Lesson 05 Demo 09

Creating Cache Configuration and Invalidation

Objective: To configure CloudFront distributions and perform cache invalidation to ensure timely updates of content served through Amazon CloudFront

Tools required: AWS workspace

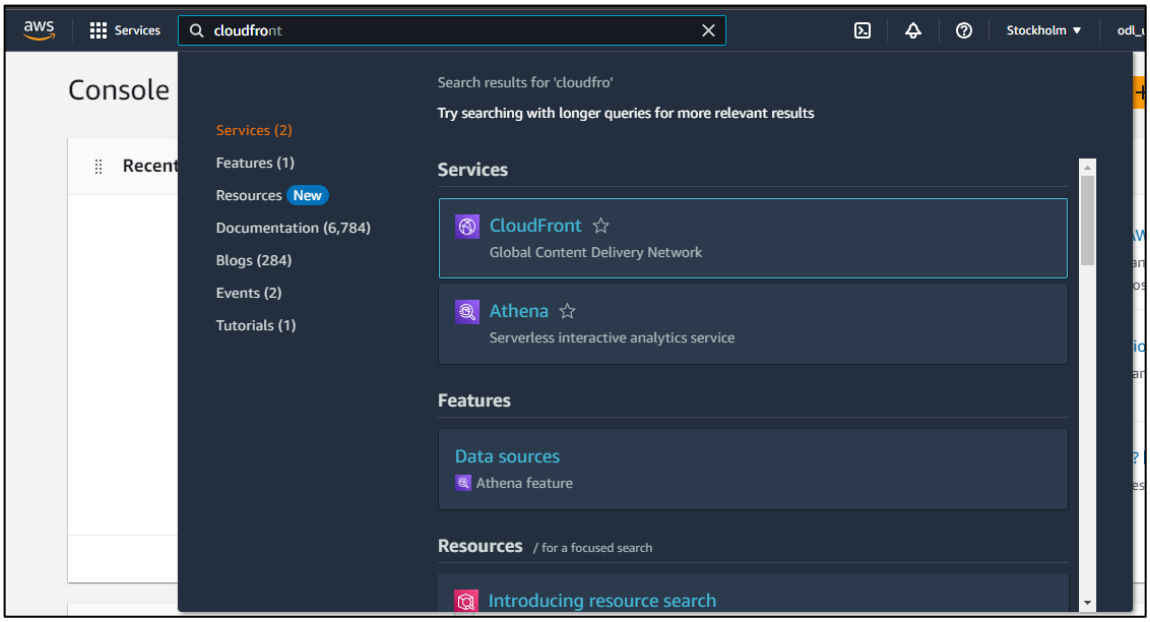
Prerequisites: Create an S3 bucket and have a text file uploaded

Steps to be followed:

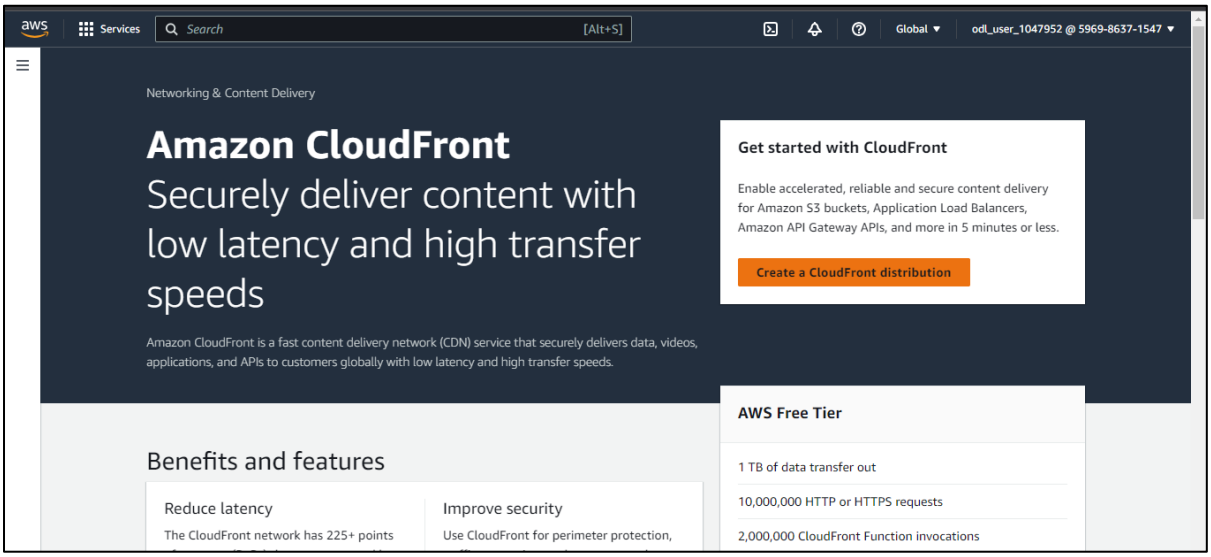
1. Create Distributions
2. Create Invalidation

