

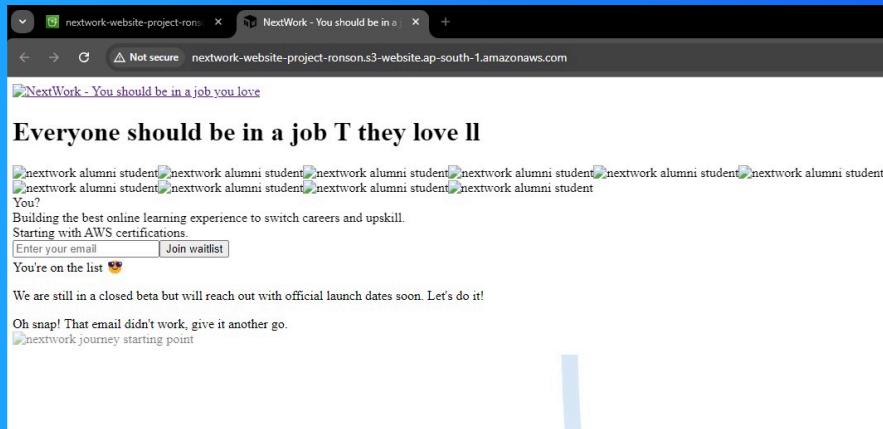


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Host a Website on Amazon S3



Ronson Lobo





Introducing Today's Project!

What is Amazon S3

Amazon S3 is a service AWS provides to store objects in bucket and access it later. It provides Data Availability security and performance

How I used Amazon S3 in this project

I used S3 AWS service to host a Static website that can be accessed and visible publicly without any error. S3 Allows to store and retrieve objects via Static website hosting

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

I wasn't expecting and error

This project took me...

I was able to complete this project in 30 minutes of time with the available guidance here



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How I Set Up an S3 Bucket

I was able to create a S3 Bucket within no time as i had a hands-on of creating a bucket

The region i picked for my S3 bucket was because AP south zone is the nearest zone available in Asia pacific

S3 bucket names are globally unique! Bucket name must be unique within the global namespace and follow the bucket naming rules. S3 Bucket names are totally unique and they shouldn't be same all around the AWS console

The screenshot shows the AWS S3 Buckets page. At the top, there's a header with the Amazon S3 logo and a breadcrumb trail: Amazon S3 > Buckets. Below the header, there's an account snapshot section with an update frequency of 'updated every 24 hours' and a link to 'All AWS Regions'. A 'View Storage Lens dashboard' button is also present. The main content area is divided into two tabs: 'General purpose buckets' (selected) and 'Directory buckets'. Under the 'General purpose buckets' tab, there's a sub-header 'General purpose buckets (1) Info All AWS Regions' and a note that buckets are containers for data stored in S3. A search bar labeled 'Find buckets by name' is available. To the right of the search bar are buttons for 'Create bucket' (orange), 'Copy ARN', 'Empty', and 'Delete'. A table lists the single bucket: 'Name' (nextwork-website-project-ronson), 'AWS Region' (Asia Pacific (Mumbai) ap-south-1), 'IAM Access Analyzer' (link to view analyzer for ap-south-1), and 'Creation date' (September 19, 2024, 02:37:41 (UTC+05:30)).



Upload Website Files to S3

index.html and image assets

I had uploaded Index and resource folder

Both files are necessary for this project as the website can visible as the code is mentioned in HTML file and folder with objects consist of raw data and objects of that HTML file

The screenshot shows the AWS S3 console interface for the bucket 'nextwork-website-project-ronson'. The 'Objects' tab is selected. There are two items listed:

Name	Type	Last modified	Size	Storage class
index.html	html	September 19, 2024, 02:39:52 (UTC+05:30)	58.8 KB	Standard
NextWork - Everyone should be in a job they love_files/	Folder	-	-	-



Static Website Hosting on S3

When a hosting provider allocates space on a web server for a website to store its files, they are hosting a website. Web hosting makes the files that comprise a website (code, images, etc.) available for viewing online.

To enable website hosting with my S3 bucket, you need to enable the static website hosting permission of the S3 Bucket

Access Control Lists (ACL)

An access control list (ACL) is a set of rules that controls access to a computer system or network. I enabled the ACL to grant access to the objects

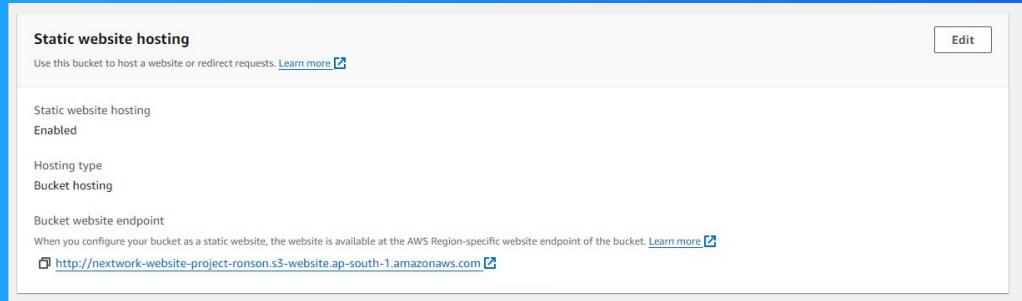


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Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL which is available for the user to access publicly. A URL (Uniform Resource Locator) is the address of a unique resource on the internet.



