# Assignment-6

Here is a **comprehensive and lucid instructional guide** based on the provided **AWS-Assignment6.pdf**, detailing the steps to upload a static website to Amazon S3.

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# Uploading a Static Website in Amazon S3

## Overview

This guide covers:

1. **Creating a public S3 bucket**
2. **Enabling static website hosting**
3. **Uploading files and modifying permissions**
4. **Accessing the website via a public URL**

**Remark**: Hosting a website on S3 requires making the files publicly accessible. Ensure no sensitive data is included.

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# Step 1: Sign in to AWS and Open Amazon S3 Console

1. **Go to AWS** (https://aws.amazon.com) and sign in.
2. In the **AWS Management Console**, navigate to **Amazon S3**.

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# Step 2: Create a Public S3 Bucket

1. In the left panel, click **Buckets**.
2. Click **Create bucket**.
3. The **Create bucket** page opens.
4. Enter a **Bucket Name** (e.g., `snehapublicbucket`).
5. Choose the **AWS Region** where the bucket will reside.
6. **Enable ACLs** under **Object Ownership**.
7. **Modify Public Access Settings**:
   - o  Uncheck **Block Public Access settings for this bucket**.
   - o  Tick the **Acknowledgment** box.
8. Click **Create Bucket**.

**Remark**: The bucket itself is public, but individual files must also be made public.

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## Step 3: Enable Static Website Hosting

1. Open the newly created bucket.
2. Go to the **Properties** tab.
3. Scroll down to **Static Website Hosting** and click **Edit**.
4. Enable **Static Website Hosting**.
5. Set the **Index Document** as `index.html`.
6. Click **Save changes**.

**Remark**: The **index.html** file will serve as the home page for the website.

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## Step 4: Upload Website Files

1. Click **Upload**.
2. Click **Add folders** and select the folder containing the website files (`index.html`, `next.html`, `about.html`).
3. Click **Upload** to complete the process.

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## Step 5: Make Files Public Using ACL

1. Select all uploaded files (`index.html`, `next.html`, `about.html`).
2. Click **Actions → Make public using ACL**.
3. In the **Make Public** page, click **Make Public**.

**Remark**: This step ensures that website files can be accessed by anyone.

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## Step 6: Access the Website

1. Click on `index.html`.
2. Navigate to the **Properties** tab.
3. Under **Object Overview**, copy the **Object URL**.
4. Paste the URL in a web browser.
5. The static website should be visible.

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## Final Notes

- **If the website does not load**, verify ACL permissions and ensure public access is enabled.
- **The bucket name must be unique** globally in AWS.

- **To use a custom domain**, configure Amazon Route 53 and set up a CNAME record.
- **For additional security**, consider setting up AWS CloudFront.

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