AWS Architecture Diagram

Project Objectives

- Host a static website on AWS S3

- Configure CloudFront CDN for global distribution

- Secure with HTTPS using AWS Certificate Manager

- Set up custom domain with Route 53

Implementation Steps

1. Create S3 Bucket

1. Navigate to AWS S3 console

2. Create bucket named your-website-domain.com

3. Enable static website hosting in bucket properties

4. Upload HTML/CSS/JS files

5. Set bucket policy for public read access

2. Configure CloudFront

1. Create new CloudFront distribution

2. Select S3 bucket as origin

3. Enable "Redirect HTTP to HTTPS"

4. Configure default cache behavior

3. Set Up HTTPS

1. Request certificate in AWS Certificate Manager

2. Validate certificate using DNS validation

3. Associate certificate with CloudFront distribution

4. Configure Route 53

1. Create hosted zone for your domain

2. Add A record alias pointing to CloudFront

3. Configure DNS settings with your registrar