Step 1: Create Distributions

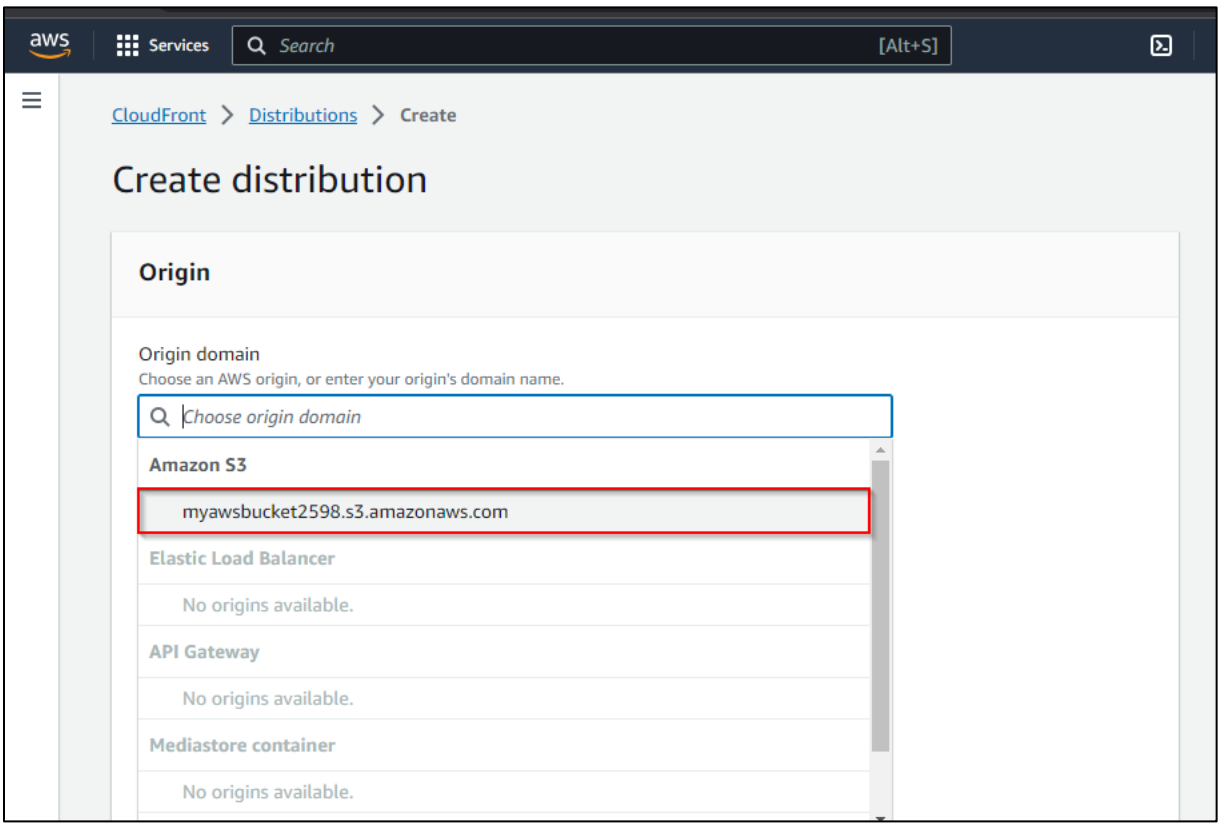
1.1 Navigate to the AWS Management Console and select **CloudFront**



