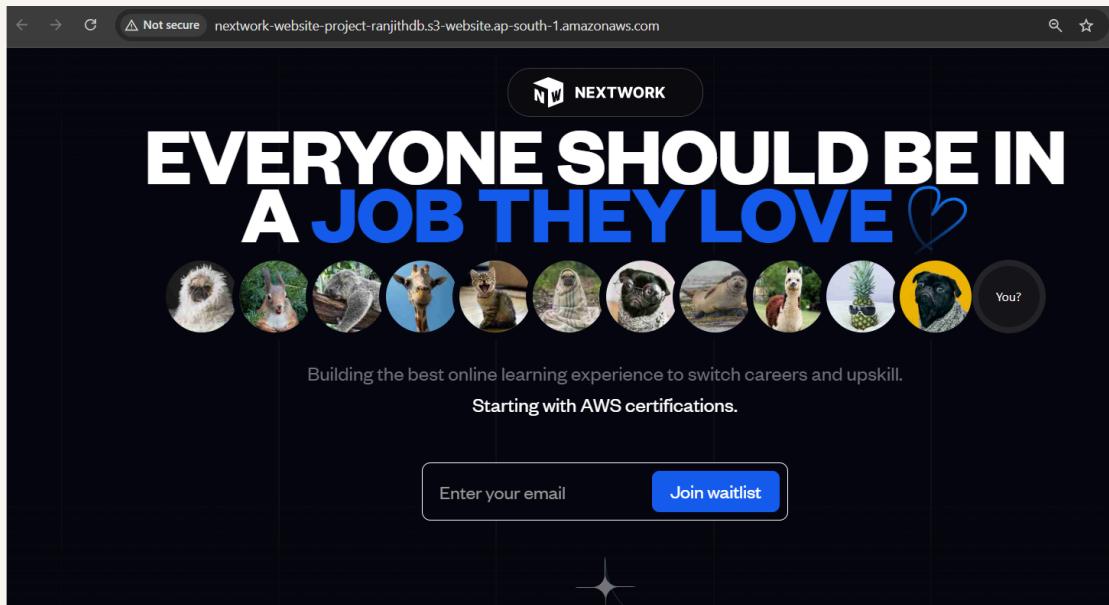


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Host a Website on Amazon S3

RA

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Introducing Today's Project!

In this project, I will demonstrate how to host a simple static webpage in aws s3. I'm doing this project to learn how to store files like images in aws s3(simple storage service)

Tools and concepts

Services I used were AWS S3 Key concepts I learnt include S3 objects, S3 bucket and ACL.

