

[nextwork.org](http://nextwork.org)

# Host a Website on Amazon S3



Lilly Adjei

The screenshot shows the NextWork website homepage. At the top, there is a dark blue header bar with the word "NEXTWORK" in white. Below the header, the main content area has a white background. The headline "EVERYONE SHOULD BE IN A JOB THEY LOVE" is centered in bold black text. Below the headline, a subtext "Building the best online learning experience to switch careers quickly" is followed by a yellow "Start Your Journey" button. The next section, titled "Why Choose NextWork?", contains three boxes: "Fast Career Transition" (with a rocket icon), "Industry-Focused" (with a target icon), and "Career Support" (with a briefcase icon). Each box includes a brief description. Below this, a dark blue section titled "Starting with AWS Certifications" features the text "Kickstart your cloud career with industry-recognized AWS certifications that open doors to high-paying jobs in tech." It includes four buttons for "Cloud Practitioner", "Solutions Architect", "Developer Associate", and "SysOps Administrator", followed by a yellow "Explore AWS Programs" button.



**Lilly Adjei**

NextWork Student

[nextwork.org](http://nextwork.org)

# Introducing Today's Project!

In this project, I will demonstrate how to use S3 to host a static website. I'm doing this project to learn about how AWS works, the services offered and especially for this project how to host a website in S3.

## Tools and concepts

Services I used were S3. Key concepts I learnt include bucket policies, uploading html files, allowing public access to files using ACLs to control access to individual files and troubleshooting 403 errors when a page is showing as needed.

## Project reflection

This project took me approximately 1 hr including quiz and troubleshooting. The most challenging part was troubleshooting using different methods in making the site accessible. It was most rewarding to see the site up and running as expected.



**Lilly Adjei**

NextWork Student

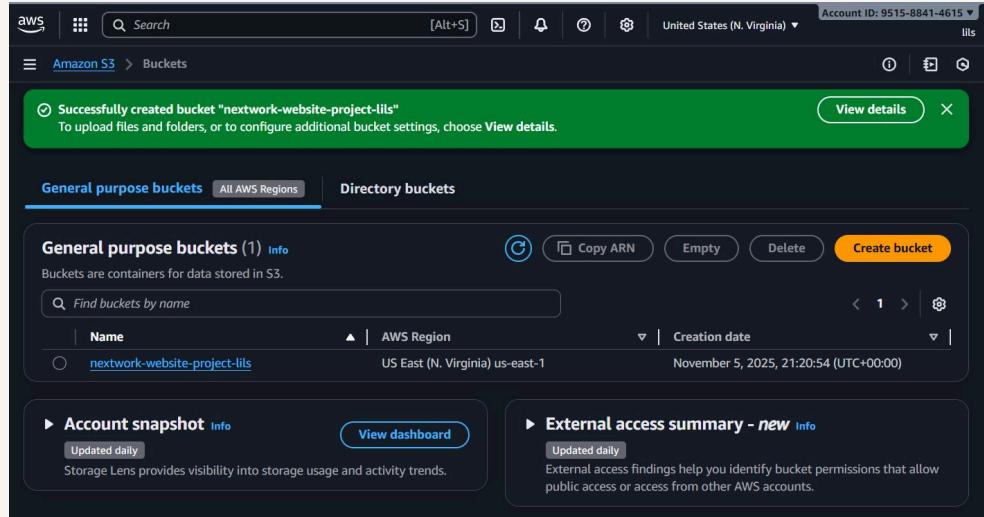
[nextwork.org](http://nextwork.org)

# How I Set Up an S3 Bucket

Creating an S3 bucket took me few minutes to create the S3 bucket.

The Region I picked for my S3 bucket was N. Virginia because its the default region.

S3 bucket names are globally unique! This means that it will not be mistaken for another bucket.



