

Deploy Static Website on **AWS**

Udacity Project-1
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Introduction:

The cloud is perfect for hosting static websites that only include HTML, CSS, and JavaScript files that require no server-side processing. In this project, you will deploy a static website to AWS. First, you will create a S3 bucket and upload the website files to your bucket. Next, you will configure the bucket for website hosting and secure it using IAM policies. Next, you will speed up content delivery using AWS' content distribution network service, CloudFront. Lastly, you will access your website in a browser using the unique CloudFront endpoint.

Prerequisites:

- AWS Account
- [Student-ready starter code](#)

Topics Covered:

- S3 bucket creation
- S3 bucket configuration
- Website distribution via CloudFront
- Access website via web browser

Dependencies:

1. Cloud Services:

- Amazon Web Services S3 - Resource hosting and deployments
- AWS CloudFront - CDN for SPA
- AWS EKS - Backend API
- AWS DynamoDB - Persistent Datastore
- AWS Cognito - User Authentication

2. Performance Tracking and DevOps Tools:

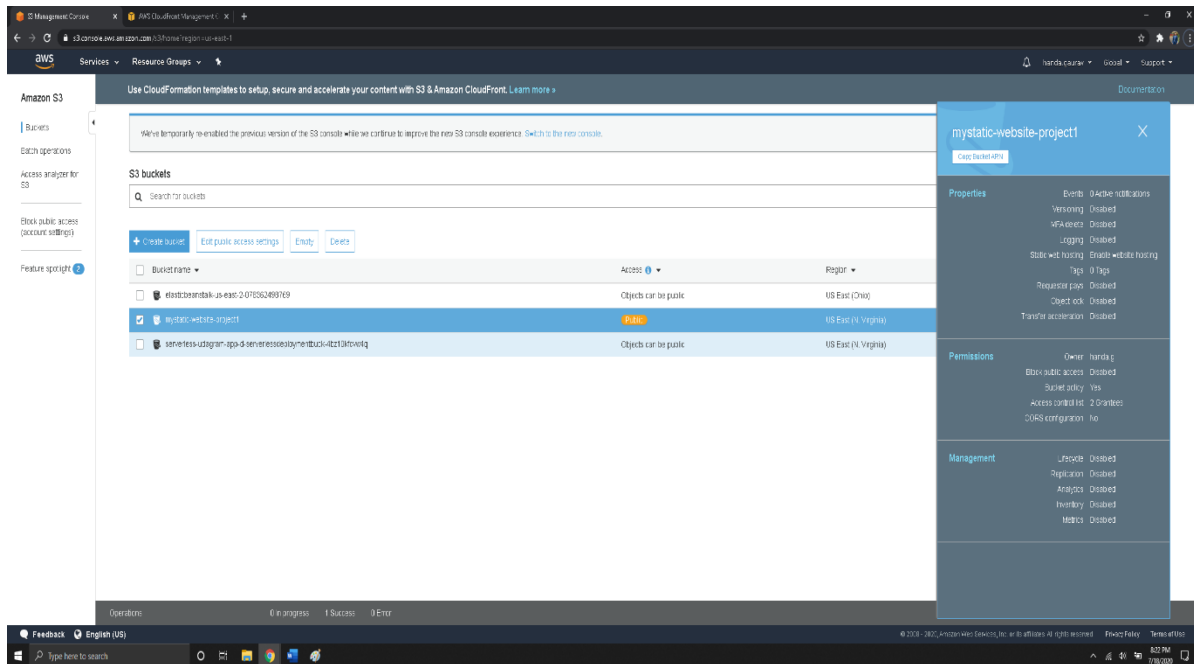
- AWS CloudWatch - Performance and Health checks
- Sentry - Bug Reporting
- Google Analytics - Usage Reporting
- Travis (CI/CD)

