

Hosting a Static Website Using AWS S3

Introduction

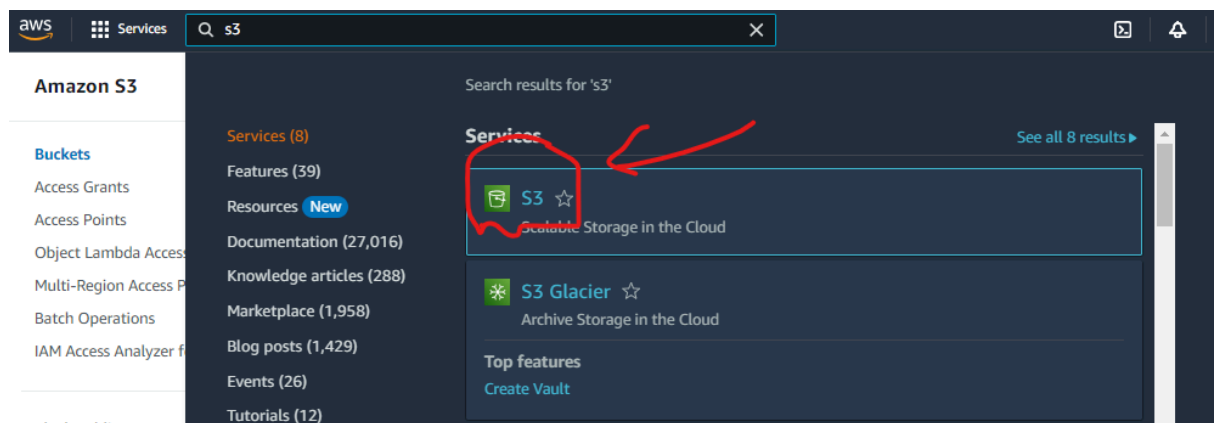
This document provides a step-by-step guide to hosting a static website using Amazon Web Services (AWS) S3. A static website consists of static files such as HTML, CSS, and JavaScript, which are served directly to the user's browser without server-side processing.

Steps

1. Create an S3 Bucket

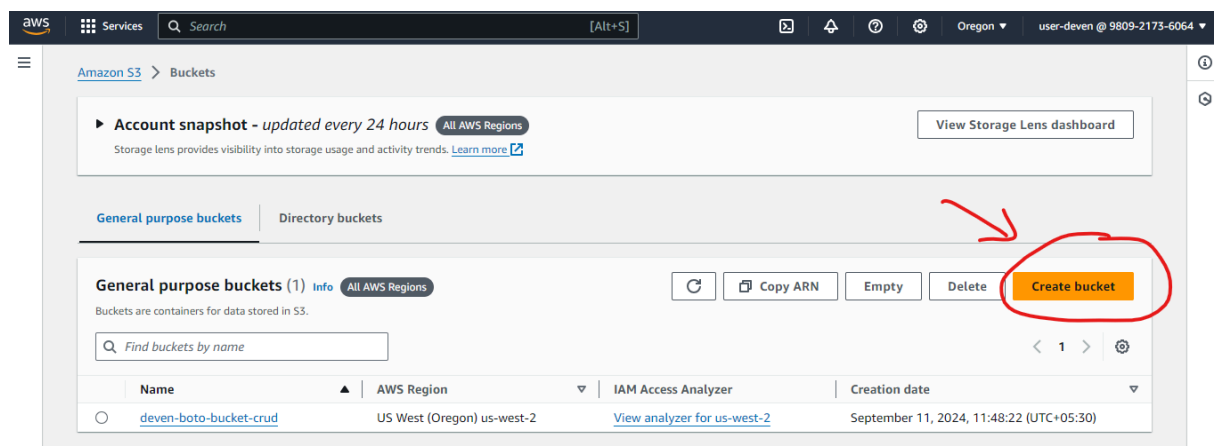
1. Go to S3 Service

In the AWS Management Console, select “S3” from the list of services.



