

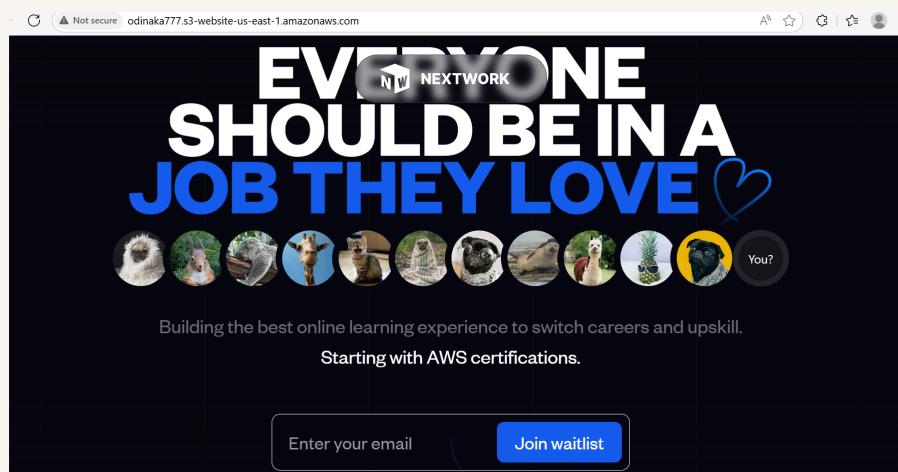


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Host a Website on Amazon S3

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Introducing Today's Project!

We'll be creating an S3 bucket to store pictures and files needed in your very own website. We would use Amazon S3 (Amazon Simple Storage Service) to host a website.

Tools and concepts

In this project, I learned key AWS services like Amazon S3 and its static website hosting feature. I also explored concepts like bucket creation, region selection, Access Control Lists (ACLs), object uploading, public access settings, and bucket poli

Project reflection

It took me a few hours to complete this project. I spent time understanding Amazon S3, creating a bucket, uploading files, configuring static website hosting, setting permissions, and resolving a 403 error. It was a great hands-on learning experience

How I Set Up an S3 Bucket

Creating an S3 bucket takes just a few minutes—typically under 5. The process involves naming the bucket, selecting a region, and configuring settings like permissions and encryption. It's quick and straightforward, allowing you to start storing data

I chose the US East (N. Virginia) region for my S3 bucket because it offers low costs, high availability, and broad AWS service support. Despite being in Nigeria, using Virginia ensures better pricing and access to more AWS features and integrations.

The names form part of a public URL used to access data. No two buckets across all AWS users can share the same name. This ensures each bucket can be uniquely identified and accessed over the internet unless you delete the bucket, then it can be used

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The screenshot shows the AWS S3 Buckets page. At the top, there is a green success message: "Successfully created bucket 'odi-naka7'. To upload files and folders, or to configure additional bucket settings, choose View details." Below this, there is an "Account snapshot - updated every 24 hours" section with a link to "View Storage Lens dashboard". The main table lists "General purpose buckets (1)" with the following details:

Name	AWS Region	IAM Access Analyzer	Creation date
odi-naka7	US East (N. Virginia) us-east-1	View analyzer for us-east-1	May 22, 2025, 18:39:52 (UTC+01:00)

Upload Website Files to S3

index.html and image assets

I uploaded two files into my S3 bucket: index.html, which is the main web page file, and NextWork - Everyone...love_files.zip, likely containing supporting assets like images, CSS, or scripts needed for the website.

The two files are related because index.html is the main web page, and NextWork - Everyone...love_files.zip likely contains the supporting resources (like images, styles, or scripts) that index.html needs to display properly. Both are required for a