Project reflection

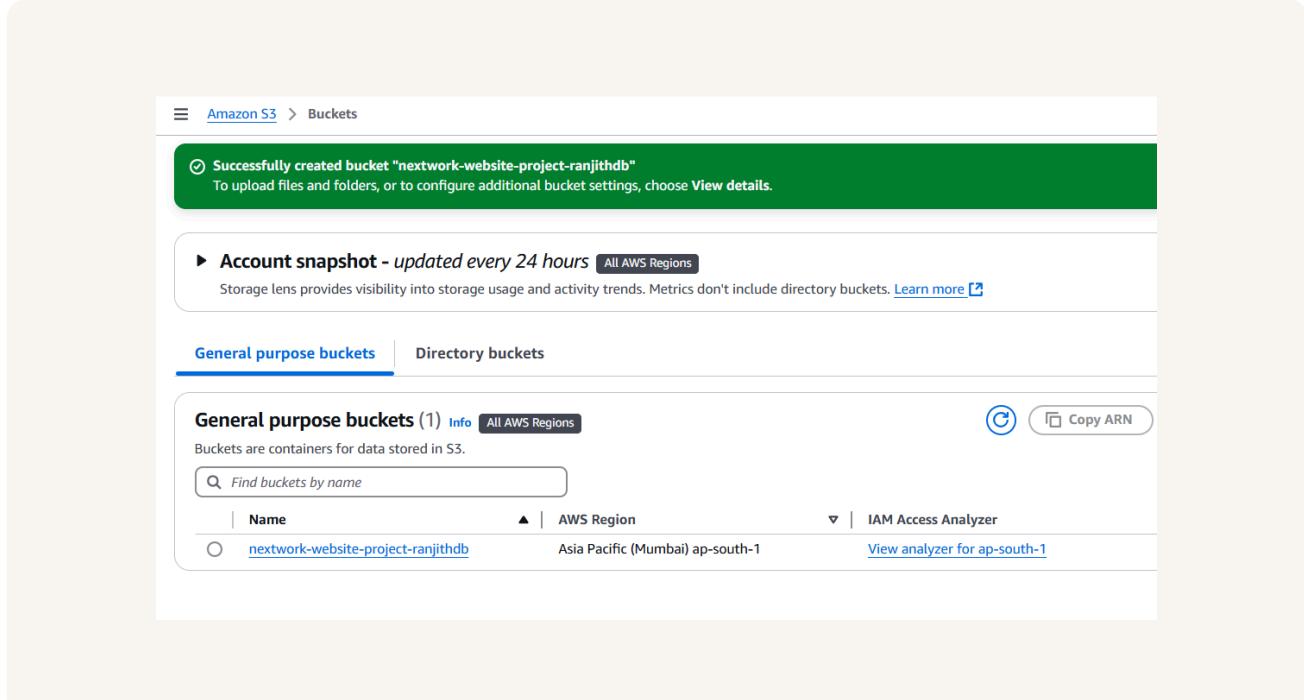
This project took me approximately 40-50 minutes. The most challenging part was troubleshooting when the website is not accessible publicly. It was most rewarding to fix the ACL permission error to make the website live.

How I Set Up an S3 Bucket

Creating an S3 bucket took me about 5-10 minutes.

The Region I picked for my S3 bucket was ap-south-1 mumbai because it is the closest one from my location.

S3 bucket names are globally unique! This means no other aws account in the entire world can have the same S3 bucket name as ours.



Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were index.html and a folder containing necessary css, javascript and image files for our static website.

Both files are necessary for this project as the html file acts as a structure of our website and css file is needed for styling.

The screenshot shows the Amazon S3 console interface. The top navigation bar includes 'Amazon S3 > Buckets > nextwork-website-project-ranjithdb'. Below the navigation is the bucket name 'nextwork-website-project-ranjithdb' with a 'Info' link. A horizontal menu bar contains tabs for 'Objects' (which is underlined in blue), 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. Under the 'Objects' tab, there is a sub-header 'Objects (2)'. To the right of this are several action buttons: a blue 'C' icon, 'Copy S3 URI', 'Copy URL', 'Download', and 'Open'. Below these buttons is a search bar with the placeholder 'Find objects by prefix'. To the right of the search bar is a 'Show versions' toggle switch. The main table lists two objects:

<input type="checkbox"/>	Name	Type	Last modified	Size
<input type="checkbox"/>	index.html	html	April 8, 2025, 10:54:21 (UTC+05:30)	-
<input type="checkbox"/>	NextWork - Everyone should be in a job they love_files/	Folder	-	-

Static Website Hosting on S3

Website hosting means making our website accessible through the internet meaning anyone can access our website.

To enable website hosting with my S3 bucket, I clicked on bucket property and enabled static web hosting with index.html as my index document.

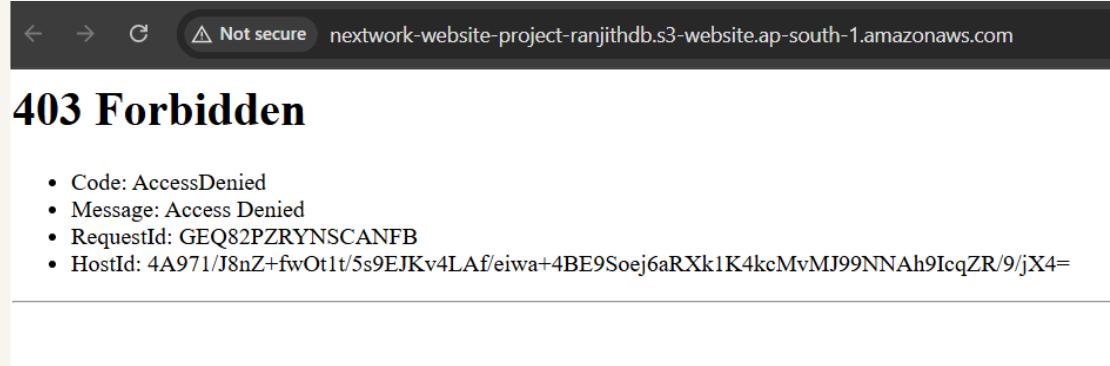
An ACL is a set of rules that decides who can get access to a resource. I enabled ACL in our S3 bucket.

