

NextWork.org

Host a Website on Amazon S3



sru anu

A dark promotional banner with a grid of small animal photos at the top. The main text reads "EVERYONE SHOULD BE IN A JOB THEY LOVE" with a blue heart icon. Below the text, it says "Building the best online learning experience to switch careers and upskill." and "Starting with AWS certifications." It includes an email input field "srujansa2002@gmail.com" and a blue button "Join waitlist".

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Introducing Today's Project!

What is Amazon S3

yeah it was helpful

How I used Amazon S3 in this project

excellent and 20%

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

errors and debugging

This project took me...

pretty good



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How I Set Up an S3 Bucket

Creating an S3 bucket took me just a few minutes, as it involved naming the bucket, selecting the region, and configuring basic settings like permissions and versioning.

The Region I picked for my S3 bucket was the Mumbai region because it offers lower latency and faster access for users in my geographic area, ensuring better performance and efficiency.

S3 bucket names are globally unique! This means that no two buckets across all AWS users can have the same name, ensuring that each bucket can be distinctly identified worldwide.

The screenshot shows the AWS S3 console interface. At the top, a green banner indicates that a bucket named "nextwork-website-project-srujan" has been created. Below this, the main page displays an account snapshot and a storage item. The "General purpose buckets" section is selected, showing two buckets: "nextwork-website-project-srujan" (created on September 11, 2024) and "staticbucketproject" (created on November 17, 2023). The "Create bucket" button is visible at the top right of the list table.



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Upload Website Files to S3

index.html and image assets

index.html NextWork - Everyone should be in a job they love_files/

Both files are necessary for this project.

The screenshot shows the Amazon S3 console interface. The top navigation bar includes 'Amazon S3', 'Buckets', and the specific bucket name 'nextwork-website-project-srujan'. Below the navigation, there are tabs for 'Objects', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. The 'Objects' tab is selected. A sub-header 'Objects (2)' is followed by a toolbar with icons for 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', 'Actions', 'Create folder', and 'Upload'. The 'Upload' icon is highlighted with a yellow box. 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](#)'.

Name	Type	Last modified	Size	Storage class
index.html	html	September 11, 2024, 15:27:39 (UTC+05:30)	58.8 KB	Standard
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Static Website Hosting on S3

Website hosting means storing and managing a website's files on a server, making it accessible online. Hosting services provide the infrastructure needed for a website to be available to users.

To enable website hosting with my S3 bucket, I configured the bucket for static website hosting, uploaded my site files, set appropriate permissions, and specified the index and error documents for navigation.

Access Control Lists (ACL)

An ACL is an Access Control List that defines who can access specific objects or buckets in AWS S3. I disabled ACLs to simplify permissions and manage access using bucket policies instead.



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Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is the web address where the hosted content can be accessed. It typically follows the format `http://bucket-name.s3-website-region.amazonaws.com`.

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You?

The advertisement features a dark blue background with white text. At the top, there's a logo with the letters 'NW' and the word 'NEXTWORK'. Below it, the main headline 'EVERYONE SHOULD BE IN A JOB THEY LOVE' is displayed, with 'LOVE' in blue and a small heart icon. Underneath the headline is a horizontal row of twelve circular icons, each containing a different animal: an owl, a squirrel, a koala, a giraffe, a cat, a pug, a seal, a llama, a pineapple, a dog, and a person's face. Below this row, the text 'Building the best online learning experience to switch careers and upskill.' and 'Starting with AWS certifications.' is written. At the bottom, there's an input field with the email 'srujansa2002@gmail.com' and a blue button labeled 'Join waitlist'.



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An error!

When I first visited the bucket endpoint URL, I saw my static website displayed, including the homepage or index file I had uploaded, functioning as expected through the S3 hosting service.

The reason for this error was likely due to improper permissions on the S3 bucket or files, missing an index document, or incorrect bucket settings for static website hosting.

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<Error>
  <Code>AccessDenied</Code>
  <Message>Request has expired</Message>
  <X-Amz-Expires>60</X-Amz-Expires>
  <Expires>2024-09-11T10:49:50Z</Expires>
  <ServerTime>2024-09-11T11:29:23Z</ServerTime>
  <RequestId>4NM1R5CZTATVXXSJ</RequestId>
  <HostId>r3FoV0t0nCN9pCyP93n5OYKqNRJ20+icMvqTycE3betW+7Zqzq9D46bmviCYHW3DZ1UdPYLwhr4bwOTXdqg==</HostId>
</Error>
```



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Success!

To resolve this connection error, I updated the bucket permissions to allow public access, ensured the correct index document was set, and verified that the S3 bucket was properly configured for static website hosting.

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