1.2 Click on the **Create a CloudFront distribution** button

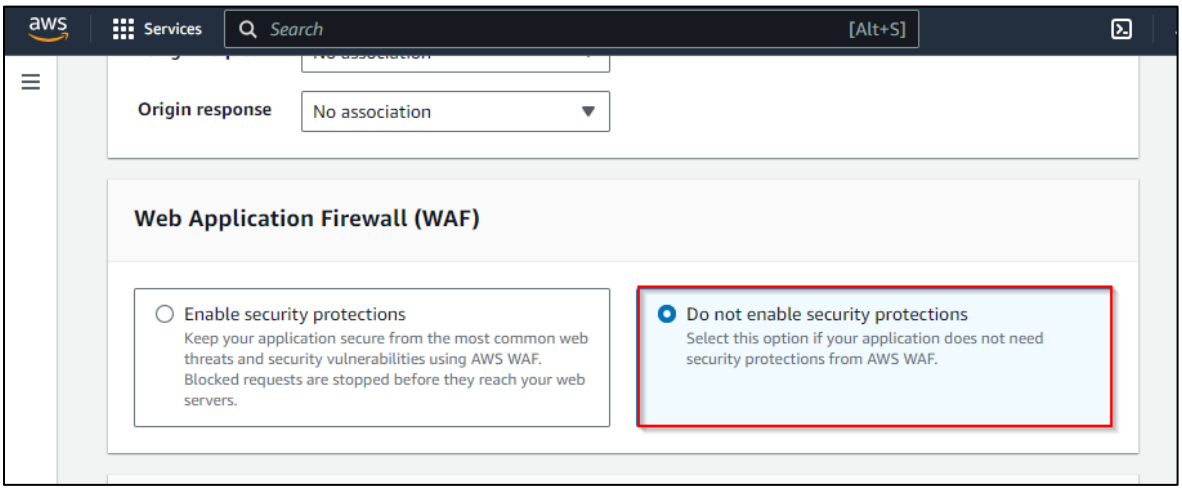


1.3 Choose the **S3 bucket** you have previously created as the origin domain

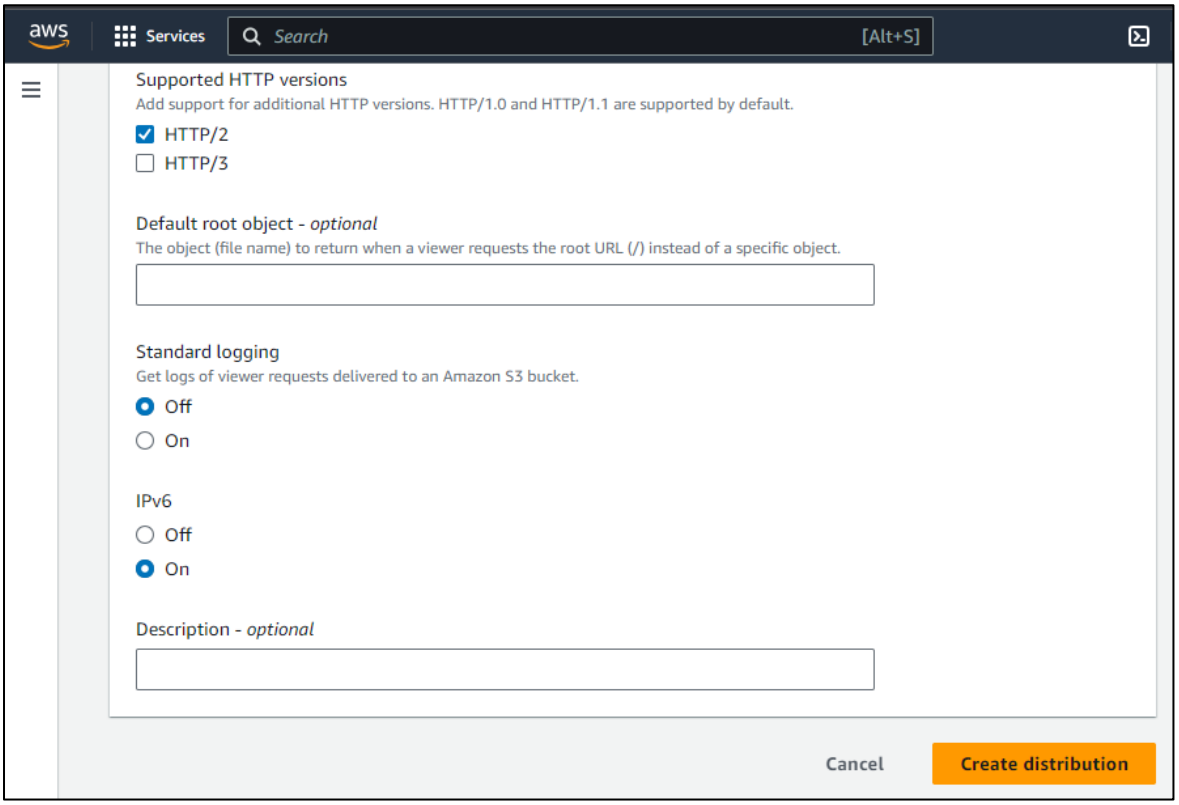


Please refer to the previous demos to know how to create an S3 bucket.

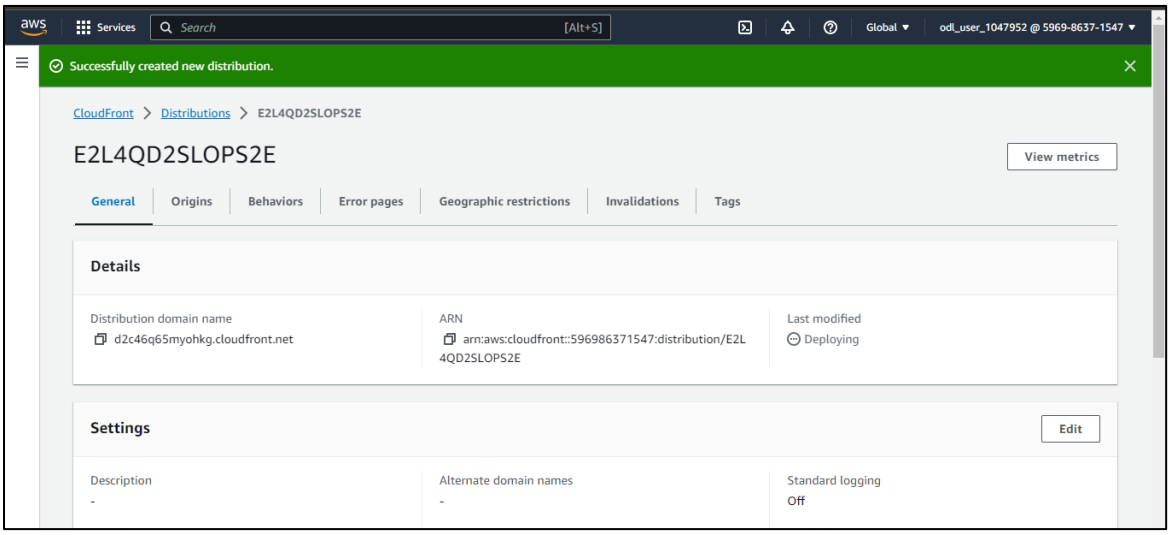
1.4 Select **Do not enable security protections** for simplicity



1.5 Choose the default settings and click on **Create distribution**



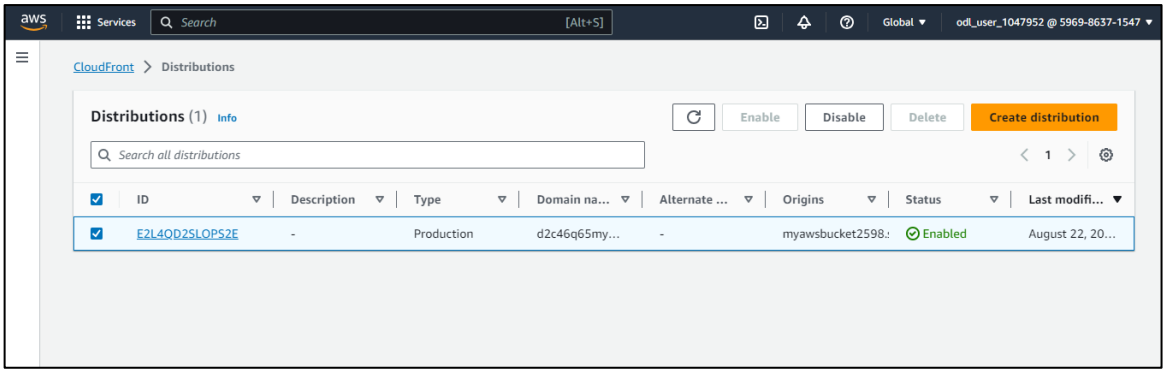
Refer to the previous demos for how to create an S3 bucket.



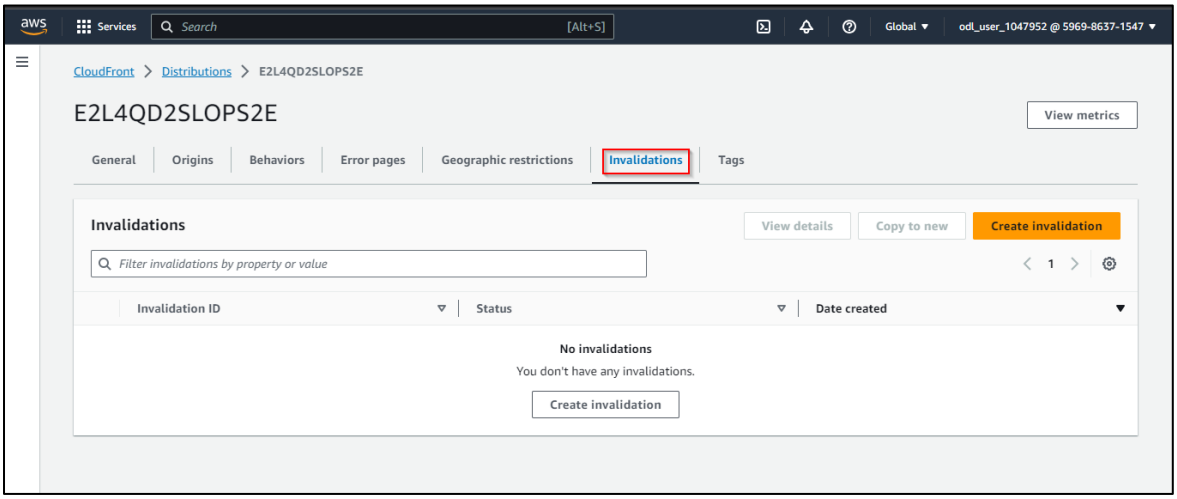
CloudFront distribution has been successfully created.

