



## **TASK REPORT**

**Create a static website hosted on Amazon S3.**

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## Description

- Create a static website hosted on Amazon S3.
- Create a simple portfolio website using HTML and CSS, and host it on Amazon S3.
- Configure the necessary buckets, enable website hosting, and upload a basic HTML/CSS website.

## Introduction

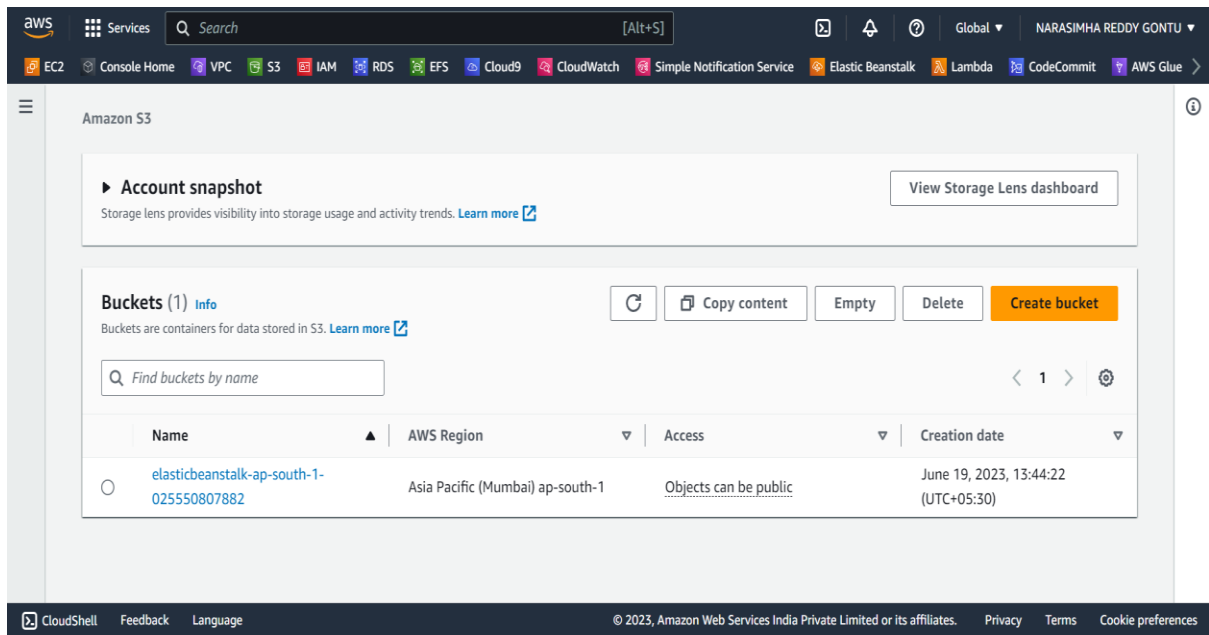
AWS S3 stands for Amazon Simple Storage Service. It is a cloud-based storage service that can scale to an enormous size and provide high performance, availability, reliability, and security. It is a very cost-effective and secure replacement for your on-premises data center. The data is stored on cloud servers can be accessed through other web applications and websites globally.

Apart from data storage functionality, the AWS S3 bucket provides a remarkable feature of static website hosting over it. A website that doesn't involve server-side communication is called a static website. In this guide, we will discuss a step-by-step procedure for hosting a static website on the AWS S3 bucket.

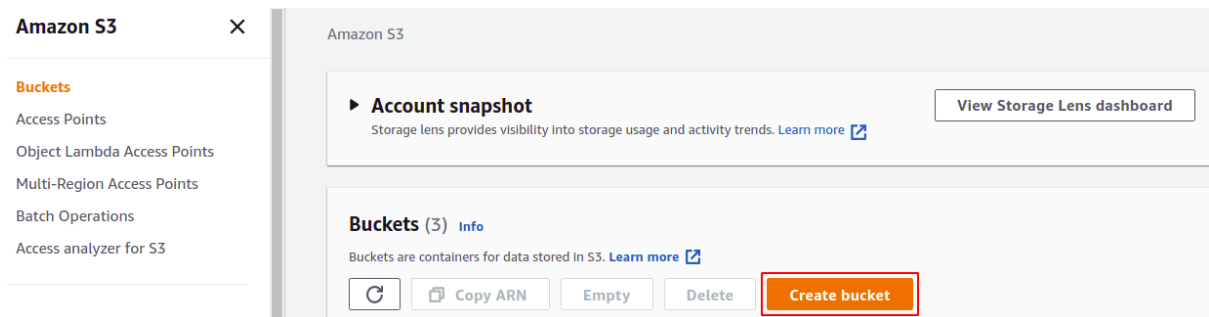
## Create an S3 bucket on AWS

The first step to hosting a static website on AWS S3 is to create an S3 bucket in your account. After creating the bucket, we will upload the website contents and files in our bucket. The website content will then be assigned specific permissions to be accessible to the public.

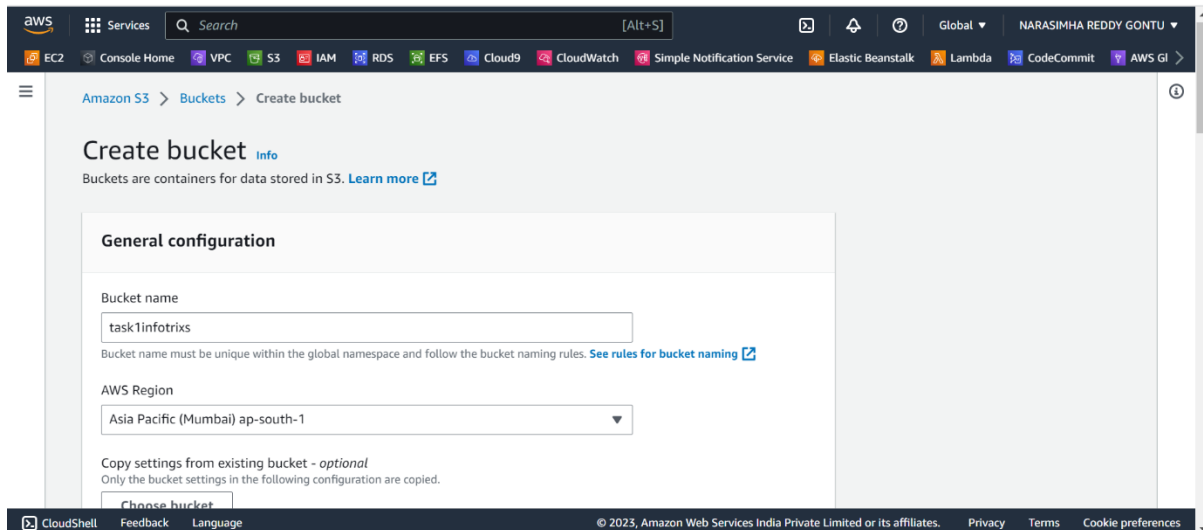
Login to your AWS management console and go to the search bar and search for **S3** there. This will lead you to your S3 dashboard:



Click on Create Bucket at the right corner of the S3 console:

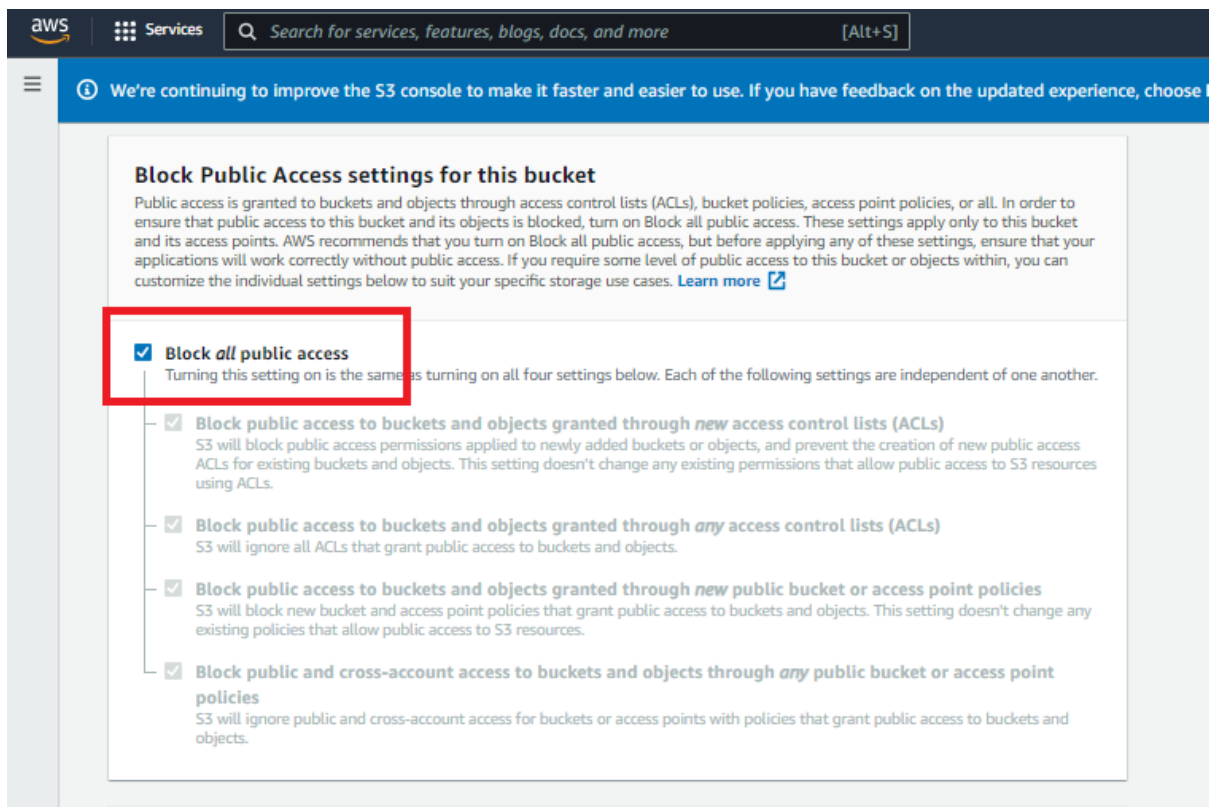


Next, you need to provide your S3 bucket name, the region where you want your bucket to be created, and then configure your bucket's security and privacy setting:

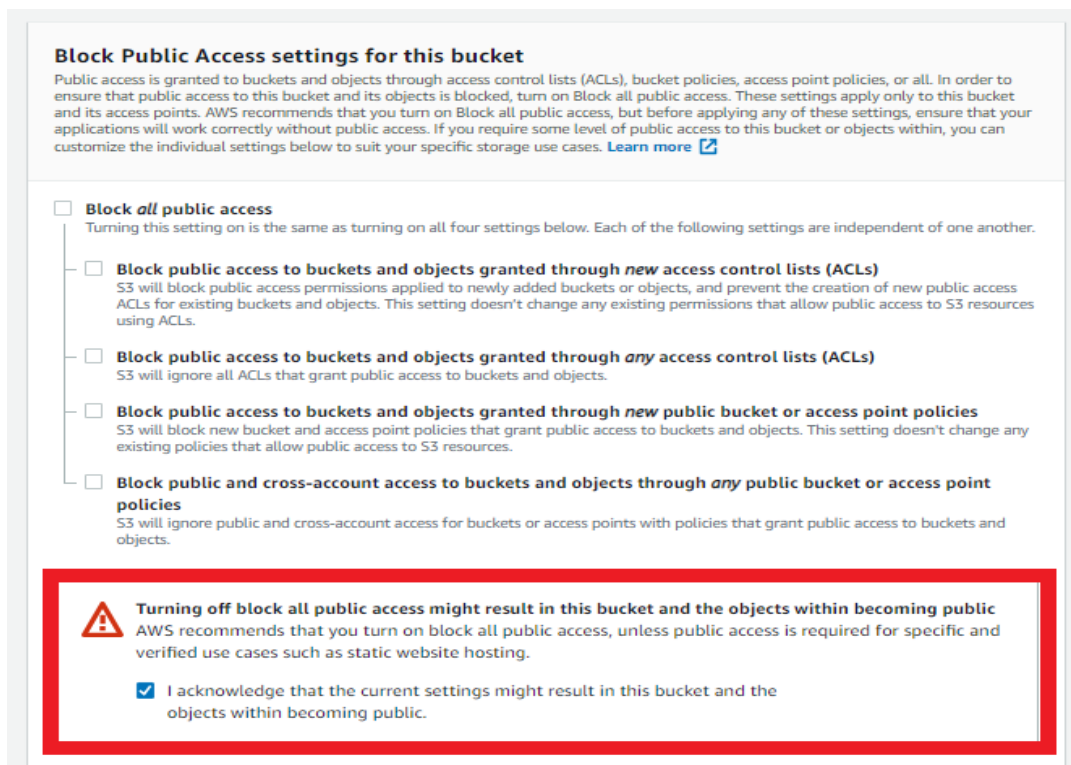


Enter Bucket Name, try to make it look like your domain. The bucket name should be unique for all AWS accounts around the world. Select the region in which the S3 bucket will be created. Try to select a region near the public that will access the website

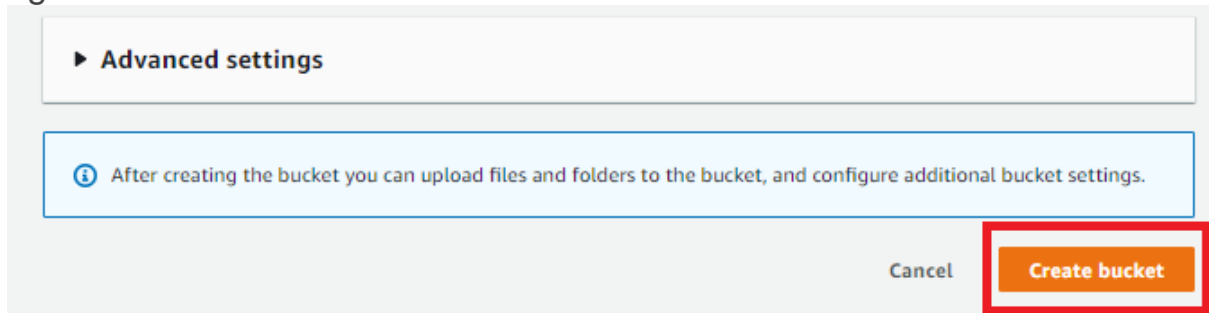
Since we wanted the website to be accessible to the audience, we had to grant the public access to the objects of this S3 bucket. For that, uncheck the Block all public access checkbox in the “Block Public Access setting for this bucket” section:



After configuring the public access settings, a section will appear to acknowledge the S3 bucket and its content being made public. Check the box to acknowledge it:



Now, you have finished setting up your bucket, leave other options and settings as it is, and just click on the **Create Bucket** button at the bottom right corner:

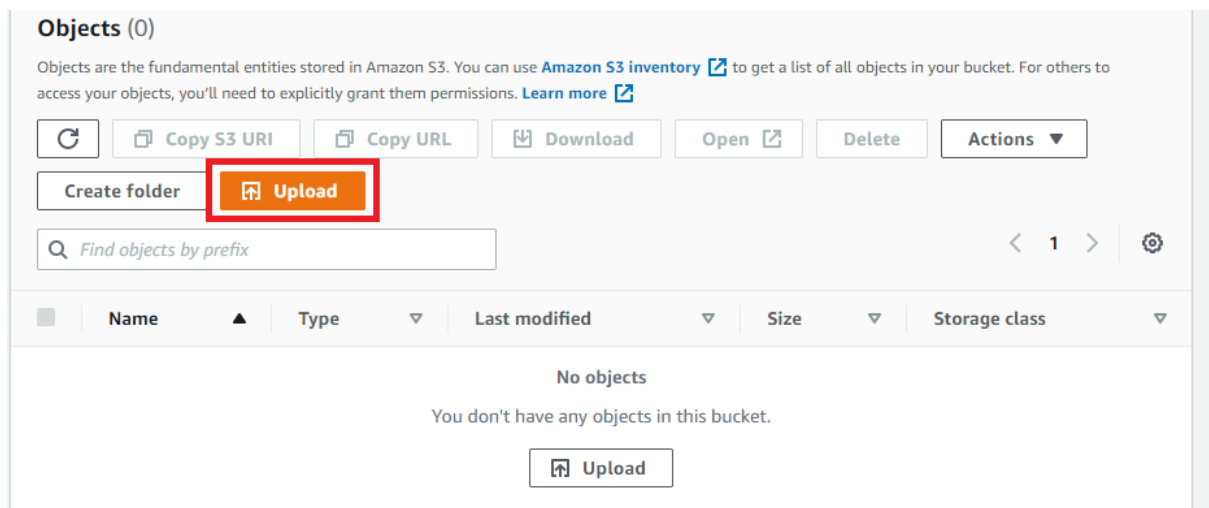


If the bucket name you specified is unique, the S3 bucket will be created. Otherwise, you will get an error, and you have to change the bucket name.

## Upload Your Website to the S3 Bucket

After creating the S3 bucket, it is time to upload website content to the S3 bucket. From the S3 console, select the S3 bucket you just created:

Go to the **Objects** section, and then Click on the upload button. Now, browse your system for the directory you want to upload into the S3 bucket. Select the static website directory and upload it to the S3 bucket:



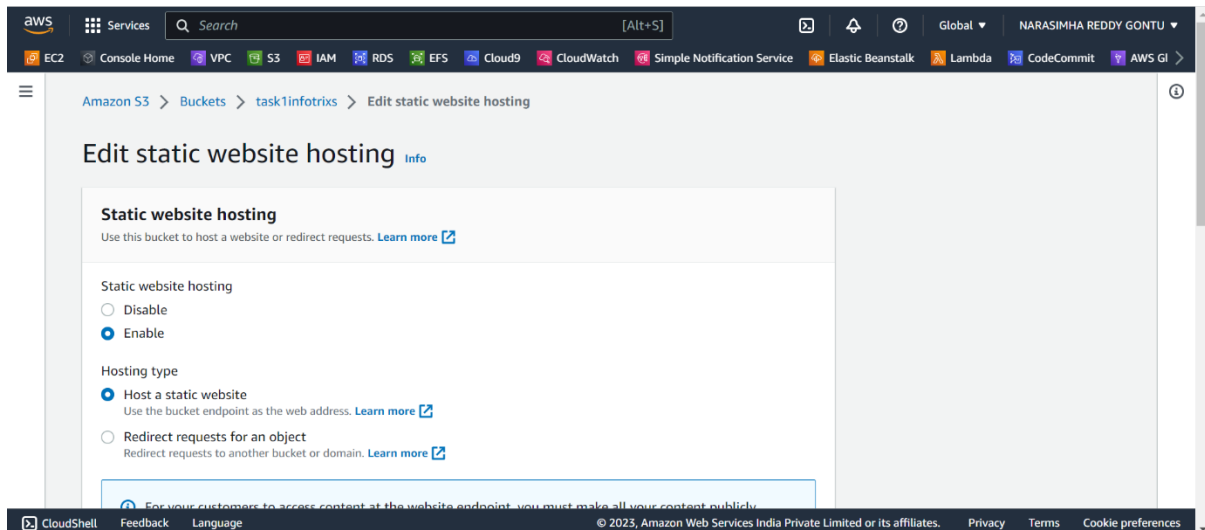
Uploading the static site content may take some time depending upon the size of the folder:



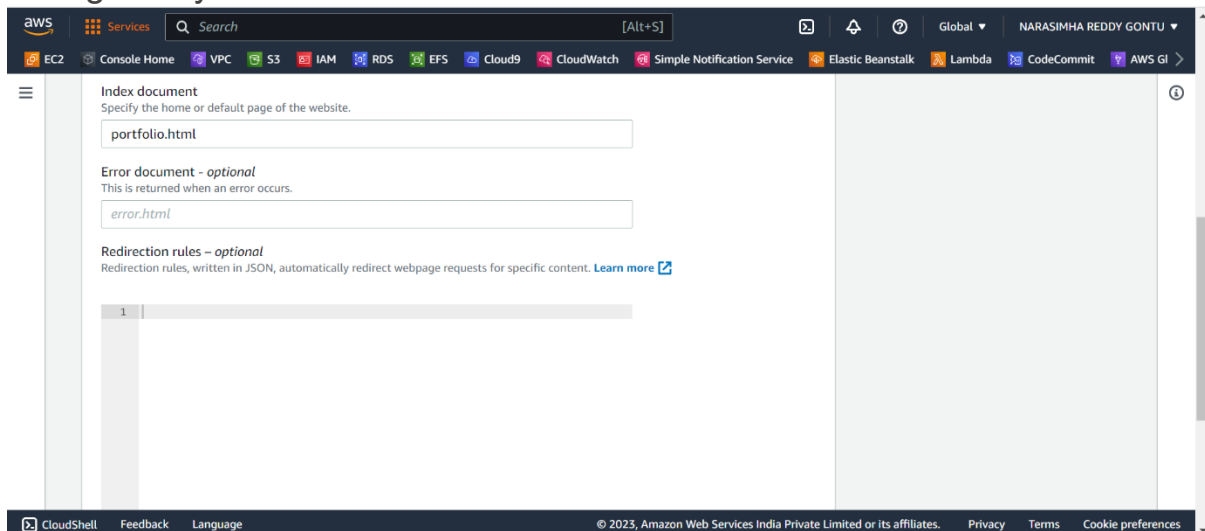
After a successful upload, click close at the right corner. You will be directed back to the object section.

## Setting up Static Web Hosting in S3 Bucket

After uploading the static site content, enable hosting on your S3 bucket. In order to allow static website hosting on your S3 bucket, go to the properties tab from the top menu in the S3 bucket:

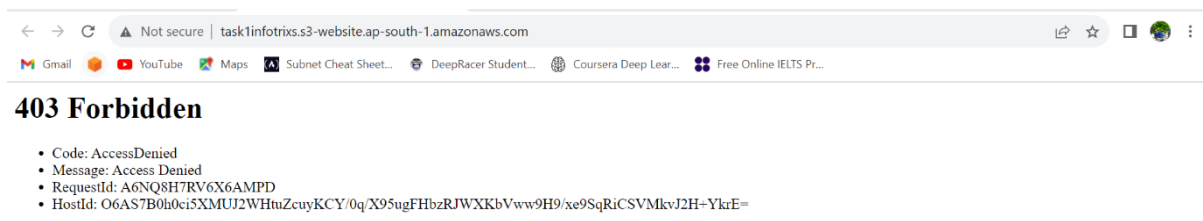
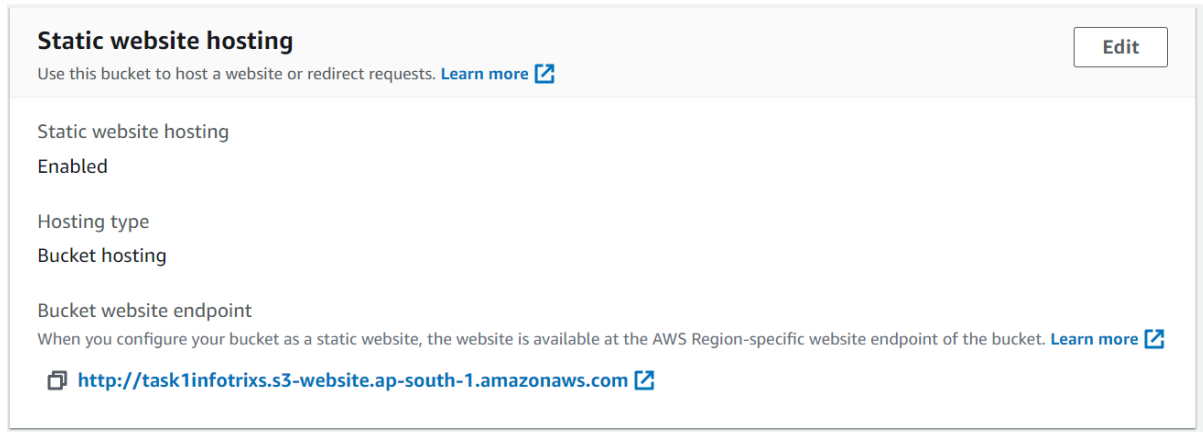


Click on the Edit button in the Static website hosting section and enable the hosting. After enabling static website hosting, specify the index file of your project (the opening page of your website or web application). In this case, it is index.html. Also, if there is an error file in your project, you must specify it in the error document field. This will appear in case your actual web page is not reachable. Now, click on the **Save changes** button to apply the changes to your S3 bucket:



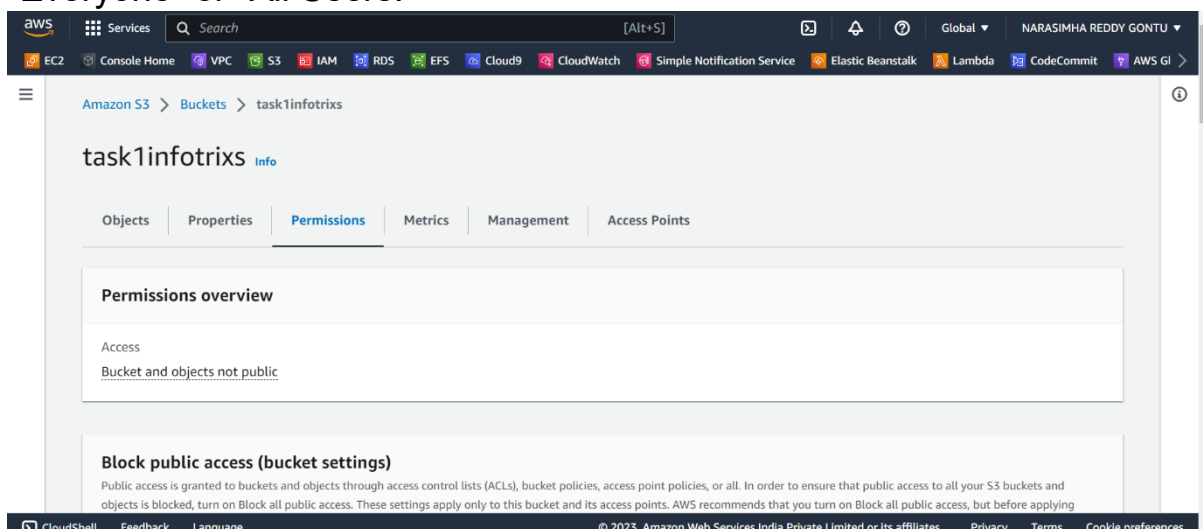


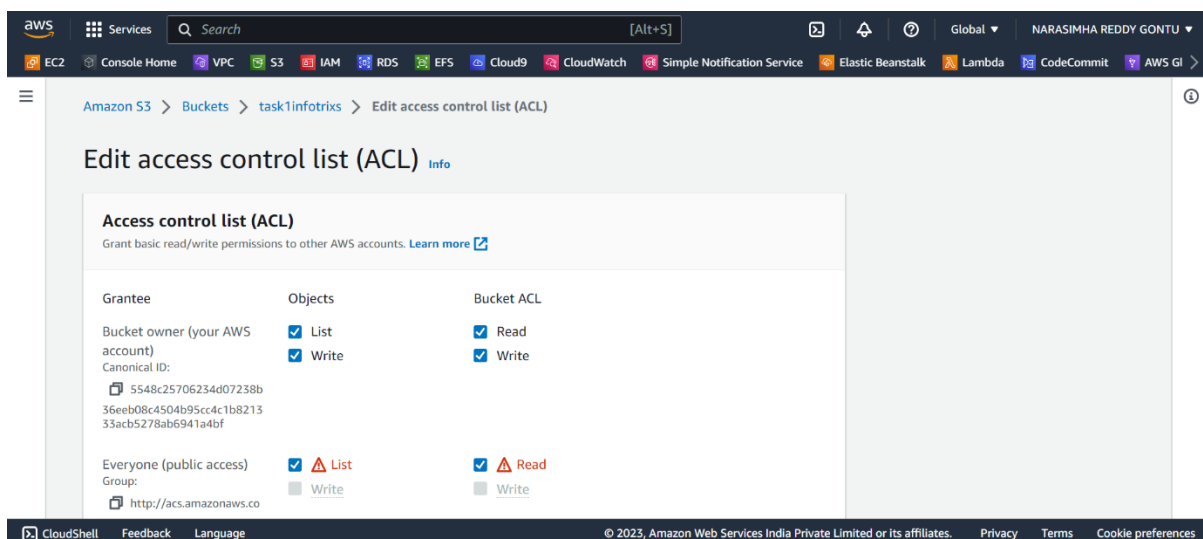
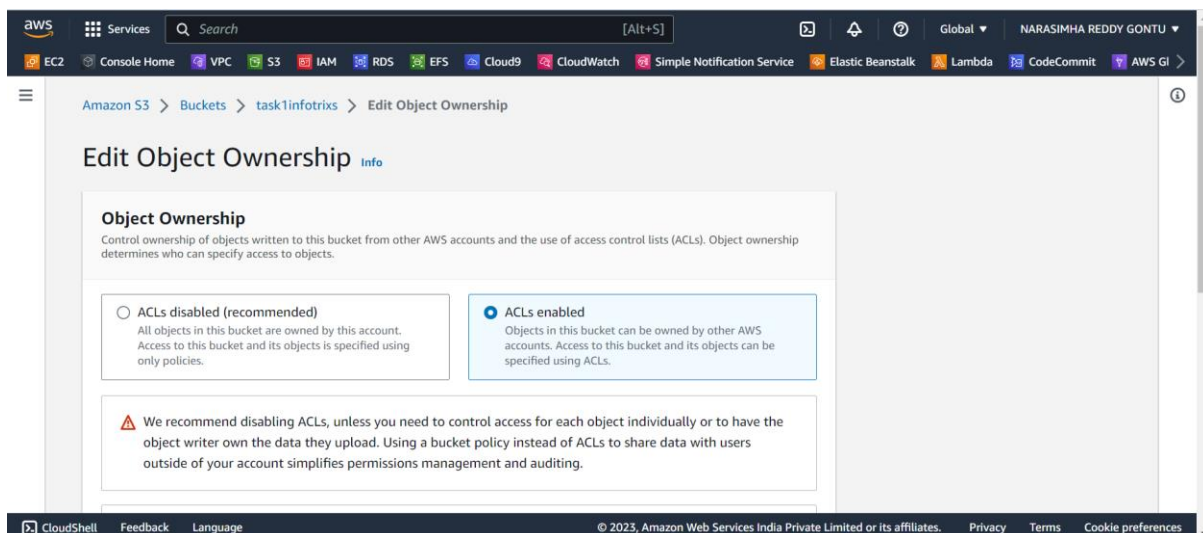
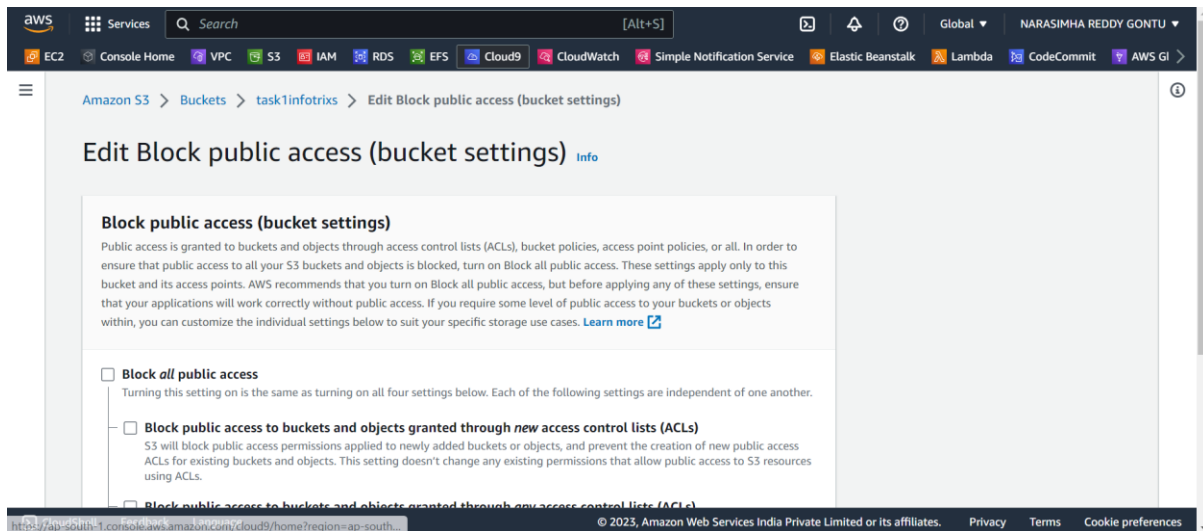
Now, our S3 bucket is hosting the website content uploaded to it and is publicly accessible. In order to access the website, we need a public URL that AWS itself provides. This URL can be seen in the static website hosting section of the S3 bucket:

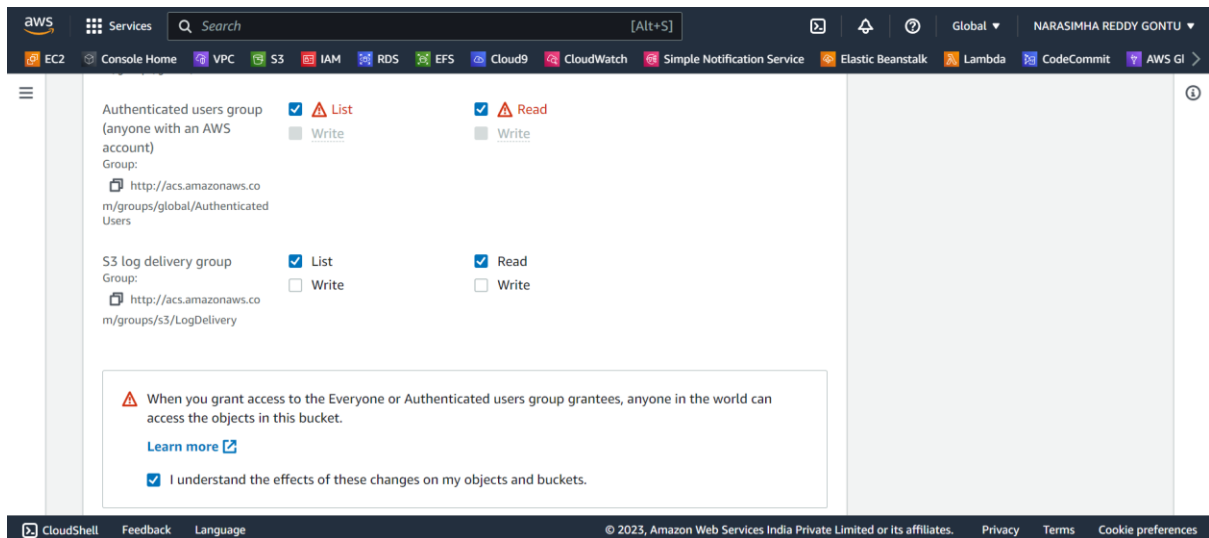


## Setting up Permissions in S3 Bucket

Configure the bucket and object permissions to allow public access. Use a bucket policy or access control lists (ACLs) to grant read permissions to "Everyone" or "All Users."







## Accessing the Website Through URL

After setting the permissions for the bucket, it's time to access the webpage through the URL.