3. Frameworks:

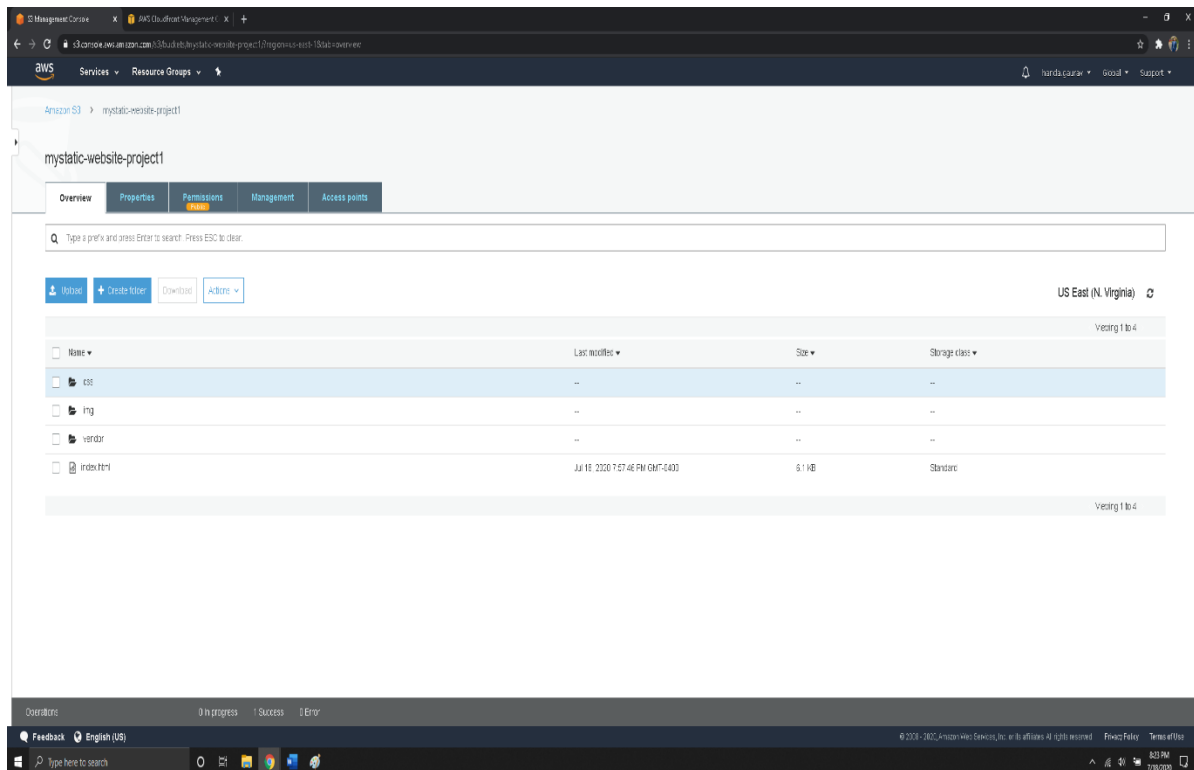
- Ionic (Javascript) (Frontend)
- Node.js (Javascript) (Backend)