2. Create a New Bucket

Click the “Create bucket” button.



3. Configure Bucket Settings

Bucket Name: Enter a unique name for your bucket (e.g., `deven-host-static-website`).

Buckets are containers for data stored in S3.

General configuration

AWS Region
US West (Oregon) us-west-2

Bucket type [Info](#)

☒ **General purpose**
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

☐ **Directory**
Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

Bucket name [Info](#)

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Copy settings from existing bucket - *optional*
Only the bucket settings in the following configuration are copied.

Format: s3://bucket/prefix

4. Set Bucket Permissions

- Uncheck "Block all public access" to allow public access to the website.

aws Services Search [Alt+S]

Bucket owner enforced

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 this setting on 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.

- Confirm by acknowledging that the bucket will be public.

... will create 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.

5. Review and Create

Review your settings and click "Create bucket."

► **Advanced settings**

ⓘ After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel **Create bucket**

aws Services Search [Alt+S] Oregon user-deven @ 9809-2173-6064

☑ **Successfully created bucket "deven-host-static-website"** View details
To upload files and folders, or to configure additional bucket settings, choose [View details](#).

General purpose buckets (2) Info All AWS Regions

🔄 Copy ARN Empty Delete **Create bucket**

Buckets are containers for data stored in S3.

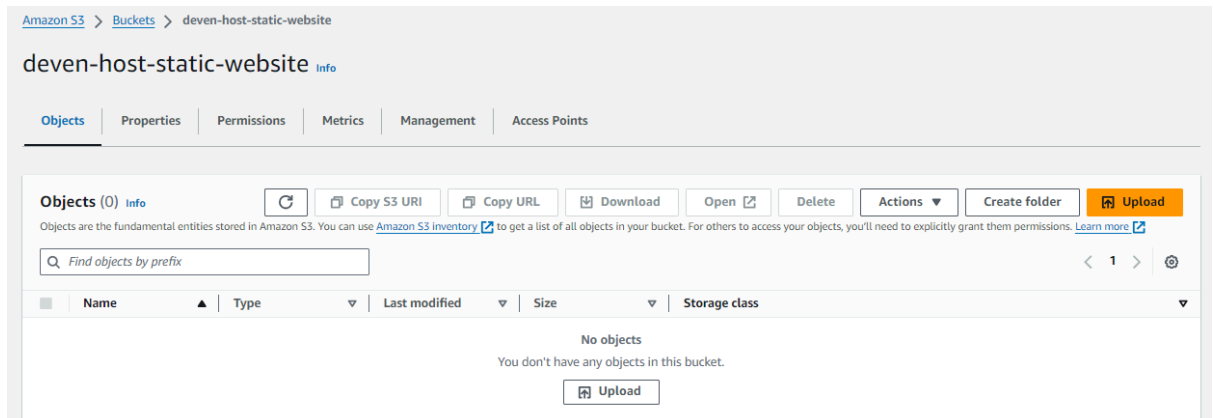
🔍 Find buckets by name < 1 > ⚙

Name	AWS Region	IAM Access Analyzer
<input type="radio"/> deven-host-static-website	US West (Oregon) us-west-2	View analyzer for us-west-2