The screenshot shows the 'Edit static website hosting' configuration page in the Amazon S3 console. The URL in the browser is [Amazon S3 > Buckets > nextwork-website-project-ranjithdb > Edit static website hosting](#). The page title is 'Edit static website hosting' with a 'Info' link. Under 'Static website hosting', it says 'Use this bucket to host a website or redirect requests.' with a 'Learn more' link. The 'Static website hosting' dropdown is set to 'Enable'. Under 'Hosting type', the 'Host a static website' option is selected, with a note: 'Use the bucket endpoint as the web address.' and a 'Learn more' link. The 'Redirect requests for an object' option is also listed. A callout box highlights the note: 'For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access' with a 'Amazon S3 Block Public Access' link. Under 'Index document', it says 'Specify the home or default page of the website.' with a text input field containing 'index.html'.

Bucket Endpoints

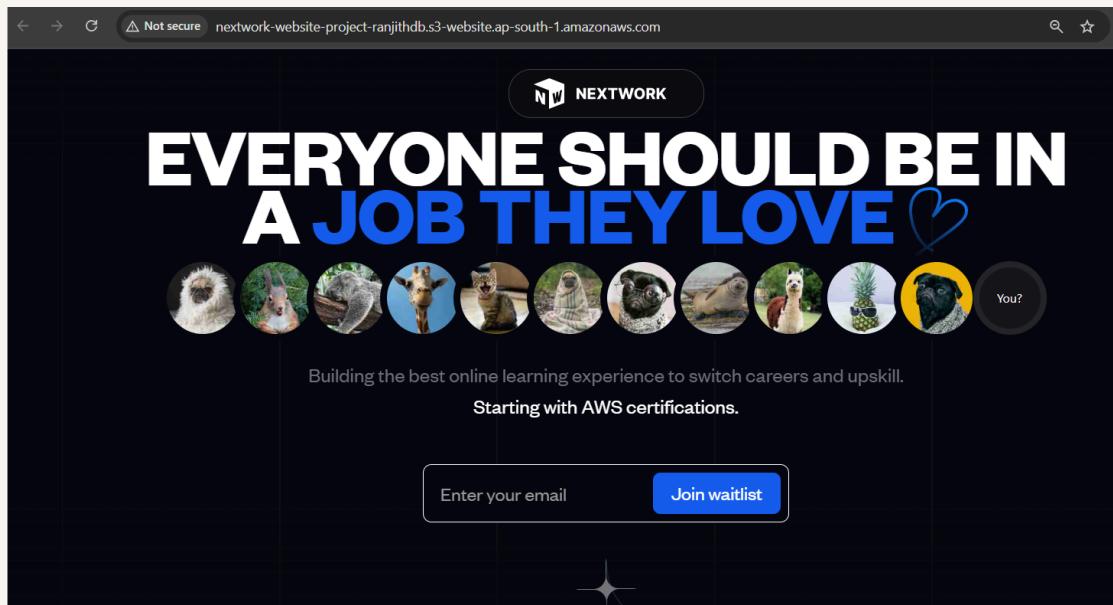
Once static website is enabled, S3 produces a bucket endpoint URL, which is a regular url that lets people view our bucket as website.

When I first visited the bucket endpoint URL, I saw an access denied error. The reason for this error was by default anything we upload to S3 bucket is private so noone can access it.



Success!

To resolve this 403 Forbidden error, I selected the checkboxes next to index.html file and the folder of website assets. In the Actions dropdown, click Make public using ACL. Click make public.





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