

CS LAB 6



How to Host a Static Website using S3 Bucket

Step1: Create a bucket.

Step2: Upload the folder.

Step3: disable the bucket public option.

Step4: enable static website option.

Step5: enable ACL permission.

Step6: make it public ACL for all the folder object.

Step7: Click on html folder and host it.

Step 8: Check whether it is working properly or not

Here's a corrected and **step-by-step guide** to **host a static website using an Amazon S3 bucket**. Your steps are almost correct but need a bit of refinement and ordering:

✓ How to Host a Static Website Using Amazon S3 Bucket

Step 1: Create an S3 Bucket

- Go to the AWS Management Console.
- Open **S3 service**.
- Click "**Create bucket**".
- Give a **unique name** (e.g., `my-static-site-bucket``).
- Choose the region.
- **Uncheck "Block all public access"** (or modify later).
- Click "**Create bucket**".

Step 2: Upload Your Website Files

- Click on the newly created bucket.
- Click "**Upload**", then **add files/folder** (your HTML, CSS, JS, images, etc.).
- Click **Upload**.

Step 3: Enable Static Website Hosting

- Go to **Properties** tab of the bucket.
- Scroll to "**Static website hosting**".
- Click "**Edit**".

- Choose **"Enable"**.
- Set the **index document** (e.g., ``index.html``).
- Optionally, set **error document** (e.g., ``error.html``).
- Click **Save Changes**.

Step 4: Make the Bucket and Files Public

There are two ways to do this: via **Bucket Policy** or **ACLs**.


Option 1 (Recommended): Use Bucket Policy

- Go to the **Permissions** tab → **Bucket Policy**.
- Add this policy (replace ``your-bucket-name``):


```
json
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "PublicReadGetObject",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::your-bucket-name/*"
    }
  ]
}
```

Option 2: Use ACL (if Bucket Policy doesn't work)

- Go to **Objects**, select all uploaded files.
- Click **Actions** → **Make public using ACL**.
- Confirm and apply.

 **Note:** Using ACL is not recommended as AWS may restrict it in newer versions. Prefer Bucket Policy.

Step 5: Test the Website

- Go to the **Properties** tab → **Static website hosting**.
- Copy the **website endpoint URL**.
- Paste it into your browser.
-  If configured correctly, your site should be live!

Final Checklist

Task	Done
S3 Bucket Created	✓
Public Access Enabled	✓
Files Uploaded	✓
Static Hosting Enabled	✓
Bucket Policy or ACL Set	✓
Site Accessed via URL	✓

Let me know if you want to link this to a custom domain (via Route 53 or others).



```
404 Not Found
Code: NoSuchKey
Message: The specified key does not exist.
Key: index.html
RequestId: 7P319FWNSTFCXF71
HostId:
UF6q/Ig6ptKsQBNFToVMA4OwLxXmBzBsHU6bcviQy6eDy8D+K2q4v4FnK52KqMr5rm/uSKhEK/I=
An Error Occurred While Attempting to Retrieve a Custom Error Document
Code: NoSuchKey
Message: The specified key does not exist.
Key: error.html
```

The error you're seeing:

```
vbnet

404 Not Found
Code: NoSuchKey
Message: The specified key does not exist.
Key: index.html
```

means that **S3 can't find** ``index.html`` or ``error.html`` at the root level of your bucket.

Let's fix this step-by-step:

✓ Step-by-Step Fix

Step 1: Check Your Folder Structure

- Go to your S3 bucket → Click "**Objects**" tab.
- Make sure ``index.html`` and ``error.html`` are **not inside a subfolder** (like ``/html/``).
- They **must be at the root** of the bucket if that's what you set in "Static Website Hosting".

❗ If your files are inside a folder like ``html/index.html``, S3 won't find it unless you set that as the index document.

Step 2: Two Possible Fixes

✓ Option A: Move `index.html` to Root

1. Go to your bucket → `html` folder.
2. Select `index.html` → Click **Actions** → **Move**.
3. Move it to the **root** of the bucket (just `/`).
4. Do the same for `error.html`.

✓ Option B: Change the Static Website Settings

If your files are inside a folder (like `html/index.html`), update the config:

1. Go to **Properties** → **Static website hosting** → **Edit**.
 2. Set:
 - Index document: `html/index.html`
 - Error document: `html/error.html`
 3. Save changes.
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Step 3: Confirm File Exists

Double-check that:

- `index.html` and `error.html` exist in the path you specified.
 - They are spelled **exactly** as written (case-sensitive!).
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Step 4: Try the URL Again

- Go back to the **Static website hosting section**.
 - Click the **"Endpoint" URL**.
 - It should now display your website correctly.
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Let me know if you'd like to also set up a custom domain or HTTPS later!