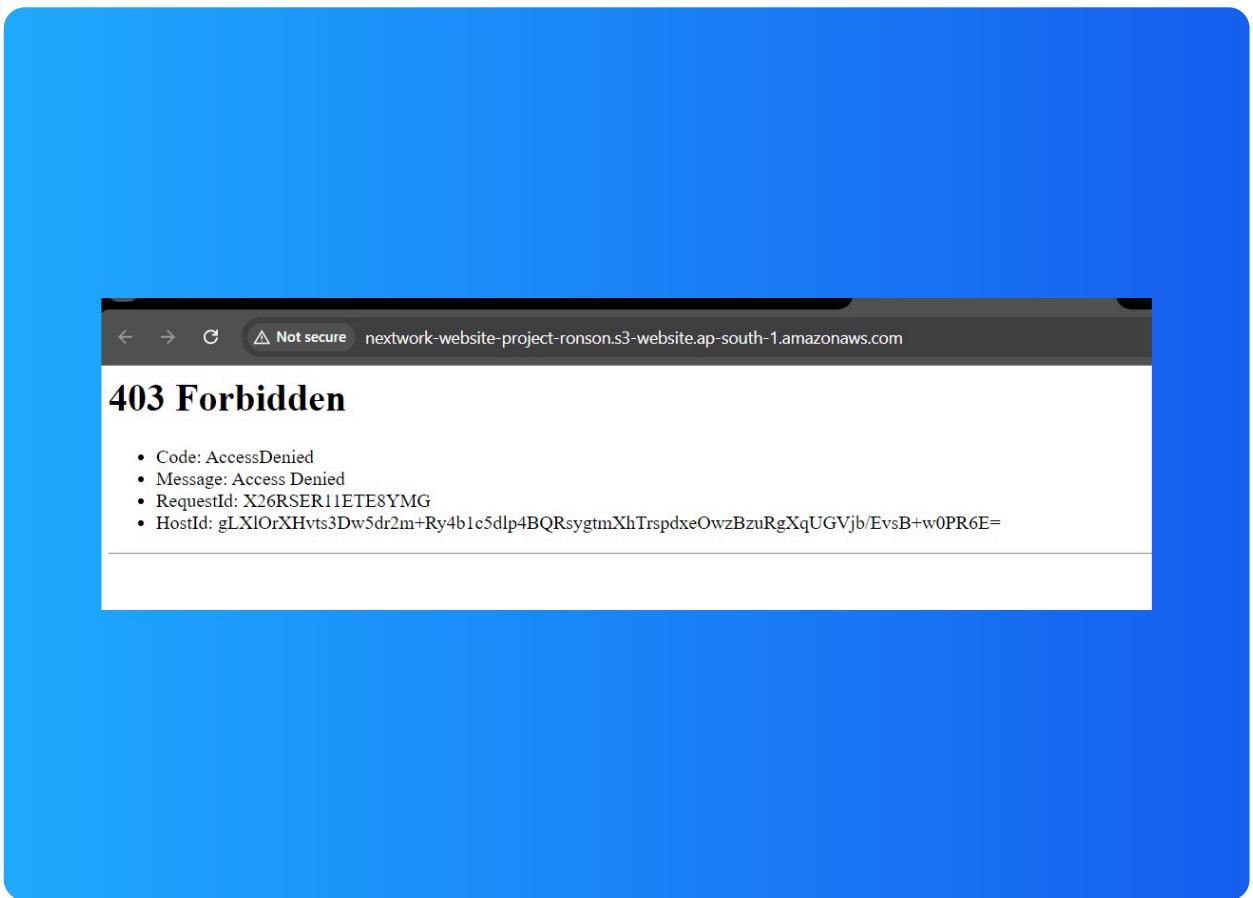
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An error!

When i visited the website first using the bucket endpoint URL i was able to get a 403 error as the objects were not accessed publicly

The reason for this error was the ACL was not enabled that means this objects were not publicly available to access



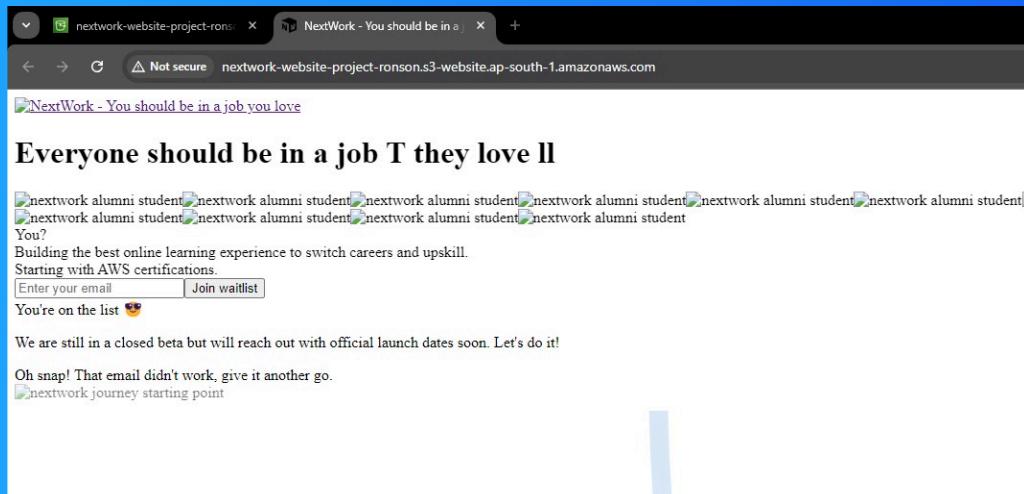


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Success!

To resolved the connection error i needed to enable Control ownership of objects and click on ACL enabled





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