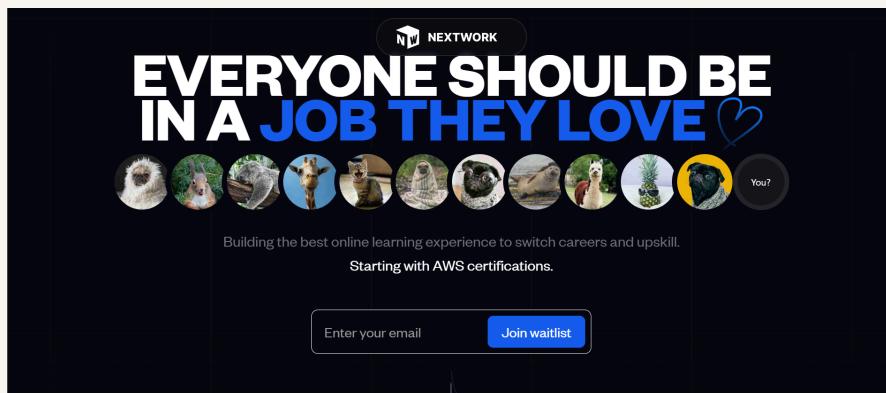




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# Host a Website on Amazon S3

 Ece Pelin



The graphic features a dark background with a grid of small circular images showing various animals like owls, squirrels, giraffes, and cats. At the top, the text "EVERYONE SHOULD BE IN A JOB THEY LOVE" is displayed in large, bold, white and blue letters, with a blue heart icon next to the word "LOVE". Below the grid, the text "NEXTWORK" is written in a smaller, white, sans-serif font. Underneath the main title, there is a subtitle: "Building the best online learning experience to switch careers and upskill. Starting with AWS certifications." At the bottom, there is a call-to-action button with the text "Enter your email" and a blue "Join waitlist" button.



# Introducing Today's Project!

## What is Amazon S3

Amazon S3 (Simple Storage Service) is a scalable, secure, and durable cloud storage service for storing and retrieving data anytime. It's useful for backup, website hosting, big data analytics, and content distribution, offering high availability.

## How I used Amazon S3 in this project

I used Amazon S3 in today's project to host a website. I uploaded two files and enabled \*\*ACLs\*\* to control access permissions. This setup ensures secure and scalable storage.

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

One thing I didn't expect in this project was that Amazon S3 doesn't support server-side rendering or dynamic content—it only serves static files. I had to adjust my approach to ensure my website worked properly with just HTML, CSS, JavaScript.

## This project took me...

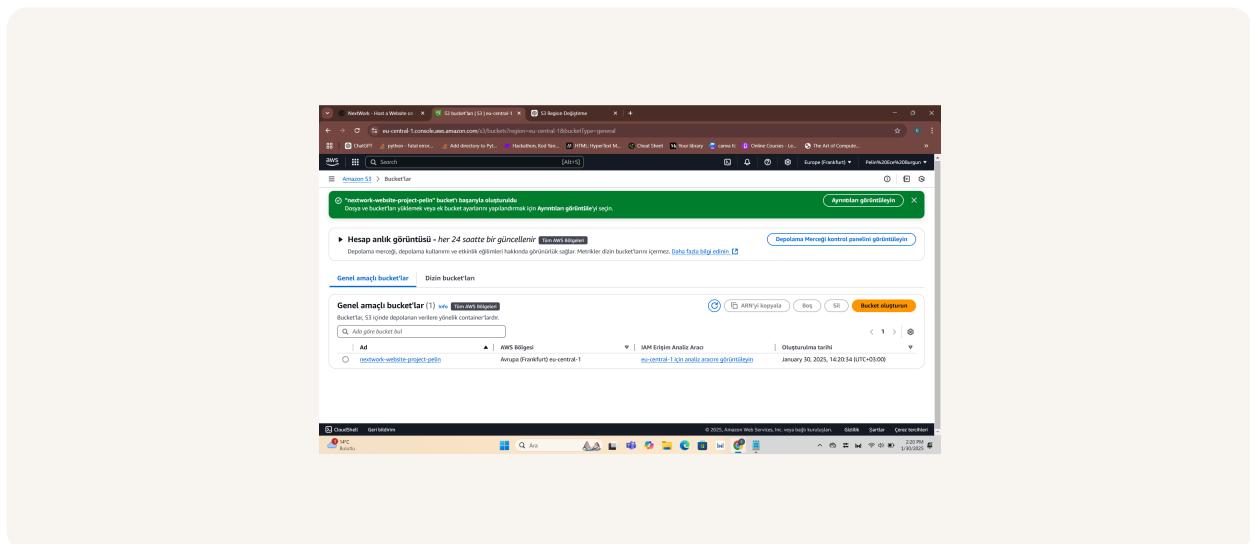
About 30-45 minutes

# How I Set Up an S3 Bucket

Creating an S3 bucket took me about 5 mins.

The Region I picked for my S3 bucket was \*\*eu-central-1 (Frankfurt, Germany)\*\* because it is geographically the closest to Turkey, offering low latency and high performance. Additionally, it supports a wide range of AWS services.

S3 bucket names are globally unique! This means no two S3 buckets can have the same name across all AWS accounts worldwide.



# Upload Website Files to S3

## index.html and image assets

I uploaded two files to my S3 bucket – they were index.html and Everyone should be in a job they love folder. The index.html file is likely a webpage or a part of a web application, while the folder contains files related to career or job-related.

Both files are necessary for this project as 'index.html' serves as the main webpage or entry point for the website, while the "Everyone should be in a job they love" folder likely contains additional resources or content.

