

# Steps to Update Website with CloudFront and S3 By Deepak Kesarkar

## 1. Step 1: Upload the Updated `index.html` to Your S3 Bucket

Follow these steps to upload the updated `index.html` file to your S3 bucket:

- Login to the [AWS Management Console](#).
- Navigate to the **S3** service.
- Click on your bucket name where your website files are stored.
- Click **Upload**, then select the updated `index.html` file from your local machine.
- Click **Upload** to replace the old version of the file in the S3 bucket.

## 2. Step 2: Invalidate CloudFront Cache to Reflect Changes

To make sure the updated `index.html` is visible immediately, you need to invalidate the CloudFront cache:

- Navigate to the **CloudFront** service in the AWS Management Console.
- Choose your CloudFront distribution from the list.
- Click on the **Invalidations** tab at the top of the page.
- Click the **Create Invalidation** button.
- In the **Object Paths** field, enter `/index.html` to invalidate only the `index.html` file, or use `/*` to invalidate all cached files.
- Click **Invalidate** to start the invalidation process.

## 3. Step 3: Wait for Propagation

The invalidation process may take up to **15-30 minutes** to fully propagate across CloudFront's edge locations. Once complete, the updated `index.html` will be served to visitors.

## 4. Step 4: Check the Website

Once the invalidation is complete, visit your website using the CloudFront URL or your custom domain. You may need to clear your browser cache to see the latest version.

## 5. Optional: Update Cache-Control Headers for Future Uploads

To ensure CloudFront doesn't cache your files aggressively in the future, you can set the `Cache-Control` header during the upload process:

- Go to the **S3 bucket** where you want to upload the files.
- Select the file (e.g., `index.html`) you want to upload.
- Click on **Actions** > **Make Public** (if the file isn't public).

- Under **Metadata**, click **Add Metadata** and add the following:
  - **Key:** `Cache-Control`
  - **Value:** `no-cache, no-store, must-revalidate`
- Click **Save Changes** to apply the Cache-Control headers.

**Note:** CloudFront invalidation may take some time to propagate across all edge locations.