2. Upload Your Website Files

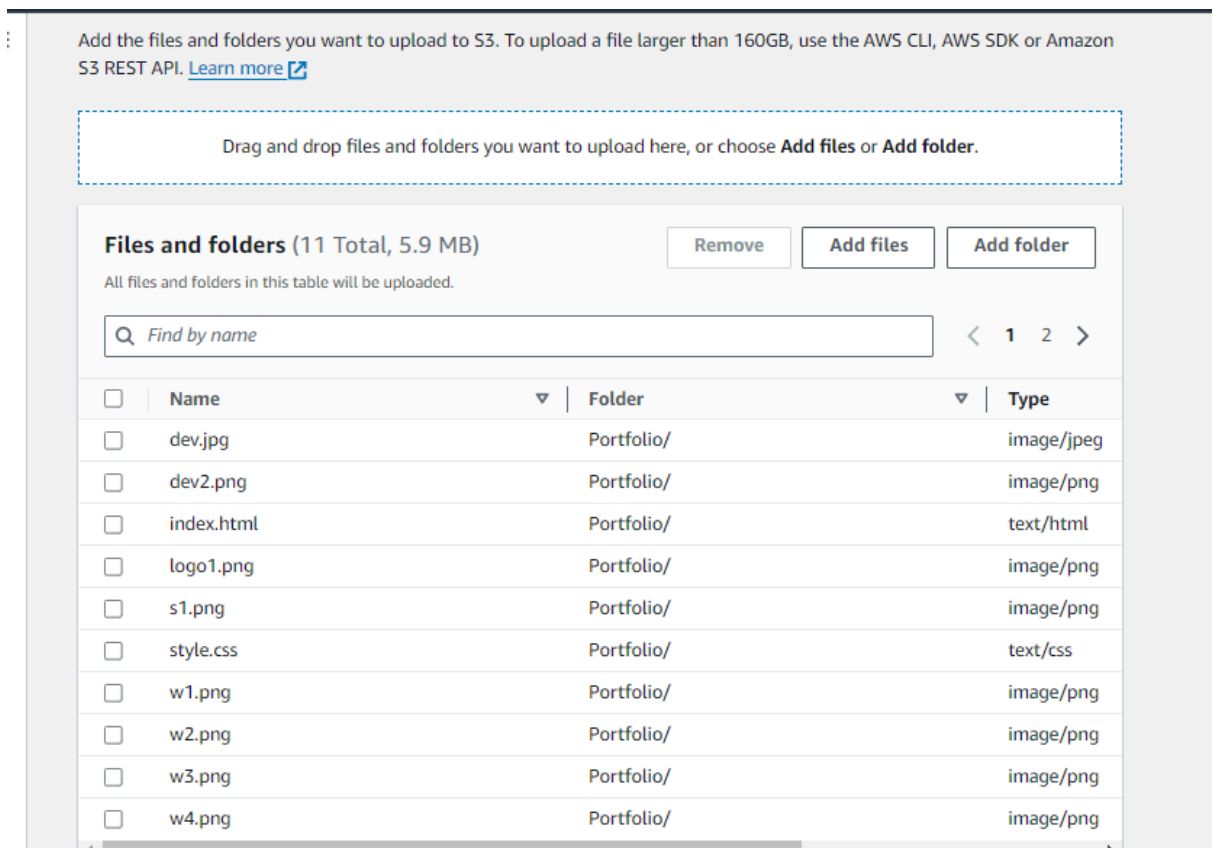
1. Select Your Bucket

From the list of buckets, select the bucket you just created.



2. Upload Files

Click the “Upload” button and add your static website files (e.g., `index.html`, `style.css` etc).



3. Review and Upload

Review the files and click “Upload.”

[s3://deven-host-static-website](#)

► **Destination details**
Bucket settings that impact new objects stored in the specified destination.

► **Permissions**
Grant public access and access to other AWS accounts.

► **Properties**
Specify storage class, encryption settings, tags, and more.

Cancel **Upload**

✓ **Upload succeeded**
View details below.

Files and folders (11 Total, 5.9 MB)

Find by name

Name	Folder	Type	Size	Status	Error
dev.jpg	Portfolio/	image/jpeg	41.0 KB	✓ Succeeded	-
dev2.png	Portfolio/	image/png	622.9 KB	✓ Succeeded	-
index.html	Portfolio/	text/html	6.4 KB	✓ Succeeded	-
logo1.png	Portfolio/	image/png	3.0 KB	✓ Succeeded	-
s1.png	Portfolio/	image/png	5.2 KB	✓ Succeeded	-
style.css	Portfolio/	text/css	7.2 KB	✓ Succeeded	-
w1.png	Portfolio/	image/png	2.6 MB	✓ Succeeded	-
w2.png	Portfolio/	image/png	714.1 KB	✓ Succeeded	-
w3.png	Portfolio/	image/png	1.2 MB	✓ Succeeded	-
w4.png	Portfolio/	image/png	668.9 KB	✓ Succeeded	-

3. Configure Bucket for Website Hosting

1. Open Bucket Properties

Select your bucket and go to the “Properties” tab.

Amazon S3 > Buckets > deven-host-static-website

deven-host-static-website [Info](#)

Objects **Properties** Permissions Metrics Management Access Points

Bucket overview

AWS Region US West (Oregon) us-west-2	Amazon Resource Name (ARN) arn:aws:s3:::deven-host-static-website	Creation date September 11, 2024, 15:45:44 (UTC+05:30)
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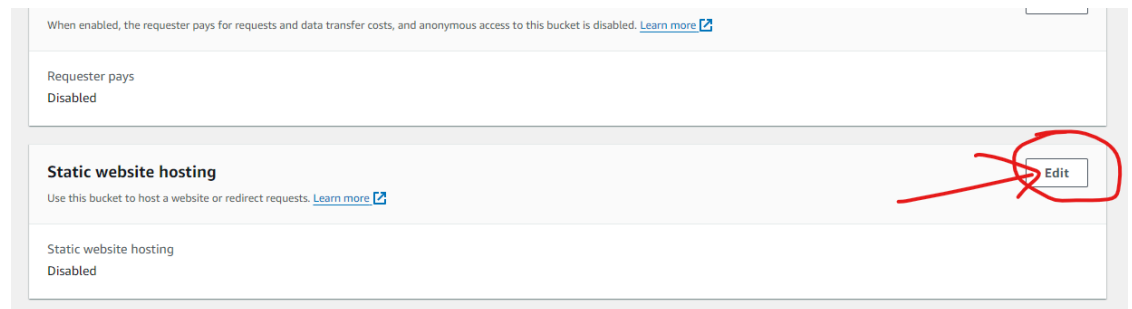
Bucket Versioning [Edit](#)

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](#)

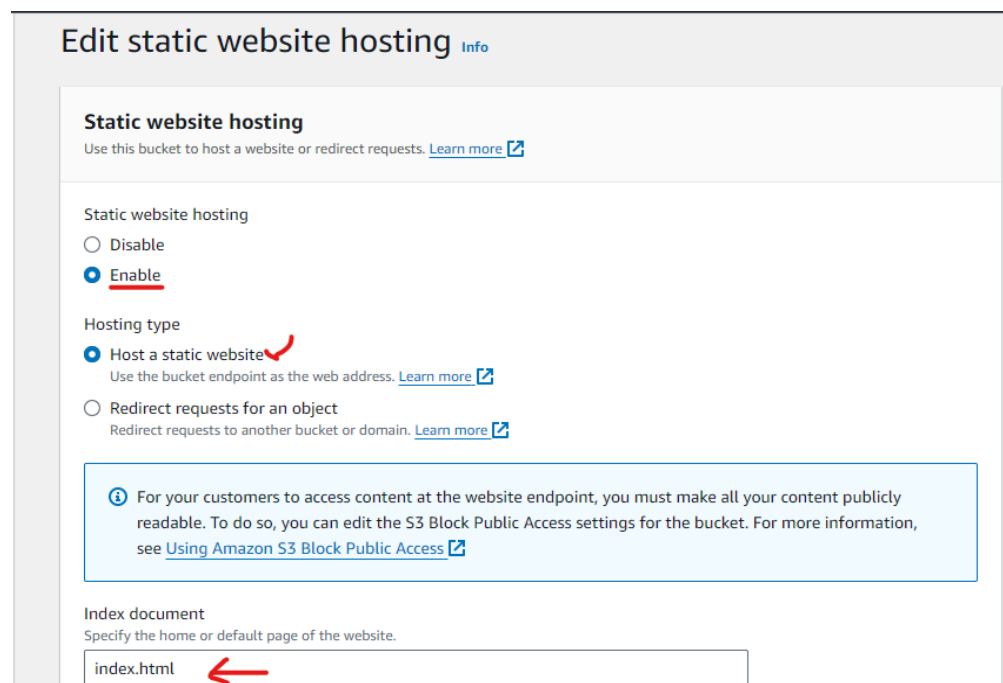
Bucket Versioning
Disabled

2. Enable Static Website Hosting

- Scroll to the “Static website hosting” section and click “Edit.”

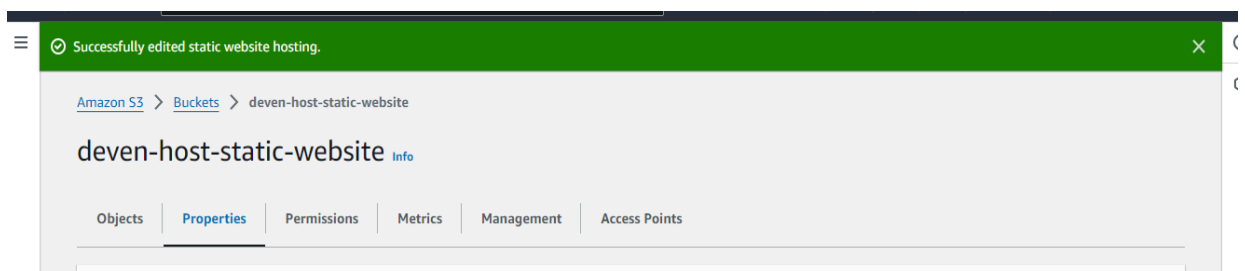


- Choose “Enable” and enter the name of your index document (e.g., `index.html`). Optionally, specify an error document.



3. Save Changes

Click “Save changes” to apply the configuration.



4. Note the Endpoint URL

You will see an endpoint URL under the static website hosting section. This is the URL where your website will be accessible.

Static website hosting

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

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://deven-host-static-website.s3-website-us-west-2.amazonaws.com>

4. Set Bucket Policy for Public Access

1. Open Bucket Permissions

Go to the “Permissions” tab of your bucket.

Amazon S3 > Buckets > deven-host-static-website

deven-host-static-website Info

Objects | Properties | **Permissions** | Metrics | Management | Access Points

Permissions overview

Access finding

Access findings are provided by IAM external access analyzers. Learn more about [How IAM analyzer findings work](#)

[View analyzer for us-west-2](#)

2. Edit Bucket Policy

Click “Edit” under the “Bucket policy” section.

Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

Edit **Delete**

No policy to display. **Copy**

Add a Policy for Public Access

Add the following policy to allow public read access:

json

Copy code

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "PublicReadGetObject",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::deven-host-static-website/*"
    }
  ]
}
```

3. Save Changes

Click "Save changes" to apply the policy.

Policy

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Sid": "PublicReadGetObject",
6       "Effect": "Allow",
7       "Principal": "*",
8       "Action": "s3:GetObject",
9       "Resource": "arn:aws:s3:::deven-host-static-website/*"
10    }
11  ]
12 }
13
```

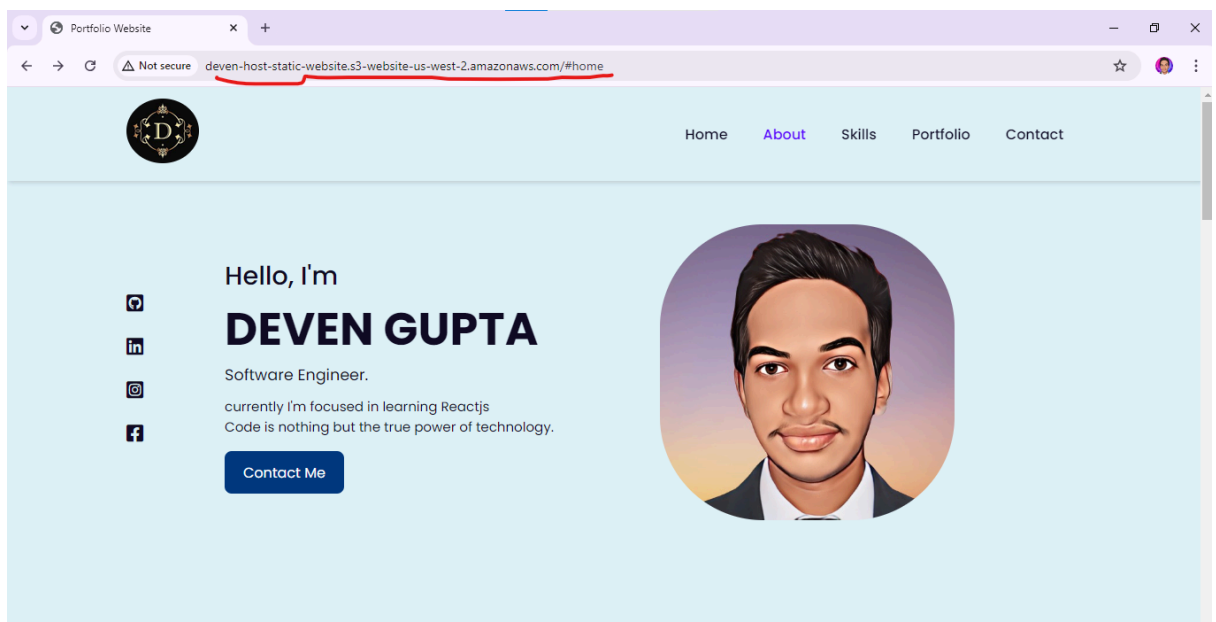
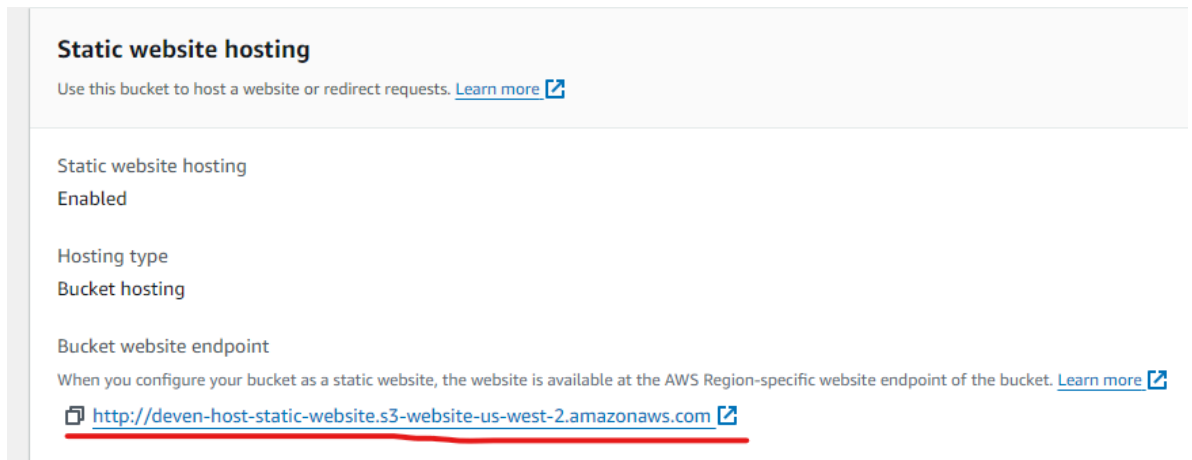
Cancel

Save changes

5. Access Your Website

1. Open Your Website URL

Use the endpoint URL noted earlier to access your static website.



Additional Resources

- [AWS S3 Documentation](#)
- [AWS S3 Static Website Hosting Guide](#)