

# Static Website Hosting using AWS S3

- To deploy and host a static website by using an Amazon S3 bucket, uploading HTML files, and enabling static website hosting features in bucket.

## ● Tools & Services Used

1. - AWS S3 (Simple Storage Service)
2. - HTML files (static web pages)
3. - AWS Management Console

Amazon S3 (Simple Storage Service) allows you to host static websites directly from an S3 bucket. A static website consists of HTML, CSS, JavaScript, and image files that don't require server-side processing (like PHP or databases). With S3, these files are stored and served to users via the internet using a bucket endpoint or a custom domain.

## Steps Performed :

### Step 1 : Create an S3 Bucket :

- Logged into the AWS Management Console.
- Created a new S3 bucket with a unique name.
- Selected the desired region.
- Disabled "Block all public access" (to allow public website access).

### Step 2: Upload Website Files :

- Uploaded HTML files (e.g., index.html, about.html).
- Set permissions for objects to make them publicly accessible.

### Step 3: Enable Static Website Hosting :

- Went to the Properties tab of the bucket.
- Selected Static Website Hosting.Configured
- index document → index.html

### Step 4: Access the Website :

- Copied the endpoint URL provided in the static website hosting section.
- Opened it in the browser to verify the website was successfully hosted.

## 1. Created S3 bucket (Public) :

Created bucket disabling block all public access

### Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

☒ **Block all public access**  
Turning off the settings below is the same as turning on all four settings below. Each of the following settings are independent of one another.

☐ **Block public access to buckets and objects granted through new access control lists (ACLs)**  
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

☐ **Block public access to buckets and objects granted through any access control lists (ACLs)**  
S3 will ignore all ACLs that grant public access to buckets and objects.

☐ **Block public access to buckets and objects granted through new public bucket or access point policies**  
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

☐ **Block public and cross-account access to buckets and objects through any public bucket or access point policies**  
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

⚠ **Turning off block all public access might result in this bucket and the objects within becoming public**  
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

☒ I acknowledge that the current settings might result in this bucket and the objects within becoming public.

### Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

**Bucket Versioning**

☒ Disable

☐ Enable

## 2. Upload HTML Files & set permissions for make it public :

3pm-website-bkt

Objects Properties Permissions Metrics Management Access Points

Objects (9/9)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permission. [Learn more](#)

| <input checked="" type="checkbox"/> | Name                           | Type   | Last modified                            | Size             |
|-------------------------------------|--------------------------------|--------|--|------------------|
| <input checked="" type="checkbox"/> | css/                           | Folder | -  |                  |
| <input checked="" type="checkbox"/> | img/                           | Folder | -  |                  |
| <input checked="" type="checkbox"/> | index.html                     | html   | September 10, 2025, 15:52:08 (UTC+05:30) |                  |
| <input checked="" type="checkbox"/> | js/                            | Folder | -  |                  |
| <input checked="" type="checkbox"/> | lib/                           | Folder | -  |                  |
| <input checked="" type="checkbox"/> | LICENSE.txt                    | txt    | September 10, 2025, 15:52:08 (UTC+05:30) |                  |
| <input checked="" type="checkbox"/> | README.txt                     | txt    | September 10, 2025, 15:52:08 (UTC+05:30) |                  |
| <input checked="" type="checkbox"/> | scss/                          | Folder | -  |                  |
| <input checked="" type="checkbox"/> | wedding-bootstrap-template.jpg | jpg    | September 10, 2025, 15:52:09 (UTC+05:30) | 98.8 KB Standard |

Actions

Download as

Share with a presigned URL

Calculate total size

Copy

Move

Initiate restore

Query with S3 Select

Edit actions

Rename object

Edit storage class

Edit server-side encryption

Edit metadata

Edit tags

**Make public using ACL**

Successfully edited public access

View details below.

Close

### Make public: status

After you navigate away from this page, the following information is no longer available.

