

nextwork.org

Host a Website on Amazon S3



Wachiraya Meevasana (Tanny)

EVERYONE
NEXTWORK
SHOULD BE IN A
JOB THEY LOVE

Building the best online learning experience to switch careers and upskill.
Starting with AWS certifications.

Enter your email

Join waitlist



Wachiraya Meevasana (T...)

NextWork Student

NextWork.org

Introducing Today's Project!

In this project, I will create S3 bucket to store pictures and files for my own website. I'm doing this project to manage cloud storage, configure permissions and access policies, and integrate S3 with a web application.

Tools and concepts

Services I used were S3 and static web hosting. Key concepts I learnt include set up HTML, website in my S3 and make it available to the public by configuring ACL

Project reflection

This project took me approximately 20 mins. The most challenging part was making HTML readable. It was most rewarding to see my first website !



How I Set Up an S3 Bucket

Creating an S3 bucket took me 5 sec !

The Region I picked for my S3 bucket was N. California because it is closer to my location.

S3 bucket names are globally unique! This means no other AWS account in the entire world can use my bucket's name

The screenshot shows the AWS S3 Buckets page. At the top, there is a green success message: "Successfully created bucket 'tannys3bucket'. To upload files and folders, or to configure additional bucket settings, choose View details." Below this, there is a note about Storage lens: "Storage lens provides visibility into storage usage and activity trends. Metrics don't include directory buckets. [Learn more](#)".

The main table displays "General purpose buckets (1) [Info](#) All AWS Regions". The table has columns for Name, AWS Region, IAM Access Analyzer, and Creation date. One row is shown, with the Name being "tannys3bucket", AWS Region being "US West (N. California) us-west-1", and Creation date being "April 4, 2025, 12:51:11 (UTC-07:00)".

At the bottom of the page, there are links for CloudShell, Feedback, and a copyright notice: "© 2025, Amazon Web Services, Inc. or its affiliates." There are also links for Privacy, Terms, and Cookie preferences.



Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were HTML and .zip file

Both files are necessary for this project as a blueprint to my website

The screenshot shows the AWS S3 console interface. At the top, there's a navigation bar with the AWS logo, a search bar, and account information for 'United States (N. California)' and 'TannyAWS'. Below the navigation bar, the path 'Amazon S3 > Buckets > tannys3bucket' is displayed. The main area is titled 'Objects' and shows a list of two objects:

Name	Type	Last modified	Size	Storage class
index.html	html	April 4, 2025, 15:15:13 (UTC-07:00)	58.8 KB	Standard
NextWork - Everyone should be in a job they love_files/	Folder	-	-	-

Below the table, there are buttons for 'Actions' (with options like Copy S3 URI, Copy URL, Download, Open, Delete, Create folder, and Upload), a search bar, and pagination controls.



Static Website Hosting on S3

Website hosting means to make my website public on the internet.

To enable website hosting with my S3 bucket, I enable static web hosting in S3

An ACL is a set of rules that decides who can get access to a resource and I enabled ACL for my bucket as I can control who can access and do things with the objects.

