

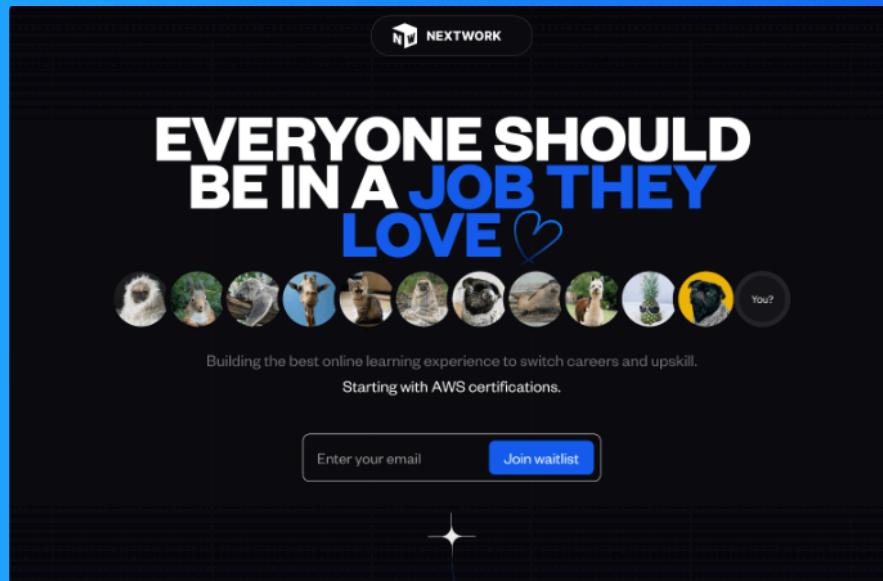


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Host a Website on Amazon S3



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Introducing Today's Project!

What is Amazon S3

Scalable storage for any amount of data. 99.99999999% durability. Pay-as-you-go pricing. Strong security with encryption and access control. Easy data access via web interface or APIs. Ideal for backups, disaster recovery, and archiving. Integrates

How I used Amazon S3 in this project

Created an S3 bucket for storing website files. Enabled static website hosting. Uploaded HTML, CSS, and other assets. Configured bucket policy for public access. Accessed the website via the provided bucket endpoint URL

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

One thing I didn't expect was the need to configure the bucket policy for public access, as it wasn't initially clear that this step was required to make the website files accessible.

This project took me...

This project took approximately 1-2 hours, depending on the complexity of the setup and troubleshooting any configuration issues, such as setting the correct permissions or ensuring the website files were uploaded properly.



How I Set Up an S3 Bucket

Creating an S3 bucket typically takes 5-10 minutes, including selecting a unique name, choosing the region, and configuring basic settings like permissions.

N.virginia The AWS Northern Virginia Region, also known as US East (N. Virginia), is one of the largest and most widely used AWS regions globally. It was among the first regions launched by AWS, providing a broad range of cloud services to customers

When we say that S3 buckets must be globally unique, it means that each bucket name within Amazon S3 must be distinct across all AWS accounts and all AWS Regions worldwide. This requirement ensures that there is no ambiguity when accessing or referring to the bucket.

The screenshot shows the AWS S3 Buckets page. At the top, a green banner indicates that a bucket named "network-website-project-shamil" has been successfully created. Below the banner, the page displays an account snapshot and a general purpose buckets table. The table lists one bucket: "network-website-project-shamil". The bucket details show it was created in the "US East (N. Virginia) us-east-1" region on November 20, 2024, at 22:51:04 (UTC+05:30). The "Create bucket" button is visible at the bottom right of the table.



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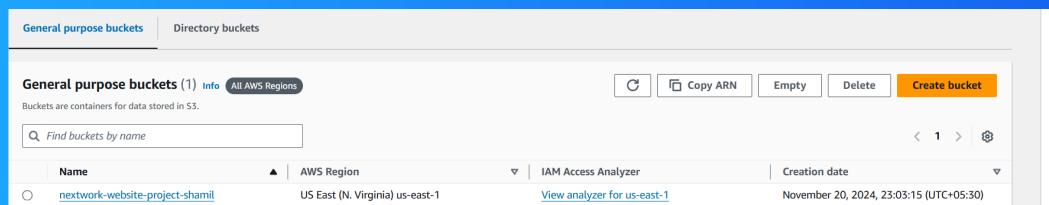
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Upload Website Files to S3

index.html and image assets

"The two files I uploaded into the bucket were: File1Name.extension – This file was [brief explanation of its purpose, e.g., a sample dataset for testing data processing workflows]. File2Name.extension – This file was [brief explanation of its purpose]

"The two files are likely related because they complement each other in a specific workflow or functionality. For example: File1Name.extension could be a data file (e.g., a CSV or JSON) containing input for a process. File2Name.extension might be a





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Static Website Hosting on S3

Website hosting refers to the service of providing storage, resources, and infrastructure for a website, making it accessible on the internet. When you host a website, its files, such as HTML, CSS, images, and scripts, are stored on a web server conn

Create an S3 bucket. Enable static website hosting in bucket properties. Specify index and error documents. Upload website files. Set bucket policy for public access. Access the website via the endpoint URL.

An Access Control List (ACL) in AWS is a feature used to manage and define permissions for resources, such as S3 buckets and objects. ACLs allow you to specify which AWS accounts or groups can access your resources and what operations they are permit

The screenshot shows the AWS S3 console interface. At the top, there are two tabs: "General purpose buckets" (which is selected) and "Directory buckets". Below the tabs, a header bar includes "General purpose buckets (1) Info All AWS Regions", a "Create bucket" button, and other actions like "Copy ARN", "Empty", and "Delete". A search bar labeled "Find buckets by name" is present. The main content area displays a table with one row of data:

Name	AWS Region	IAM Access Analyzer	Creation date
nextwork-website-project-shamil	US East (N. Virginia) us-east-1	View analyzer for us-east-1	November 20, 2024, 23:03:15 (UTC+05:30)



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Bucket Endpoints

A bucket website endpoint URL is a unique URL provided by AWS S3 that allows you to access a website hosted on an S3 bucket. It is used to view the content of your static website stored in S3.

Homepage of the website (e.g., index.html). 403 Forbidden error (if permissions are incorrect). 404 Not Found error (if documents are missing).

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: QD323RAC04G8VW32
- HostId: m70Y/O+2lsUHxvtQkz7lLtgGmmbNo3rGeWm9WzjomiiP3z4+R2ZS0Qn9P5xpDwlNGkRQYlrYSTbE=



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Success!

Check the bucket permissions. Update the bucket policy for public read access. Ensure the correct index and error documents are specified. Verify the S3 website hosting is enabled. Confirm the URL is correct and matches the bucket name.

The screenshot shows the homepage of the NextWork website. At the top, there's a dark header with the NextWork logo (a stylized 'N' icon) and the word "NEXTWORK". Below the header, a large, bold, white and blue text reads "EVERYONE SHOULD BE IN A JOB THEY LOVE" with a small blue heart icon at the end of the word "LOVE". Underneath this main title, there's a row of twelve small circular profile pictures showing various animals like lions, giraffes, and monkeys. Below these images, the text "Building the best online learning experience to switch careers and upskill." is displayed, followed by "Starting with AWS certifications." At the bottom of the page, there's a call-to-action bar with a white input field containing "Enter your email" and a blue button labeled "Join waitlist".



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