The screenshot shows the AWS S3 console with the following details:

- Header:** AWS logo, Search bar, [Alt+S] key, Notifications, United States (N. Virginia) region, Account ID: 9515-8841-4615.
- Breadcrumbs:** Amazon S3 > Buckets
- Success Message:** Successfully created bucket "nextwork-website-project-lils". To upload files and folders, or to configure additional bucket settings, choose View details.
- Buckets Tab:** General purpose buckets (1) [Info](#). Buckets are containers for data stored in S3.
- Table Headers:** Name, AWS Region, Creation date.
- Table Data:** A single row for the bucket "nextwork-website-project-lils" located in "US East (N. Virginia) us-east-1" with a creation date of "November 5, 2025, 21:20:54 (UTC+00:00)".
- Actions:** Copy ARN, Empty, Delete, Create bucket.
- Metrics:** Account snapshot (Updated daily) and External access summary - new (Updated daily).



**Lilly Adjei**

NextWork Student

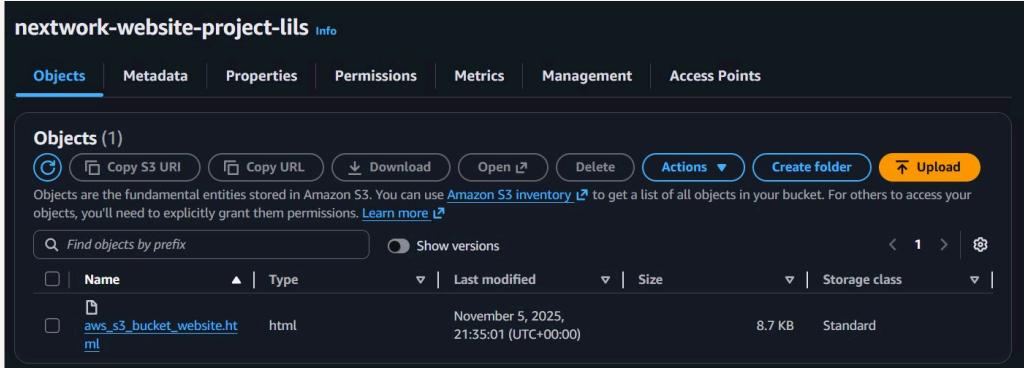
[nextwork.org](http://nextwork.org)

# Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were html files and some pictures for the website.

Both files are necessary for this project as the html is a syntax and the html needs the pictures as a resource to have a pictorial website.



The screenshot shows the AWS S3 console interface for the bucket 'nextwork-website-project-lils'. The 'Objects' tab is selected. A single object, 'aws\_s3\_bucket\_website.html', is listed. The object is a file type, last modified on November 5, 2025, at 21:35:01 (UTC+00:00), with a size of 8.7 KB and a storage class of Standard. The object has a preview icon showing a document.

Name	Type	Last modified	Size	Storage class
aws_s3_bucket_website.html	html	November 5, 2025, 21:35:01 (UTC+00:00)	8.7 KB	Standard



