STEPS TO DEPLOY WEBSITE USING S3 and CLOUD FRONT  
  
Steps to Deploy a Website Using S3 and CloudFront in AWS

Deploying a website on Amazon S3 (Simple Storage Service) and Amazon CloudFront ensures scalability, low cost, and high availability. Follow these steps:

## Step 1: Create an S3 Bucket

1. Go to AWS S3 Console → [S3 Console](https://s3.console.aws.amazon.com/)
2. Click "Create Bucket"
3. Enter a Bucket Name (e.g., my-static-website)
4. Select a Region close to your users.
5. Uncheck "Block all public access" (required for public website access).
6. Enable Static Website Hosting:
   * Go to the Properties tab.
   * Click "Edit" in the Static Website Hosting section.
   * Select "Enable" and specify an index document (e.g., index.html).
   * Save Changes.
7. Click "Create Bucket".

## Step 2: Upload Website Files

1. Open your S3 bucket.
2. Click "Upload", then add your index.html, style.css, script.js, etc.
3. Click "Upload".

## Step 3: Set Bucket Permissions

1. Go to the Permissions tab.

Under Bucket Policy, paste this JSON to allow public read access:  
json  
CopyEdit  
{

"Version": "2012-10-17",

"Statement": [

{

"Sid": "PublicReadGetObject",

"Effect": "Allow",

"Principal": "\*",

"Action": "s3:GetObject",

"Resource": "arn:aws:s3:::my-static-website/\*"

}

]

}

* + Replace "my-static-website" with your actual bucket name.

1. Save Changes.

Now, your S3 bucket is publicly accessible, and your website can be accessed via the S3 static website endpoint.

## Set Up CloudFront for Global Distribution

1. Go to AWS CloudFront Console → [CloudFront Console](https://console.aws.amazon.com/cloudfront/)
2. Click "Create Distribution".
3. Choose Origin Settings:
   * Origin domain: Select your S3 bucket.
   * Origin access: Choose "Public" (or use OAC for private access).
   * Enable "Origin Shield" for better caching.
4. Configure Distribution Settings:
   * Web Distribution (default setting).
   * Default Root Object: index.html.
5. Click "Create Distribution".

Step 6: Access Your Website

* Find your CloudFront distribution domain name (e.g., dxxxxxxxx.cloudfront.net).
* Open the URL in a browser.