

**ASSIGNMENT-3**

**AIM-** To study AWS S3 service and create a bucket for hosing static web application.

**THEORY-**

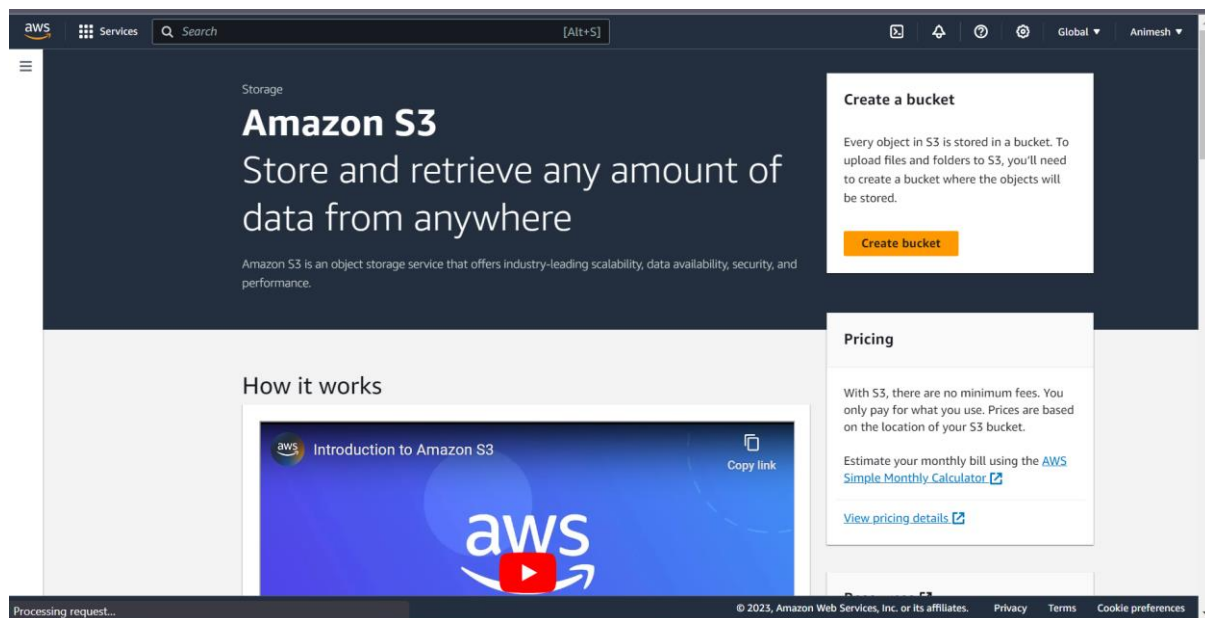
AWS Simple Storage Service (S3) from the aforementioned list, S3, is the object storage service provided by AWS. It is probably the most commonly used, go-to storage service for AWS users given the features like extremely high availability, security, and simple connection to other AWS Services.

An Amazon S3 bucket can be set up to operate similarly to a website. This section illustrates how to host a website using Amazon S3. There are mainly 7 steps to hosting a static website using Amazon Web Service(AWS) S3.

**STEPS:**

**Step 1: Creating a Bucket**

1. First, we have to launch our S3 instance. Follow these steps for creating a Bucket
2. Open the Amazon S3 console by logging into the AWS Management Console at



**Step 2: Block Public Access settings for the bucket**

1. Uncheck (Block all public access) for the public, otherwise set default. If you uncheck (Block all public keys).

**Create bucket** [Info](#)

Buckets are containers for data stored in S3. [Learn more](#)

**General configuration**

Bucket name

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

AWS Region

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

**Object Ownership** [Info](#)

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

4. Choose Bucket Name – Bucket Name Should be Unique

5. Object Ownership – Enable for making Public, Otherwise disable

**Object Ownership** [Info](#)

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

☐ ACLs disabled (recommended)  
 All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

☒ ACLs enabled  
 Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

**⚠️ We recommend disabling ACLs, unless you need to control access for each object individually or to have the object writer own the data they upload. Using a bucket policy instead of ACLs to share data with users outside of your account simplifies permissions management and auditing.**

**Object Ownership**

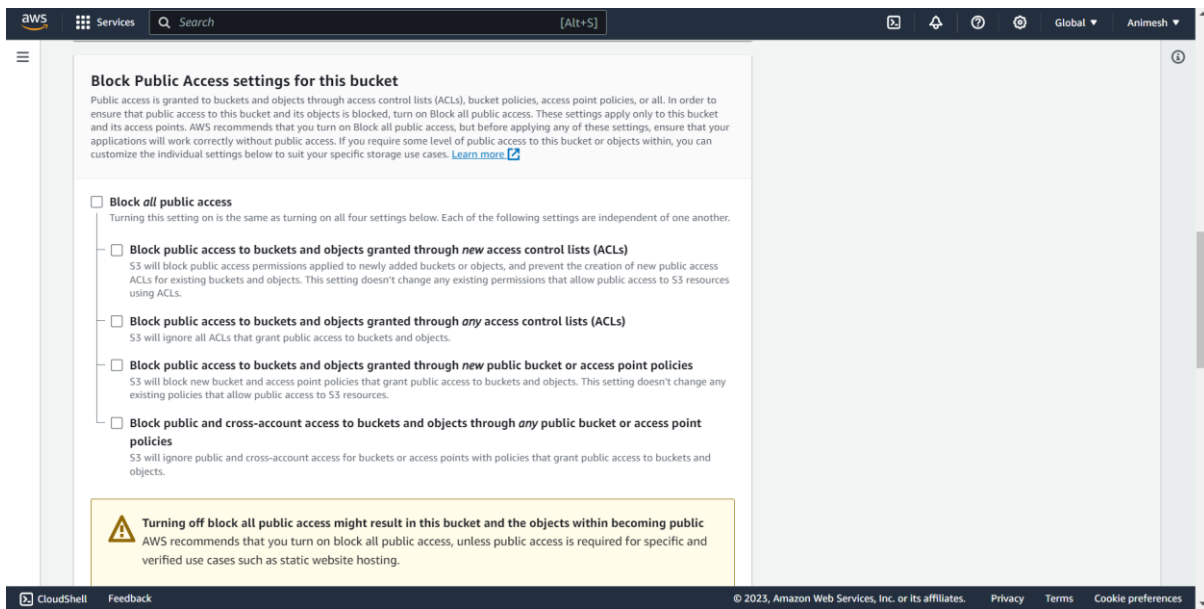
☒ Bucket owner preferred  
 If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.

☐ Object writer  
 The object writer remains the object owner.

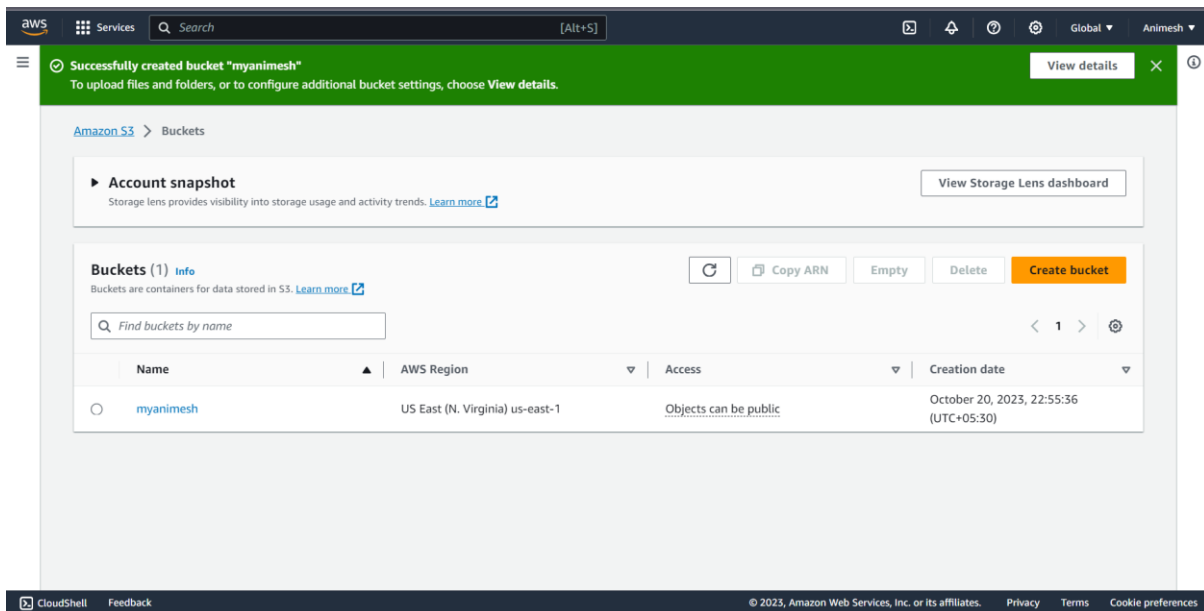
**ℹ️ If you want to enforce object ownership for new objects only, your bucket policy must specify that the bucket-owner-full-control canned ACL is required for object uploads. [Learn more](#)**

## Step 2: Block Public Access settings for the bucket

1. Uncheck (Block all public access) for the public, otherwise set default. If you uncheck (Block all public keys).



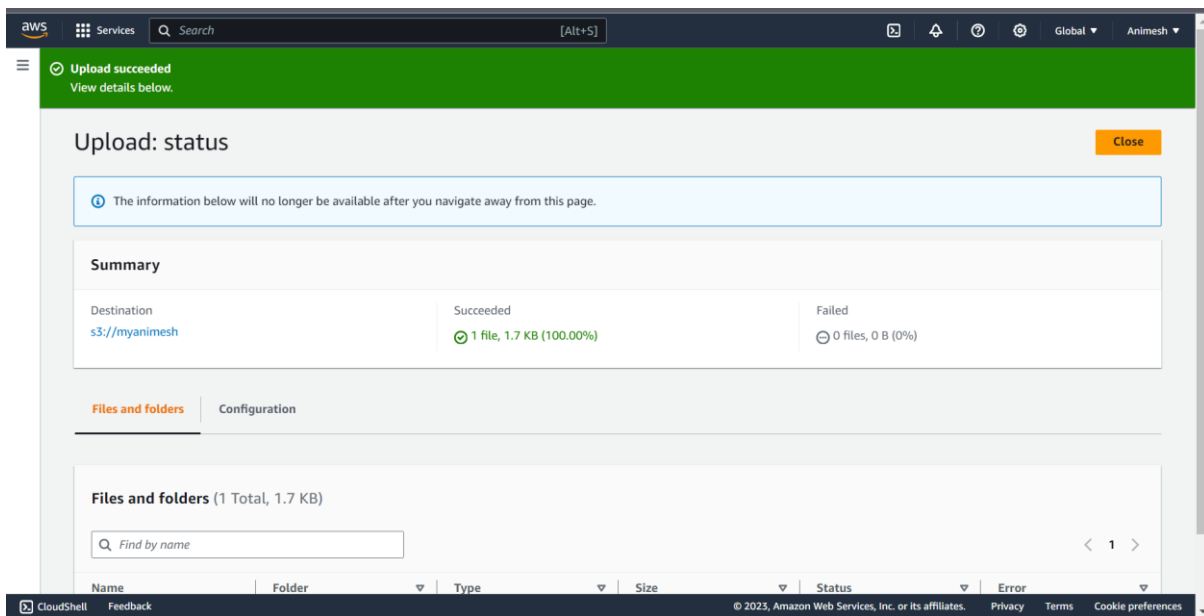
2. Now click on create bucket  
Select Bucket and Click your Bucket Name.
3. Bucket is created



### Step 3: Now upload code files

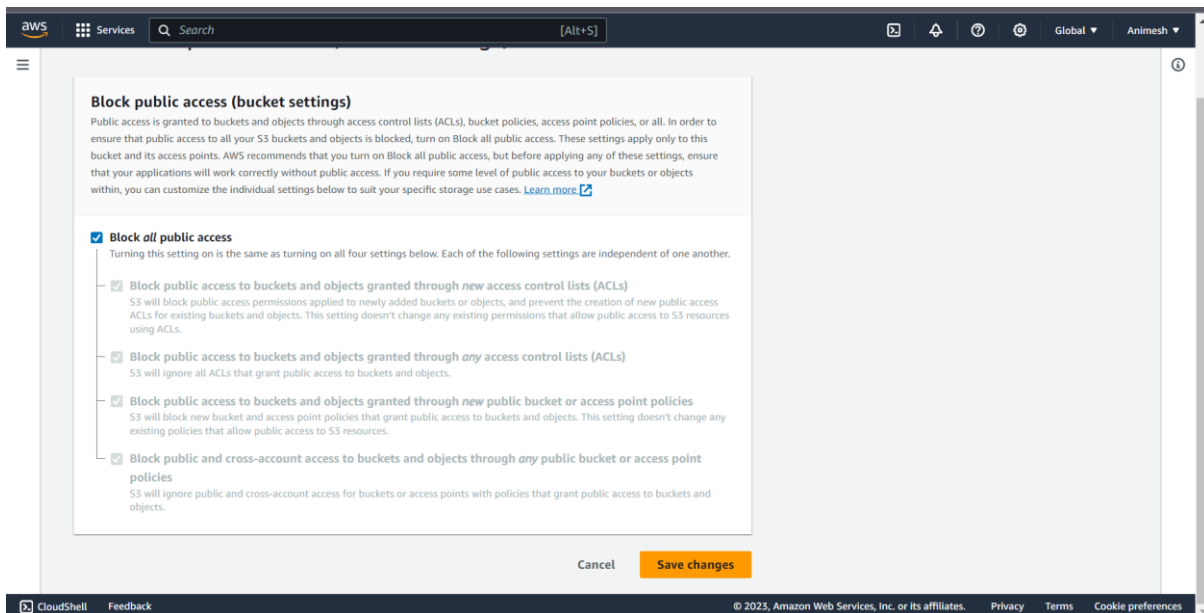
Select Bucket and Click your Bucket Name.

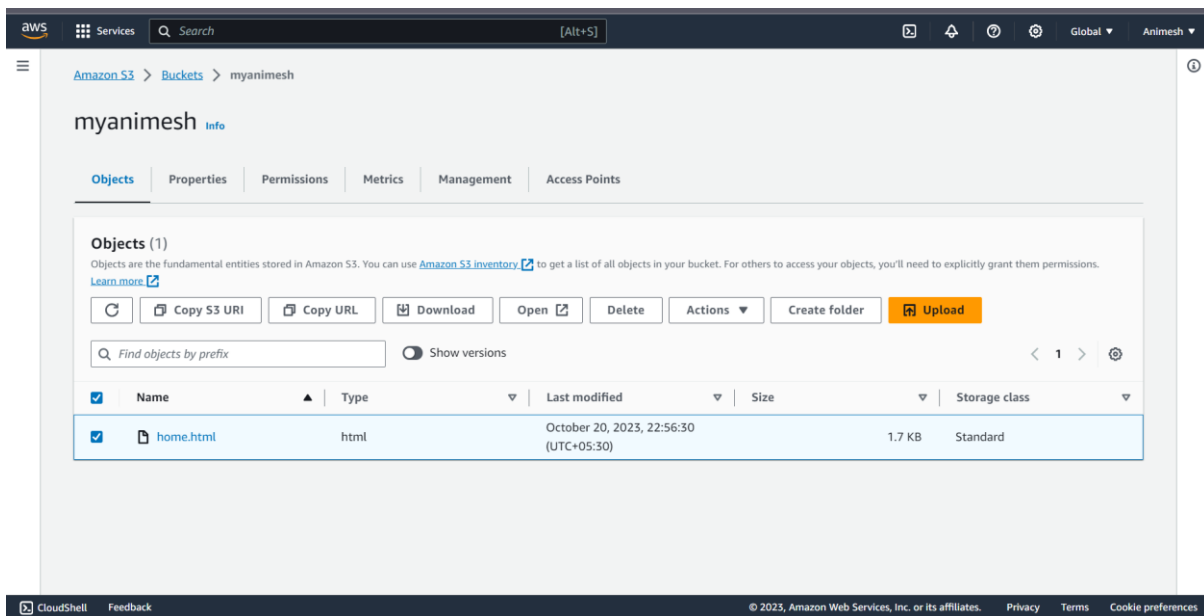
Now, click on upload (then click add File/folder) and select your HTML code file from your PC/Laptop.



**Step 4: Once the Files are uploaded successfully, click on Permissions and now follow this Process –**

- Block public access
- Object Ownership
- Make public Object





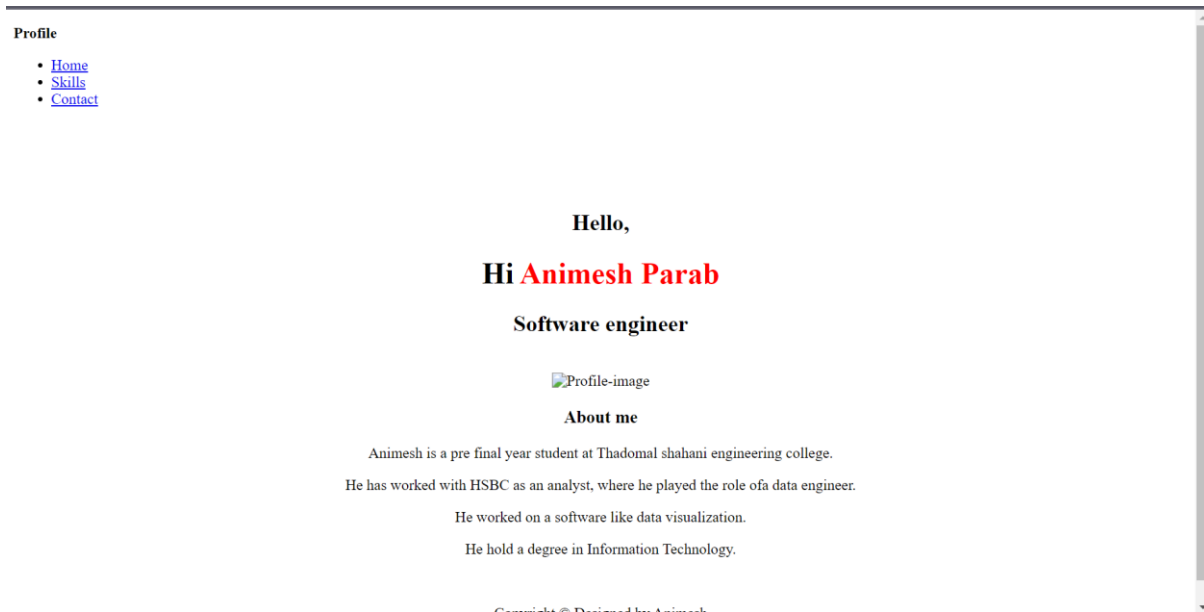
## Step 5: Copy your Object URL

Now, click on your HTML File Object Name.

Copy the Object URL.

## Step 6

**Check out your Website!**



**CONCLUSION** This experiment demonstrated how to utilize AWS S3, a powerful and cloud storage solution, to host a static web application. S3's ability to serve Directly Paste this URL into the Other Tab or your other System. static content with low latency and high reliability makes it a suitable choice for hosting static websites. By completing this experiment, we gained practical insights into leveraging cloud services for web hosting, which is vital for modern web development and deployment. AWS S3 offers a cost-effective and efficient solution for hosting various types of web applications, contributing to the agility and scalability of web development projects.