Website Files

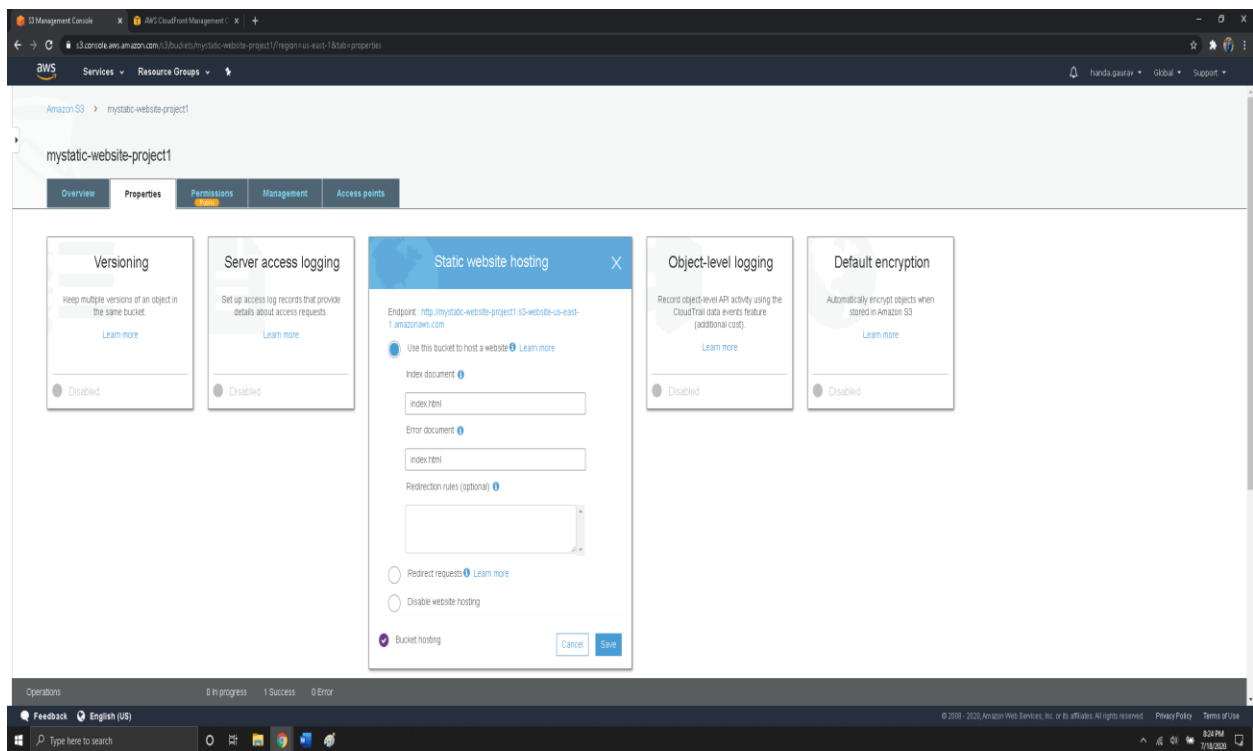
1.Create S3 Bucket:



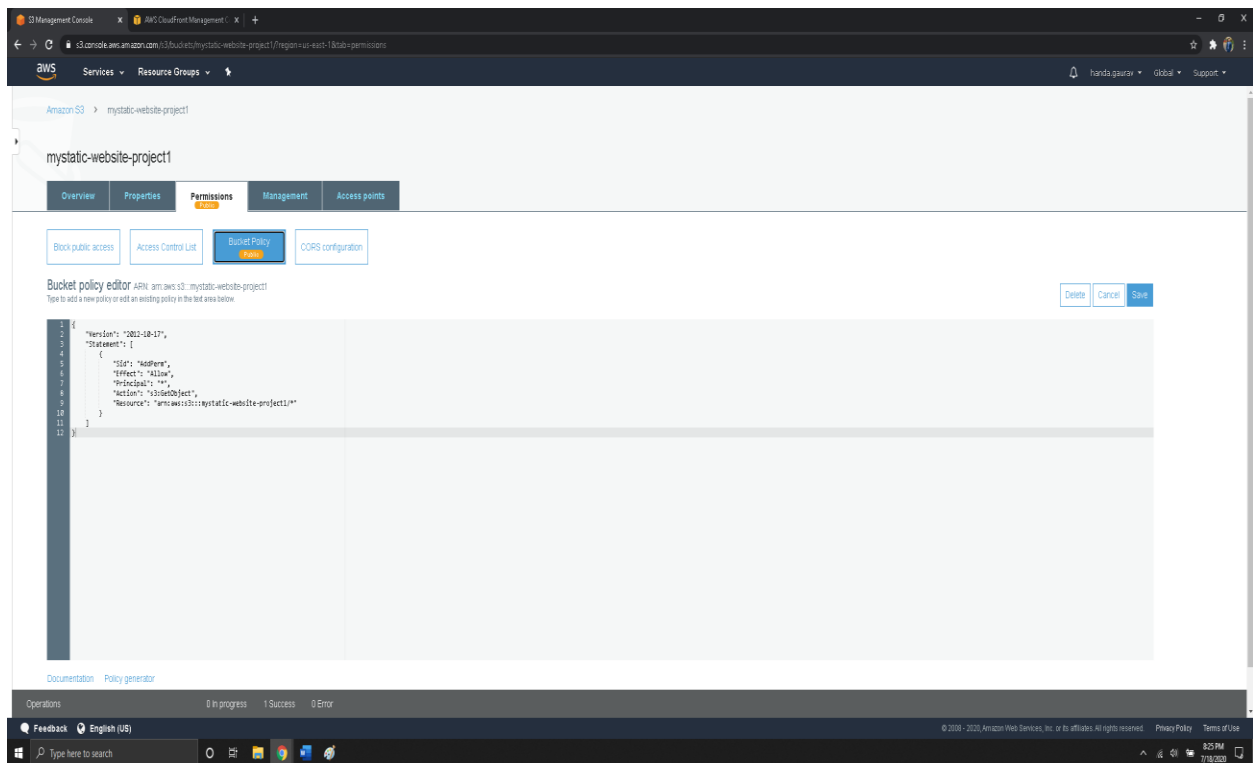
2. Upload files to S3



3. Bucket Configuration

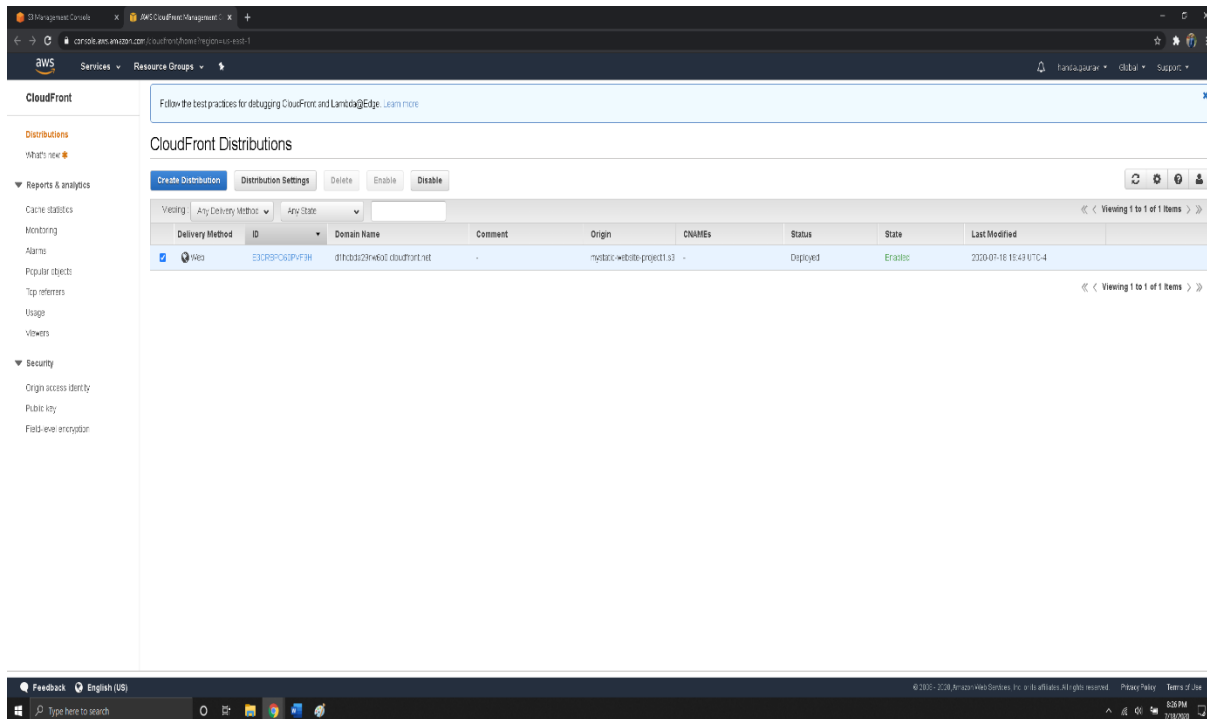


4. Permission Access



Website Distribution

Cloudfront

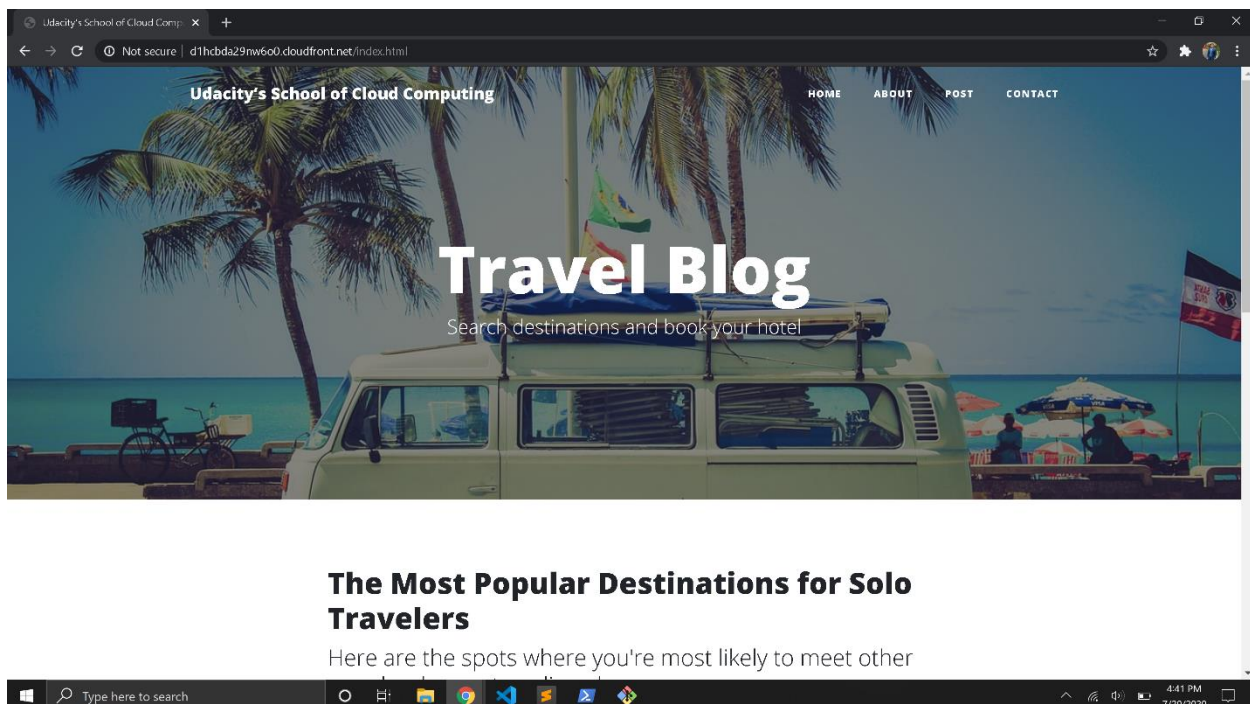


The screenshot shows the AWS CloudFront console. On the left is a navigation menu with options like Distributions, Reports & analytics, and Security. The main area is titled 'CloudFront Distributions' and contains a table with one distribution. The distribution has a delivery method of 'Web', ID 'E3CRPQKQNF3M', domain name 'd1hcbda29nw6o0.cloudfront.net', and is in a 'Deployed' state.

Delivery Method	ID	Domain Name	Comment	Origin	CNAMEs	Status	State	Last Modified
Web	E3CRPQKQNF3M	d1hcbda29nw6o0.cloudfront.net	-	mybnc-website-project1.s3	-	Deployed	Enabled	2020-07-16 15:43 UTC-4

Web Browser Access

<http://d1hcbda29nw6o0.cloudfront.net/index.html>



The screenshot shows a web browser displaying a travel blog. The page has a header with the title 'Udacity's School of Cloud Computing' and navigation links for HOME, ABOUT, POST, and CONTACT. The main content area features a large image of a van parked on a beach with palm trees in the background. Overlaid on the image is the text 'Travel Blog' and a search prompt 'Search destinations and book your hotel'. Below the image, there is a section titled 'The Most Popular Destinations for Solo Travelers' with the subtitle 'Here are the spots where you're most likely to meet other'.

Reviews: