

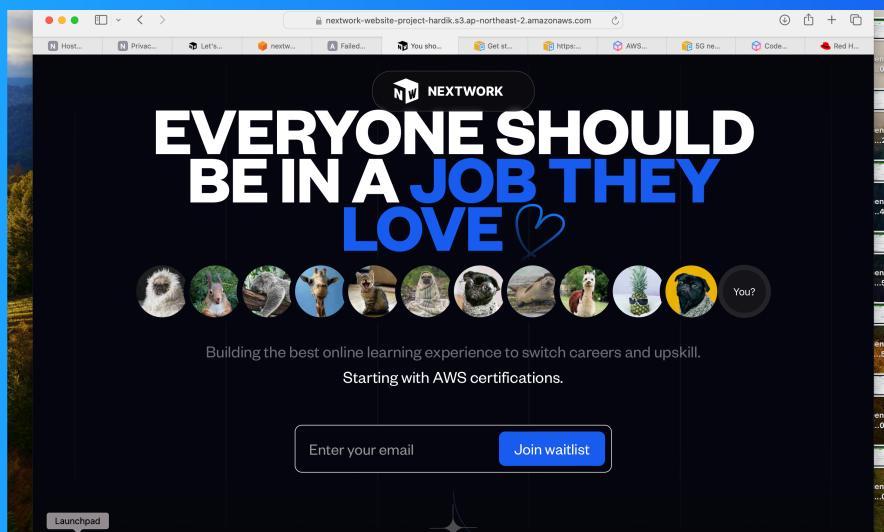


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# Host a Website on Amazon S3



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# Introducing Today's Project!

## What is Amazon S3

S3 is a software-defined storage service that uses AWS and Microservices Architecture to develop and deliver data center storage systems.

## How I used Amazon S3 in this project

In order to host a static website on a portal, S3bucket is used to store all the HTML DOM pages and folders for image storage. The website is rendered in a browser when developers use the S3 hosting service. It renders all HTML elements in browser.

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

I am not expecting that I required to set ACL configuration.

## This project took me...

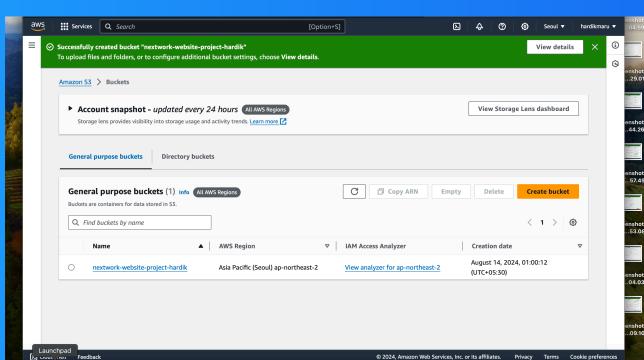
10 minutes, If you rent server for the web hosting it cost you more.

# How I Set Up an S3 Bucket

It takes few seconds to create S3 bucket. Also depends on availability zones.

Asia Pacific (Seoul) ap-northeast-2

Bucket name in the storage rack in specific region must be unique. Because amazon provides virtual storage provision as S3 from their own hardware private storage system.





# Upload Website Files to S3

## index.html and image assets

S3 bucket is like shared storage but it has cloud enable features. In addition S3 bucket has more capability by utilizing the Microservices Architecture for the storage. Simply it's software-defined storage service. Red Hat OpenStack use Ceph Storage.

One having the Image which browser renders in the DOM. Another end image folder stores each images in one single folder storage in web server. Image automatically renders on defined path of the image in HTML DOM structure.

The screenshot shows the AWS S3 console interface. At the top, there is a green success message: "Upload succeeded View details below.". Below this, there are two tabs: "Files and folders" (which is selected) and "Configuration". Under "Files and folders", there is a table titled "Files and folders (44 Total, 2.7 MB)". The table includes columns for Name, Folder, Type, Size, Status, and Error. The table lists several files and folders, including "index.html", "analytics.min.js", "8.jpg", and "css". All files listed have a status of "Succeeded". The bottom of the screen shows the standard AWS navigation bar with links for Launchpad, CloudWatch, Feedback, and other services.

Name	Folder	Type	Size	Status	Error
65a83ef04d8d012093...	NextWork - Everyone s...	image/svg+xml	1.3 KB	Succeeded	-
65a8757a23f97aca62...	NextWork - Everyone s...	image/svg+xml	6.8 KB	Succeeded	-
65af1f6bba0db0c46d...	NextWork - Everyone s...	image/svg+xml	3.8 KB	Succeeded	-
recaptcha_en.js	NextWork - Everyone s...	application/x-javascript	499.3 KB	Succeeded	-
65b189d3d4c1b1f656...	NextWork - Everyone s...	image/svg+xml	368.0 B	Succeeded	-
6571371f7fbfa83119...	NextWork - Everyone s...	image/svg+xml	3.7 KB	Succeeded	-
index.html	NextWork - Everyone s...	text/html	4.4 KB	Succeeded	-
analytics.min.js	NextWork - Everyone s...	application/x-javascript	109.6 KB	Succeeded	-
8.jpg	NextWork - Everyone s...	image/jpeg	5.0 KB	Succeeded	-
css	NextWork - Everyone s...	-	13.5 KB	Succeeded	-



# Static Website Hosting on S3

Host your HTML DOM on the web server. It might be apache or any other service vendors who provides request and response using the programming logics.

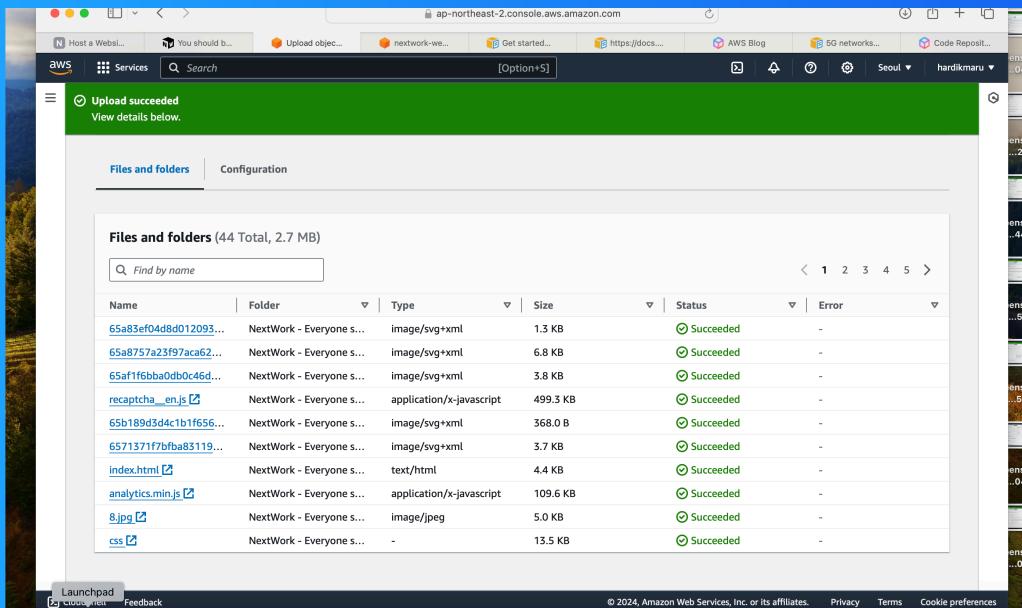
There is web hosting on S3. Developer needs to enable the website hosting on S3 services.

## Access Control Lists (ACL)

ACL means admin set specific permissions to specific user to access features of the system. It set user driven and OS or system drive access controls.