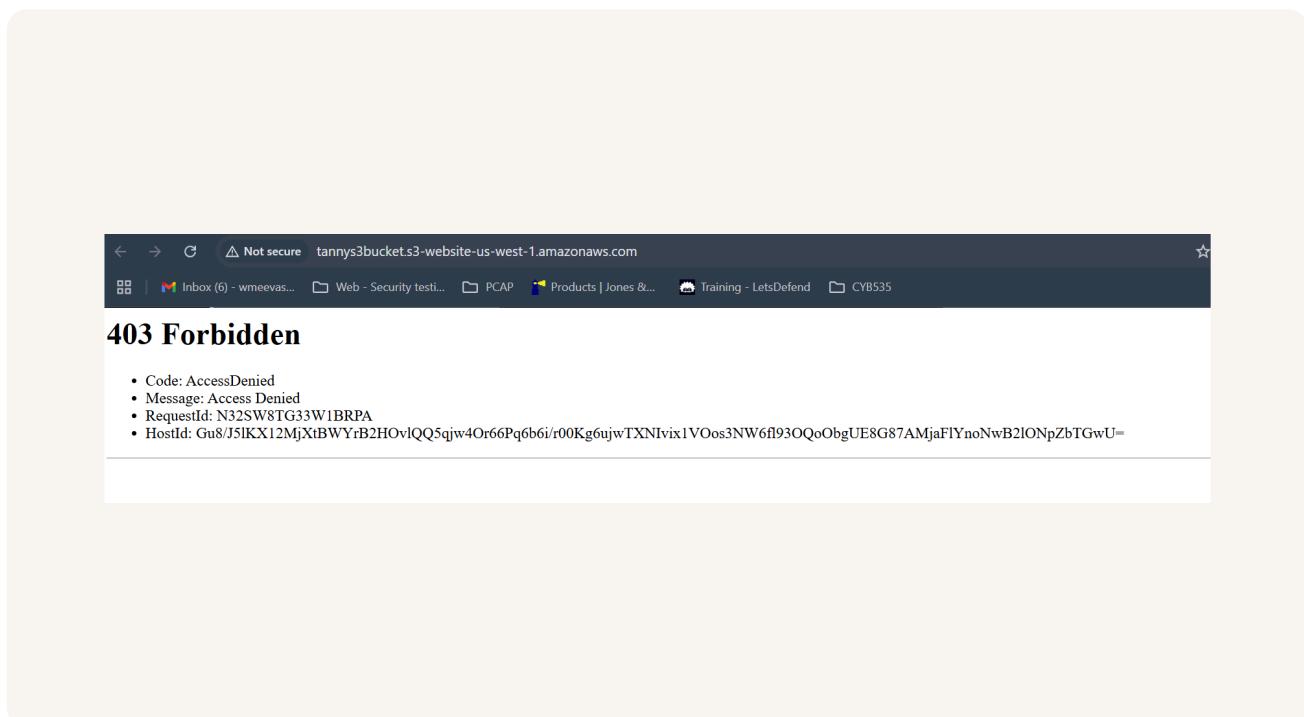
The screenshot shows the AWS S3 console with the 'Edit static website hosting' configuration for the 'tanney3bucket'. The 'Hosting type' section is set to 'Host a static website'. A note indicates that all content must be publicly readable. The 'Index document' field is set to 'index.html'. The 'Error document - optional' field is set to 'error.html'. There are sections for 'Redirection rules - optional' and 'Custom headers - optional' which are currently empty.



Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is a regular website URL that lets people visit my S3 bucket's files as a website.

When I first visited the bucket endpoint URL, I saw Error Message 403 - Forbidden. The reason for this error was the contents/objects are private by default, preventing anyone from seeing what's inside.





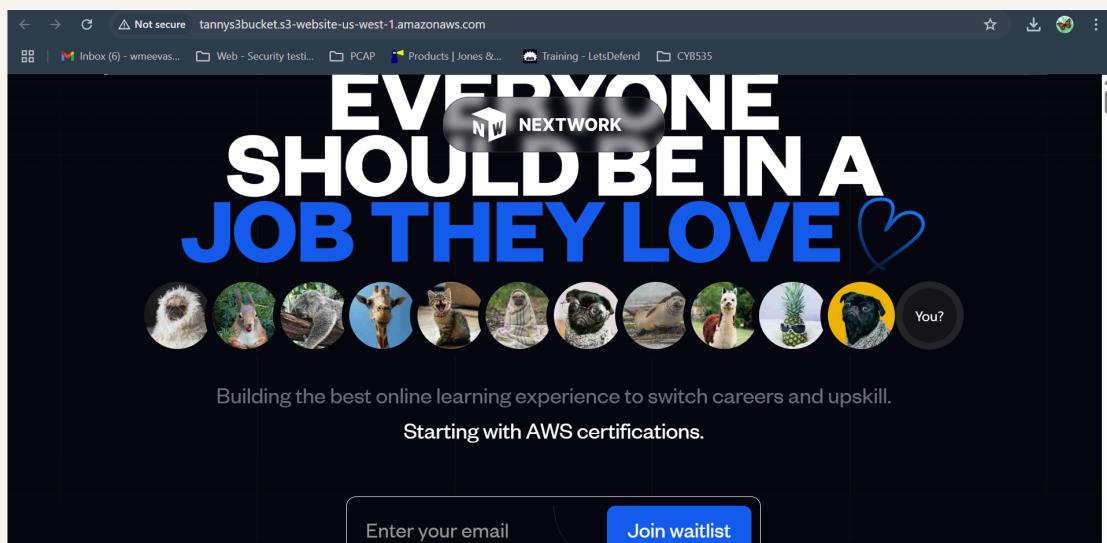
Wachiraya Meevasana (T...)

NextWork Student

[NextWork.org](https://www.nextwork.org)

Success!

To resolve this 403 Forbidden error, I make my objects public using ACL





NextWork.org

Everyone should be in a job they love.

Check out nextwork.org for
more projects

