

# **Project Title: Global Static Website Delivery using Amazon S3 and CloudFront CDN**

## **Step-by-Step Project Implementation (AWS)**

- 1 Create a static website file (index.html) on local system.
- 2 Login to AWS Console and navigate to Amazon S3 service.
- 3 Create an S3 bucket with a globally unique name.
- 4 Disable Block Public Access while creating the bucket.
- 5 Upload index.html file to the S3 bucket.
- 6 Enable Static Website Hosting from bucket properties.
- 7 Set index.html as the default index document.
- 8 Configure bucket permissions by disabling Block Public Access.
- 9 Add bucket policy to allow public read access (s3:GetObject).
- 10 Verify website access using the S3 bucket website endpoint.
- 11 Navigate to Amazon CloudFront service.
- 12 Create a new CloudFront distribution.
- 13 Configure S3 website endpoint as CloudFront origin.
- 14 Enable Redirect HTTP to HTTPS in cache behavior settings.
- 15 Set index.html as the default root object in CloudFront.
- 16 Wait for CloudFront distribution to deploy globally.
- 17 Access the website using the CloudFront distribution domain name.
- 18 Verify secure HTTPS access and global content delivery.
- 19 After completion, disable and delete CloudFront to avoid charges.
- 20 Empty and delete the S3 bucket if no longer required.

## **Outcome**

The static website is successfully hosted on Amazon S3 and delivered globally using CloudFront CDN with improved performance, scalability, and secure HTTPS access.