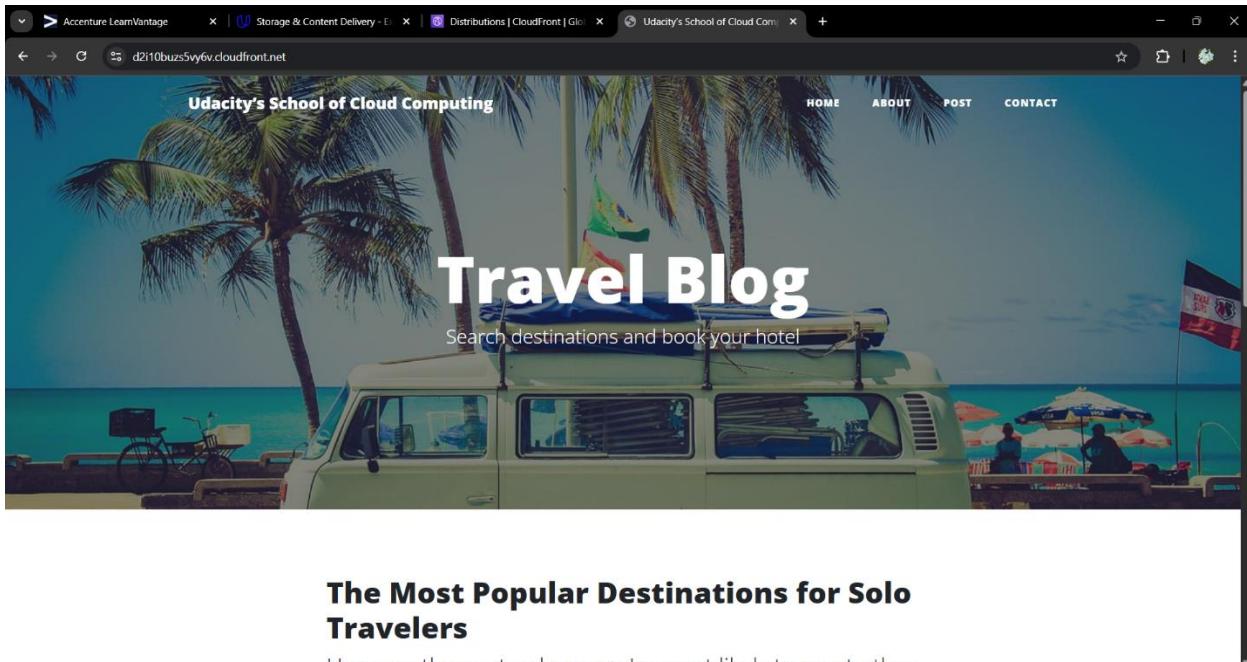# Deploying static website on AWS

About the project:

Project Overview

This project demonstrates how to deploy a static website using Amazon Web Services (AWS).
The deployment uses **Amazon S3**, **Amazon CloudFront**.
The goal of this project is to showcase knowledge of cloud deployment, versioning, security etc.

AWS Services Used

- **Amazon S3** – Host the website files (HTML, CSS, JS, images)
- **Amazon CloudFront** – CDN distribution for faster content delivery
- **AWS IAM** – Secure access and permissions

Project Structure:

bucket-name/

index.html

style.css

script.js

images/

Steps to deploy the project:

1. Creating the S3 bucket
   - Go to AWS console → S3
   - Click create bucket
   - Create bucket with gobally unique name.
   - Enable the public acces to the bucket.
   - Click create bucket.
2. Uploading website files in the bucket.
   - Click the upload button in the bucket.
   - Add all files and floders related to the website.
   - Make files public.
3. Configure bucket policy
   - Click permissions tab.
   - In the bucket policy section click edit button.
   - Enter the code below and name name to your bucket name
   - click save
     ```
     {
       "Version":"2012-10-17",
       "Statement":[
         {
           "Sid":"AddPerm",
           "Effect":"Allow",
           "Principal": "*",
           "Action":["s3:GetObject"],
           "Resource":["arn:aws:s3:::mybucket-3126-9063-3537/*"]
         }
       ]
     }
     ```
4. Static website hosting and copy endpoint
   - Go to properties tab
   - In static website hosting section click edit.
   - Enable the static website hosting.
   - Enter index.html in the index document.
   - Save the changes and copy the website endpoint.
5. Creating the distribution in the cloudFront.
   - Select cloudfront from the services
   - In the dashboard click create distribution.

- Follow all the steps and click create distribution.
6. Attaching the S3 pages to the Distribution.
    - Once distribution created select it
    - Paste the end point in the distribution and origin name.
    - Enable and deploy distribution.

Final output:

Your static website is successfully deployed!
You can access it using:

- **S3 Website URL:**
  http://mybucket-3126-9063-3536.s3-website-region.amazonaws.com

- **CloudFront URL:**
  d2i0buzs5vy6v.cloudfront.net