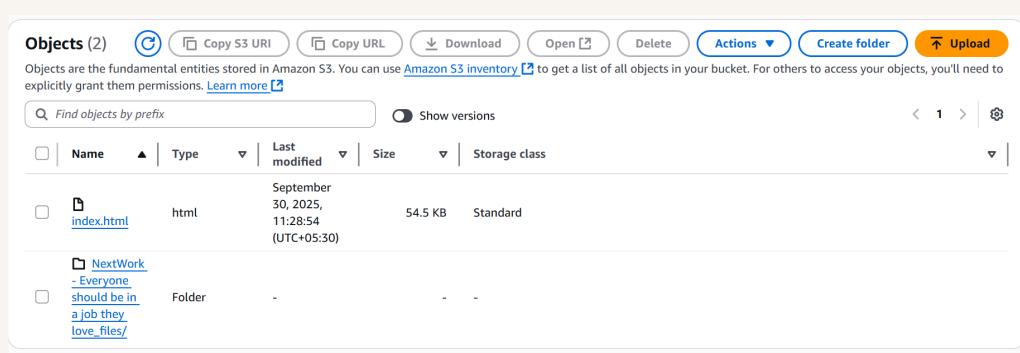


Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were index.html and NextWork - Everyone should be in a job they love_files

Both files are necessary for this project as index.html contains the structure of the page and another one Stores all the supporting files the HTML needs.



Static Website Hosting on S3

When we create and upload the files into bucket the next step is to host which means we are making our website publicaly available on the internet.

To the left of navigation bar choose general purpose bucket and click on the bucket we create then scroll all the way down where we see edit and open it we directed to edit static website hosting there we enable it.

An ACL = a set of rules that decides who can get access to a resource. Enabling ACLs in this S3 setup lets you control who can access and do things with the objects(i.e. website files) you upload into your bucket. I enabled it now to see how it works.

S

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The screenshot shows the 'Edit static website hosting' page for the bucket 'nextwork-srushti'. The top navigation bar includes 'Amazon S3 > Buckets > nextwork-srushti > Edit static website hosting'. The main content area is titled 'Index document' with the instruction 'Specify the home or default page of the website.' A text input field contains 'index.html'. Below it is an 'Error document - optional' section with the instruction 'This is returned when an error occurs.' and a text input field containing 'error.html'. At the bottom, there is a 'Redirection rules - optional' section with the instruction 'Redirection rules, written in JSON, automatically redirect webpage requests for specific content.' followed by a link 'Learn more'.

Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is just like a regular website URL. It lets people visit your S3 bucket's files as a website.

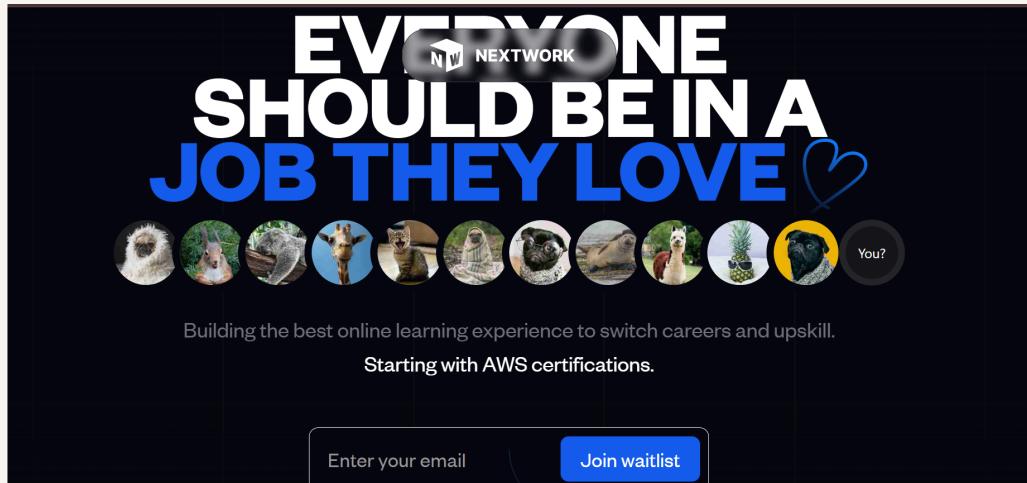
We see error message when we visit URL coz our static website being hosted by S3, but actual content HTML/image files you've uploaded are still private. It's kind of like having a bucket on display, so everyone see bucket but content is covered up.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 70M6XVAT4TRHW7BH
- HostId: ekWYxCLXSUPjFxo+1A9yBP66rIrplkc3jjbc4fXT8HhKrJCb+GCZxoKnRqz6ofIRDOcNpF9J7Gg=

Success!

To resolve this 403 Forbidden error, I headed to objects then check the both folder and files and in action click on Make public using ACL.Then do edit in static website hosting then click on URL in bucket website endpoint for succesfull page.





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