# Bucket Endpoints

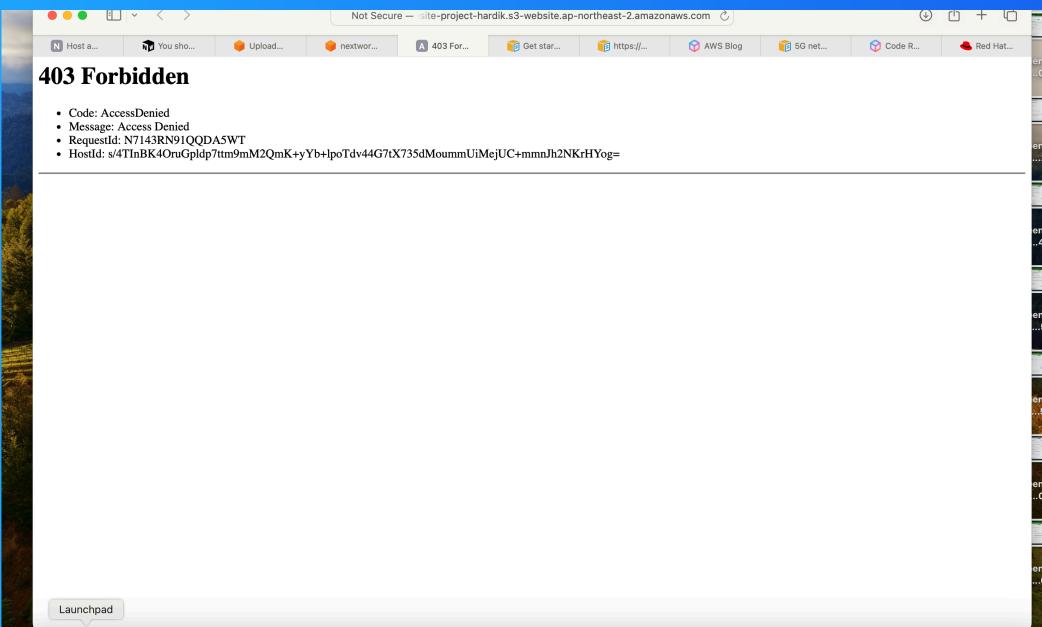
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket.



# An error!

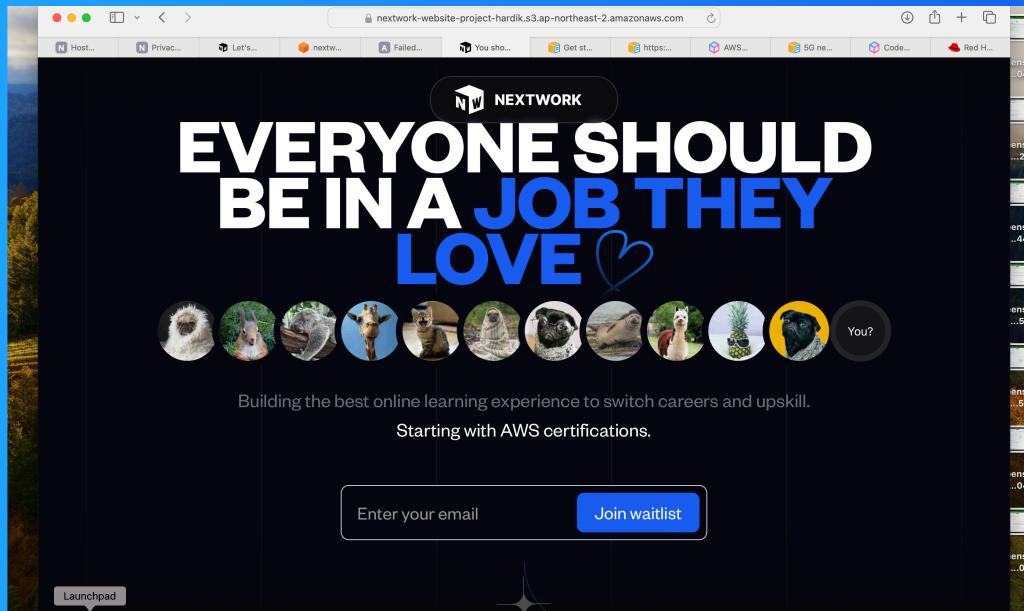
The HTTP 403 Forbidden client error response status code indicates that the server understood the request but refused to process it. This status is similar to 401.

It's a response error. Client not getting any response from the hosting server or S3 service.



# Success!

At the first end default bucket policy in AWS, developer needs to give public access to the web application. That makes huge impact. You can make change using the ACL and their controls.





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