



# Host a Website on Amazon S3



DEVA TELAGAREDDY

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### About Me

I am a passionate Data Science student currently pursuing my 3rd year in Computer Science Engineering at the Institute of Aeronautical Engineering College. I have a strong foundation in programming, web development, and cloud technologies.

### Skills

SQL  
HTML  
CSS  
Python  
Cloud Fundamentals

### Education

Currently pursuing a B.Tech in Data Science (CSE) at the Institute of Aeronautical Engineering College, 3rd Year.

### Projects

- Project 1: *Data Analysis with Python* - Analyzed a large dataset using Pandas and visualized insights with Matplotlib.
- Project 2: *Web Development Portfolio* - Built a personal portfolio website using HTML, CSS, and JavaScript.
- Project 3: *AWS EC2 Deployment* - Deployed a web application on AWS EC2 and managed server scaling with Auto Scaling and CloudWatch monitoring.



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# Introducing Today's Project!

## What is Amazon S3

Amazon S3 is a scalable cloud storage service by AWS, offering secure, durable, and highly available object storage. It is designed to store and retrieve any amount of data from anywhere on the web.

## How I used Amazon S3 in this project

One unexpected feature of Amazon S3 is its ability to host static websites.

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

While S3 is primarily known for storing objects and it also offers the functionality to serve static websites directly from a bucket, without the need for

## This project took me...

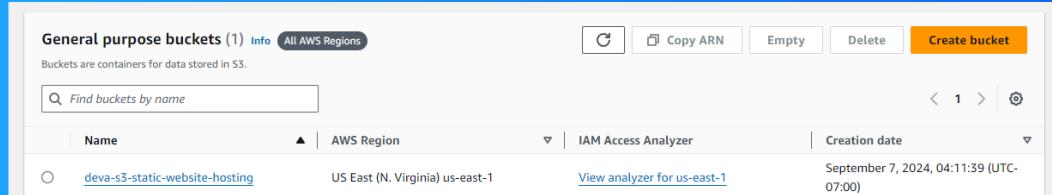
It just took me 30 minutes

# How I Set Up an S3 Bucket

Selected s3 bucket form AWS console and clicked Create Bucket

The region I picked for my S3 bucket was US East (N. Virginia) us-east-1 because it is closest region to me

Amazon S3 bucket names must be globally unique across all AWS regions. This means that when you create a bucket, the name you choose cannot be used by anyone else in the world.



# Upload Website Files to S3

## index.html and image assets

i uploaded a html portfolio file they were p.html

This file is necessary to host a static website in s3 bucket

The screenshot shows the AWS S3 console interface. At the top, a green banner displays the message "Upload succeeded" with a link to "View details below". Below this, the "Summary" section provides an overview of the upload results:

Destination	Succeeded	Failed
s3://deva-s3-static-website-hosting	1 file, 3.6 KB (100.00%)	0 files, 0 B (0%)

Below the summary, there are two tabs: "Files and folders" (which is selected) and "Configuration". The "Files and folders" tab displays a list of uploaded files:

Name	Folder	Type	Size	Status	Error
p.html	-	text/html	3.6 KB	Succeeded	-

A search bar labeled "Find by name" is located above the file list, and navigation arrows are visible at the bottom right of the list area.



# Static Website Hosting on S3

Website hosting means making your website public on the internet

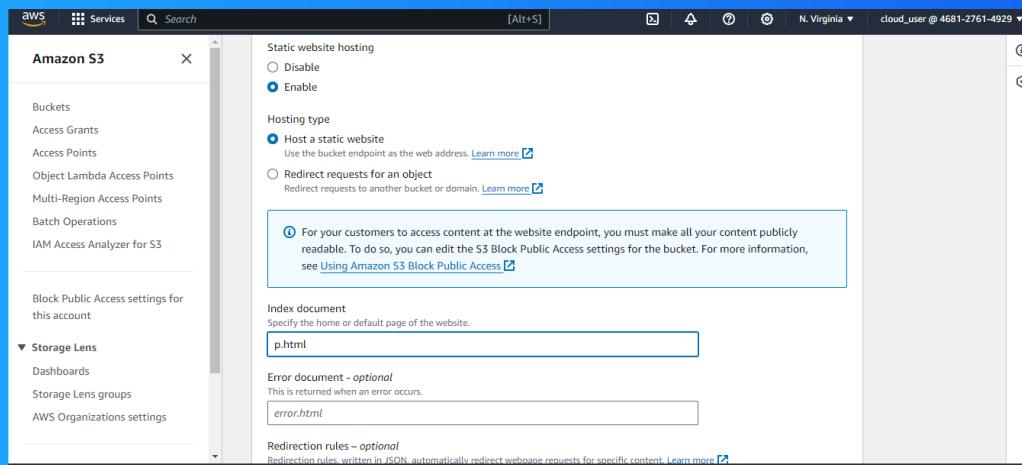
Enable static website hosting option. Choose edit and Static web hosting:  
Choose enable Hosting type: Choose host a static website Index document:  
Enter p.html

## Access Control Lists (ACL)

An ACL (ACCESS CONTROL LIST ) is enabled so that i can decide who can get access to a resource.

# Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which allows you to access the static content hosted in your S3 bucket over the web.



# An error!

When i First visited the bucket endpoint URL, I saw an error on my screen saying that 403 Forbidden

The reason for this is error was the static website is being hosted in S3, but the actual HTML/image files you've uploaded are still private.

## 403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: R8TY3X88YXB03433
- HostId: 5btA23m2JiV+9IEu55LuMBDzwPY2yDtqY9Qpo2porfljDEdFGO0DQ4Sb8BPw0Wmlx9i29QyVUwmGwKlUTPEF0zaBnJ5WHB+T



# Success!

So resolve this connection error, By setting the permission of the objects to public.

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