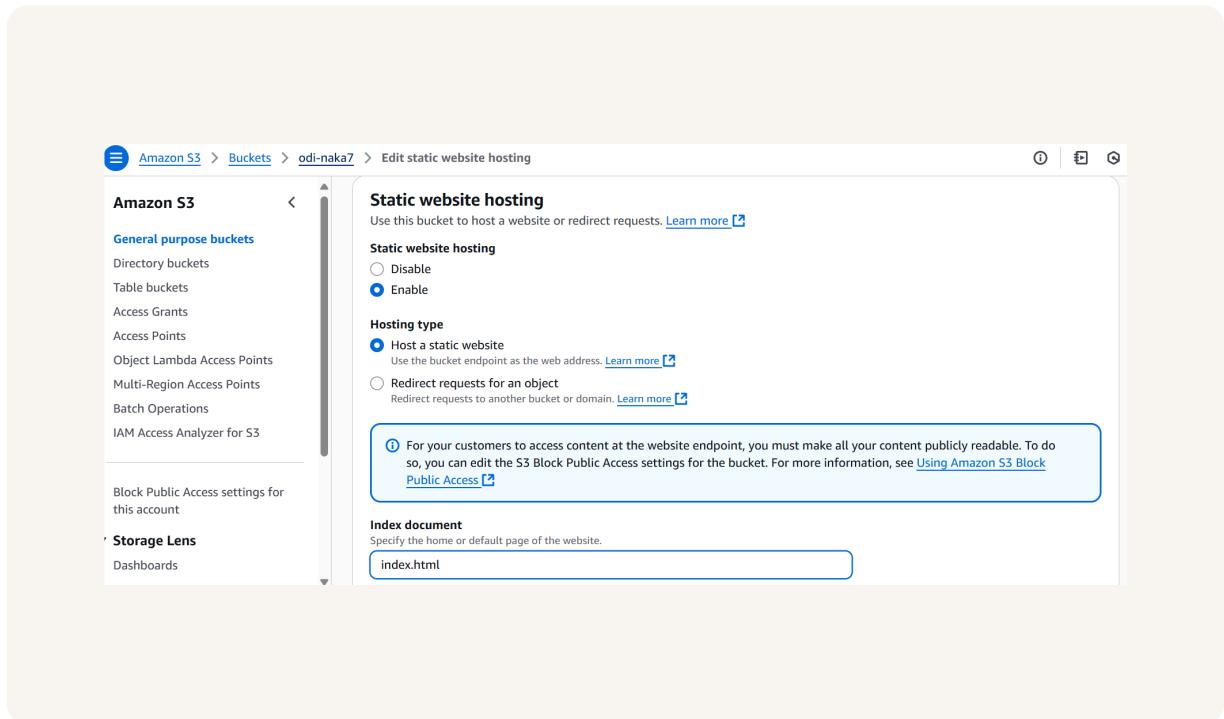
The screenshot shows the AWS S3 console interface. At the top, the path is shown as Amazon S3 > Buckets > odi-naka7. Below the path, there's a 'Info' button. A navigation bar with tabs for Objects, Metadata, Properties, Permissions, Metrics, Management, and Access Points is visible. The 'Objects' tab is currently selected. A sub-header 'Objects (2)' is displayed. Below it is a toolbar with actions: Copy S3 URI, Copy URL, Download, Open, Delete, Actions (with a dropdown arrow), Create folder, and Upload. A note below the toolbar states: 'Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)' followed by a link icon. There's also a 'Find objects by prefix' input field and a 'Show versions' toggle. The main area lists the two uploaded objects in a table format. The table has columns for Name, Type, Last modified, Size, and Storage class. The first object, 'index.html', is of type 'html' and was last modified on May 22, 2025, at 19:04:02 (UTC+01:00), with a size of 58.8 KB and a storage class of 'Standard'. The second object, 'NextWork - Everyone should be in a job they love_files.zip', is of type 'zip' and was last modified on May 22, 2025, at 19:04:01 (UTC+01:00), with a size of 846.7 KB and a storage class of 'Standard'. Each object row includes a checkbox and a small preview icon.

Static Website Hosting on S3

This means storing website files (like HTML, CSS, images) on a server that is connected to the internet, allowing people to access the site via a web browser. Hosting makes your website publicly available online 24/7 through a unique web address

I enabled website hosting by accessing my S3 bucket settings, selecting the "Static website hosting" option, and specifying index.html as the default homepage. Then, I configured permissions to make the bucket's content publicly accessible via the we

An Access Control List (ACL) in S3 manages access permissions for specific users at the bucket or object level. I chose to enable ACLs to have more granular control over who can read, write, or manage content within the bucket, based on specific need



Bucket Endpoints

A bucket website endpoint URL is the web address provided by Amazon S3 when you enable static website hosting on a bucket. It allows users to access your website files directly over the internet.

I saw an error message. This usually means there's a problem with permissions, the actual HTML/image files i have uploaded are still private, permission of the objects needs to be public, To solve this error,we need to enabled ACLs.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 6Q08M8VHZ4RK1ZN4
- HostId: xkrmv54s7i13Y1ZrSAWm0guQHLhiHkktDXUCwo9PDbH8MONw43uQ0I2i8m98D/dbm0PxbtTGgHE=

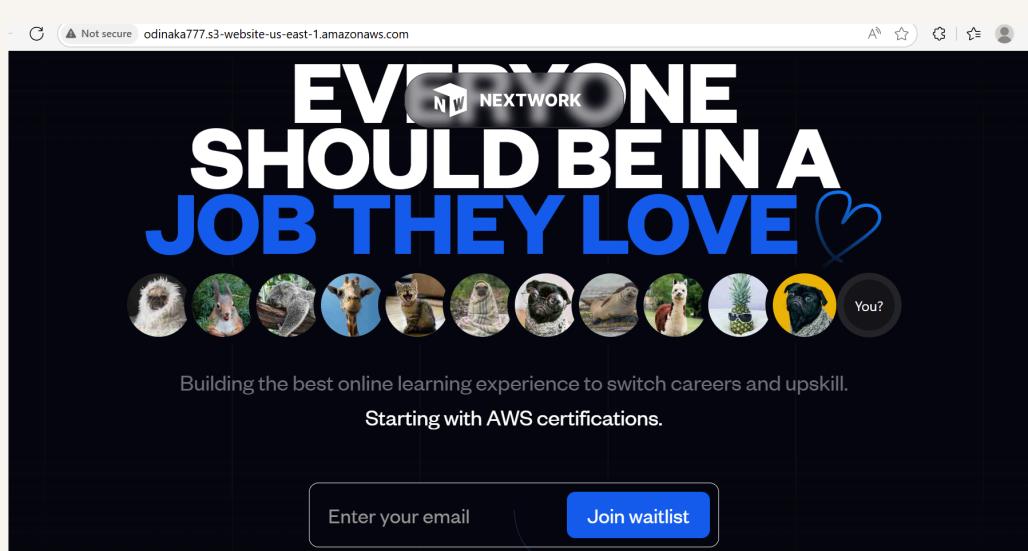
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Success!

I resolved the 403 Forbidden error by updating the S3 bucket's permissions. I enabled static website hosting, made sure index.html was uploaded correctly, granted public read access for all users.





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