The screenshot shows a summary of the upload process. It includes a message stating that files have been successfully uploaded, a summary table with details like target bucket and success rate, and a detailed table of uploaded files with columns for name, type, size, and status.

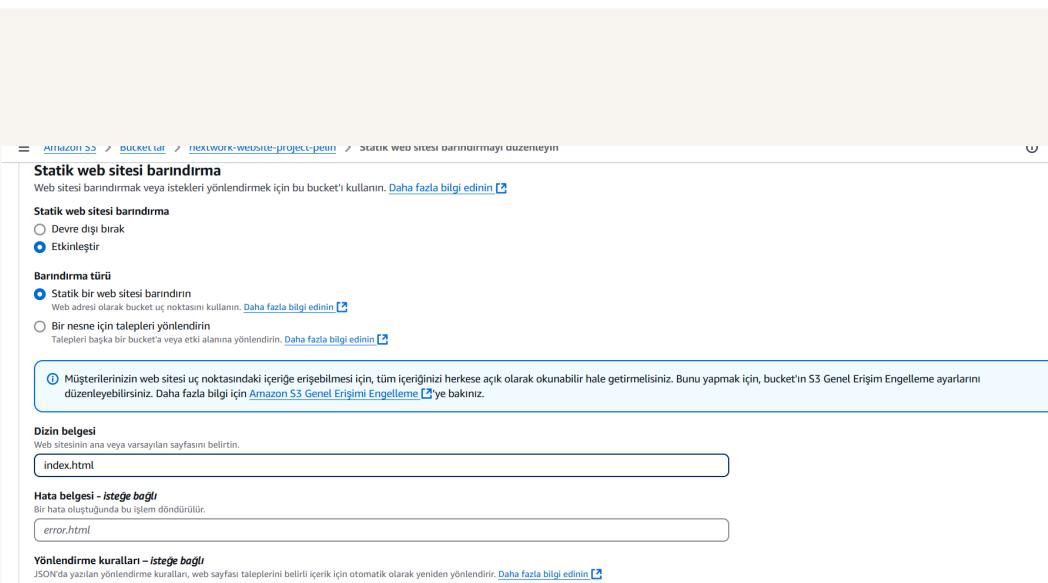
Ad	Klasör	Tür	Boyut	Durum	Hata
<a href="#">DS_Store</a> [?	NextWork - Everyone should ...	-	10.0 KB	Başarılı	-
<a href="#">1.jpg</a> [?	NextWork - Everyone should ...	image/jpeg	4.0 KB	Başarılı	-
<a href="#">10.jpg</a> [?	NextWork - Everyone should ...	image/jpeg	4.1 KB	Başarılı	-
<a href="#">11.jpg</a> [?	NextWork - Everyone should ...	image/jpeg	4.2 KB	Başarılı	-

# Static Website Hosting on S3

Website hosting means storing website files on a server and making them accessible on the internet.

To enable website hosting with my S3 bucket, I navigated to the S3 console, selected my bucket, and went to the Properties tab. There, I enabled Static Website Hosting.

An Access Control List (ACL) in AWS is a way to manage and control the permissions for your S3 bucket or object. I enabled ACLs to have more granular control over access permissions for my S3 bucket and its contents.





# Bucket Endpoints

Once static website hosting is enabled, S3 produces a bucket endpoint URL, which is a public web address that allows users to access the hosted site.

When I first visited the bucket endpoint URL, I saw a 403 Forbidden error. The reason for this error was that the bucket's permissions didn't allow public access. To fix this, I had to update the Bucket Policy and enable public read access



**403 Forbidden**

- Code: AccessDenied
- Message: Access Denied
- RequestId: SAE2YPDXYSFRJDX6
- HostId: Ht/YCaD13TVNmqZ3p1RsC1l4uy/rEbXzAyIwXxBg220ZoWtX9NgxR1B+nyLstfmfGngid3p'o28=

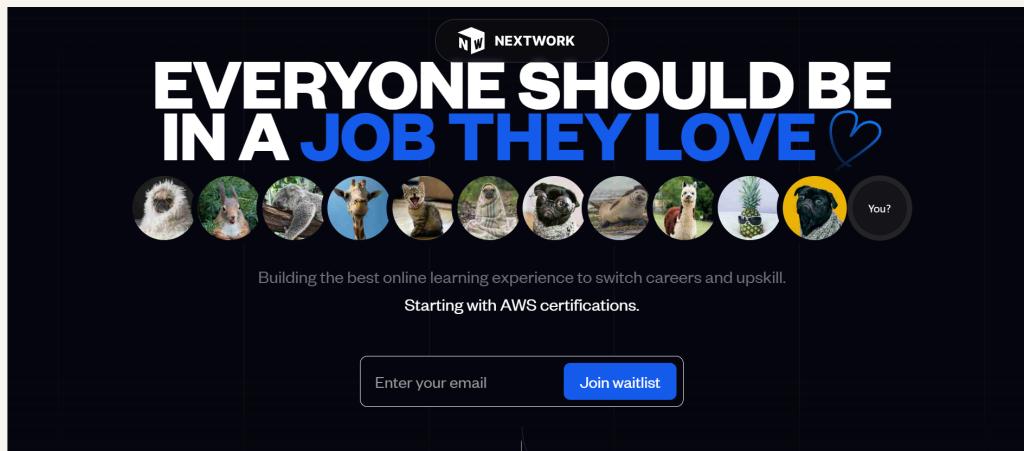
E

Ece Pelin  
NextWork Student

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# Success!

I didn't get any error.





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