**Lilly Adjei**

NextWork Student

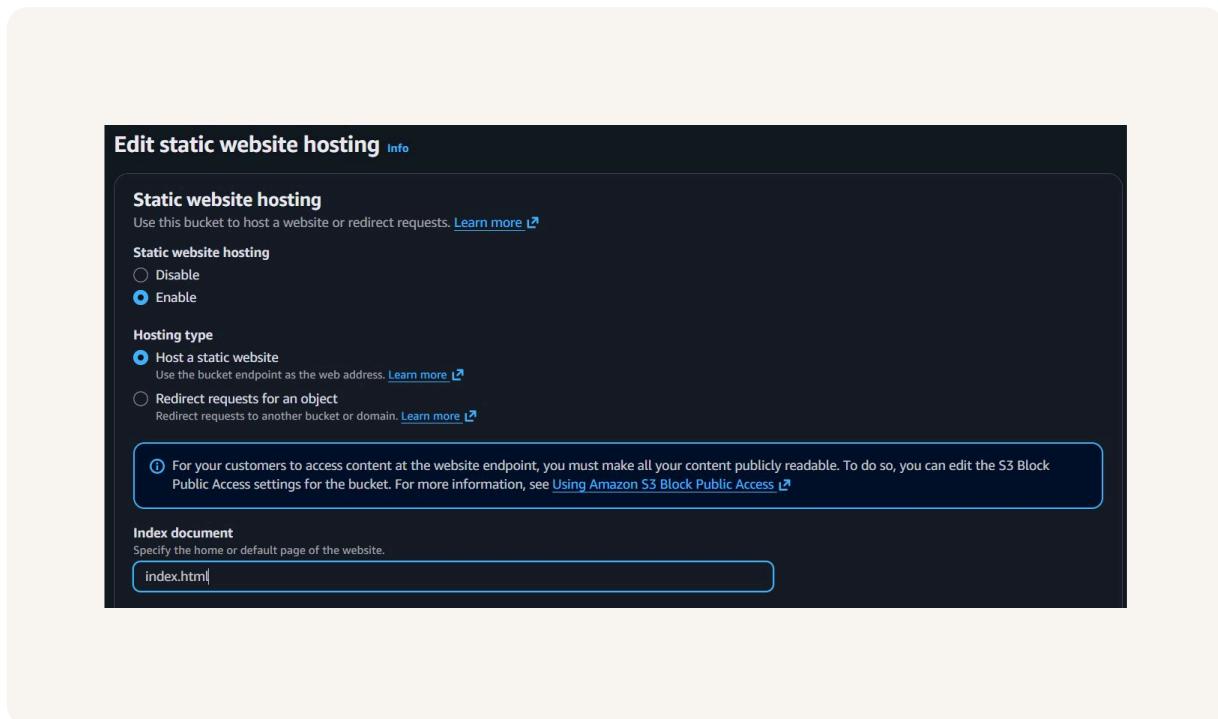
[nextwork.org](http://nextwork.org)

## Static Website Hosting on S3

Website hosting means making the website publicly available for others to view and see what have been created.

To enable website hosting with my S3 bucket, I have to select the bucket created. Go to the properties tab and then enable static website hosting.

An ACL is a set of rules that defines who/what can have access to resources in the s3 bucket created.



**Edit static website hosting** Info

**Static website hosting**  
Use this bucket to host a website or redirect requests. [Learn more](#)

**Static website hosting**  
 Disable  
 Enable

**Hosting type**  
 Host a static website  
Use the bucket endpoint as the web address. [Learn more](#)  
 Redirect requests for an object  
Redirect requests to another bucket or domain. [Learn more](#)

ⓘ 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 settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#).

**Index document**  
Specify the home or default page of the website.  
`index.html`



**Lilly Adjei**

NextWork Student

[nextwork.org](http://nextwork.org)

## Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is used to view the website in a different tab. The URL is like the address to the website being hosted in the S3 bucket

When I first visited the bucket endpoint URL, I saw an error. The reason for this error was to prevent public access to the files/ html.

### 403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: JFQQKQVAD7ZM87S2
- HostId: VznpChcv71jszwyjaoLsRyuI/0DRfWOAOTVAnQ6oF+qPXmu5YV7+OxYpSRXQlN9dB1GLxx3ZWSM=



**Lilly Adjei**

NextWork Student

[nextwork.org](http://nextwork.org)

# Success!

To resolve this 403 Forbidden error, I had to allow public access to the files in the S3 bucket.

The screenshot shows the homepage of NextWork. At the top, there is a dark blue header bar with the word 'NEXTWORK' in white. Below the header, the main content area has a white background. The central heading is 'EVERYONE SHOULD BE IN A JOB THEY LOVE' in bold black and orange text. Below this, a subtext reads 'Building the best online learning experience to switch careers quickly'. A 'Start Your Journey' button is located in a small orange box. The next section, 'Why Choose NextWork?', contains three boxes: 'Fast Career Transition' (with a rocket icon), 'Industry-Focused' (with a target icon), and 'Career Support' (with a briefcase icon). Each box has a brief description. Below this, a dark blue section features the heading 'Starting with AWS Certifications' and a subtext: 'Kickstart your cloud career with industry-recognized AWS certifications that open doors to high-paying jobs in tech.' It lists four certification categories: 'Cloud Practitioner', 'Solutions Architect', 'Developer Associate', and 'SysOps Administrator'. A 'Explore AWS Programs' button is at the bottom of this section.



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

# The place to learn & showcase your skills

Check out [nextwork.org](https://nextwork.org) for more projects