Summary

Source

s3://3pm-website-bkt

Successfully edited public access

136 objects, 3.3 MB

Failed to edit public access

0 objects

Failed to edit public access

Configuration

Failed to edit public access (0)

| Name                      | Folder | Type | Last modified | Size | Error |
|---------------------------|--------|------|---------------|------|-------|
| No objects failed to edit |        |      |               |      |       |

### 3. Make it Static :

- Enable Static Website Hosting
- And Add **index.html** at the index document

**Edit static website hosting** Info

**Static website hosting**  
Use this bucket to host a website or redirect requests. [Learn more](#)

**Static website hosting**  
☐ Disable  
☒ Enable

**Hosting type**  
☒ Host a static website  
Use the bucket endpoint as the web address. [Learn more](#)  
☐ Redirect requests for an object  
Redirect requests to another bucket or domain. [Learn more](#)

☐ For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

**Index document**  
Specify the home or default page of the website.

**Error document - optional**  
This is returned when an error occurs.

**Redirection rules - optional**  
Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

| 1 |
|---|
|---|

### 4. Copy URL :

Copy the URL after enabling the static Website hosting .

**Static website hosting** Edit

Use this bucket to host a website or redirect requests. [Learn more](#)

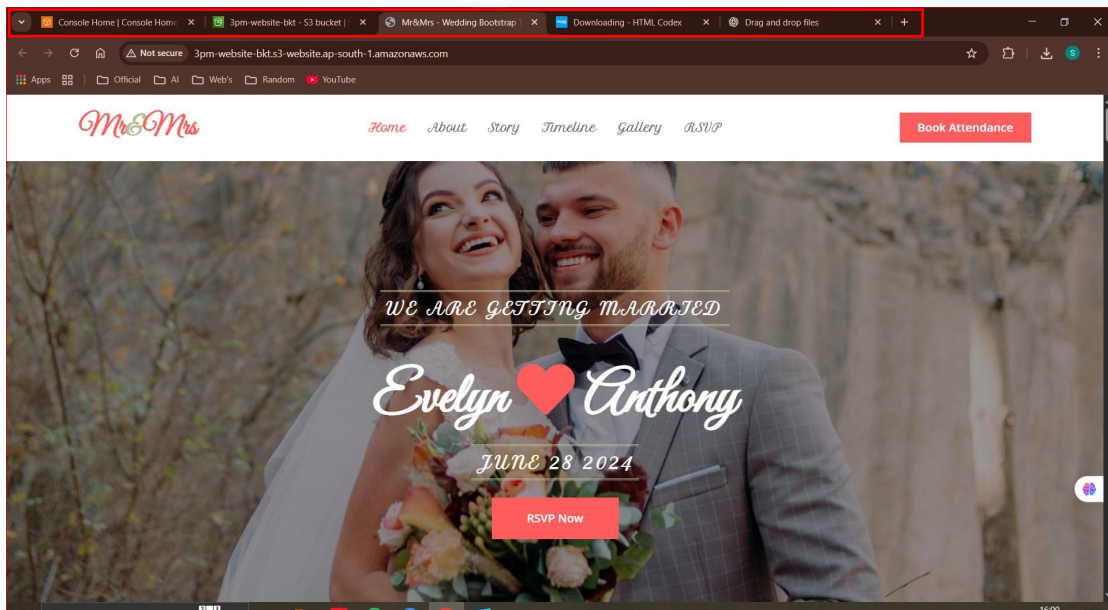
ⓘ We recommend using AWS Amplify Hosting for static website hosting. Deploy a fast, secure, and reliable website quickly with AWS Amplify Hosting. [Learn more about Amplify Hosting](#) or [View your existing Amplify apps](#) [Create Amplify app](#)

**S3 static website hosting**  
Enabled

**Hosting type**  
Bucket hosting

**Bucket website endpoint**  
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)  
<http://3pm-website-bkt-s3-website-ap-south-1.amazonaws.com>

## 5. Access the Website :



## Stay Connected :



<https://www.linkedin.com/in/siddheshwar-shinde-90b73a353>



<https://github.com/codexshwar>

Thank You .