Step 2: Create Invalidation

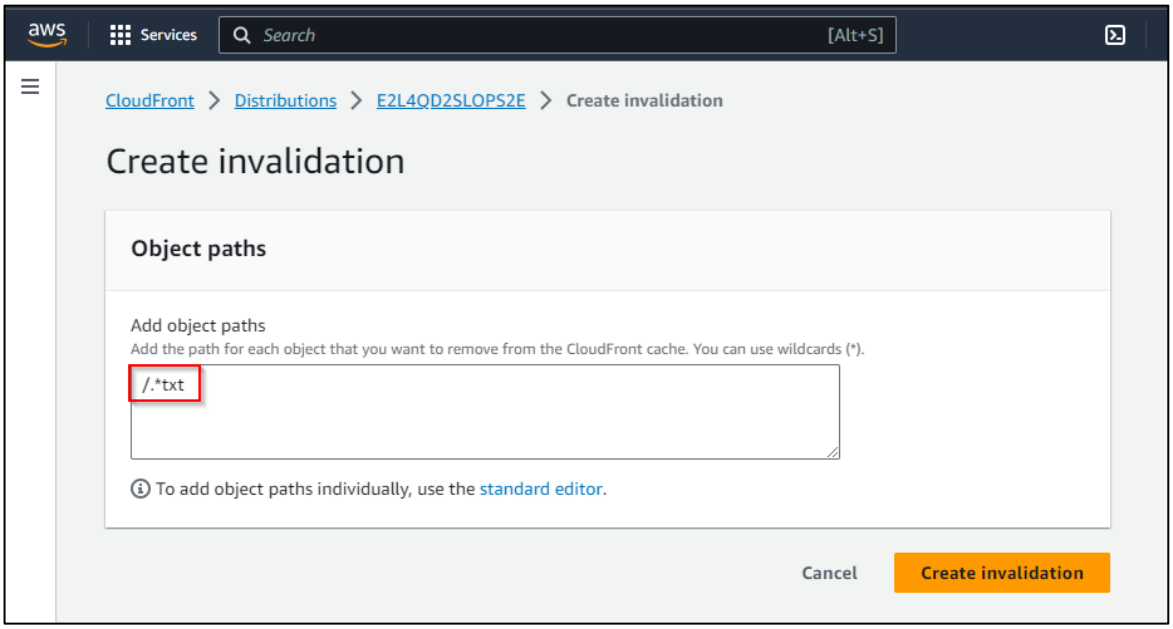
2.1 Select the **CloudFront distribution** that you had created

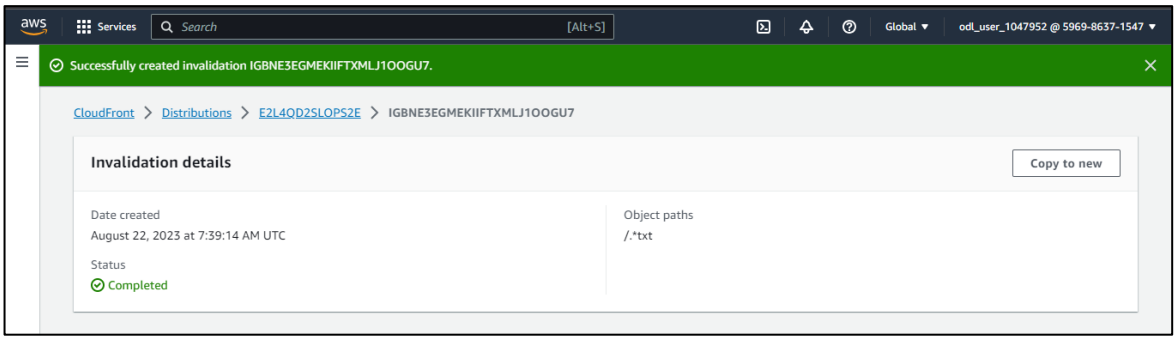


2.2 Navigate to **Invalidations** and then click on **Create invalidation**

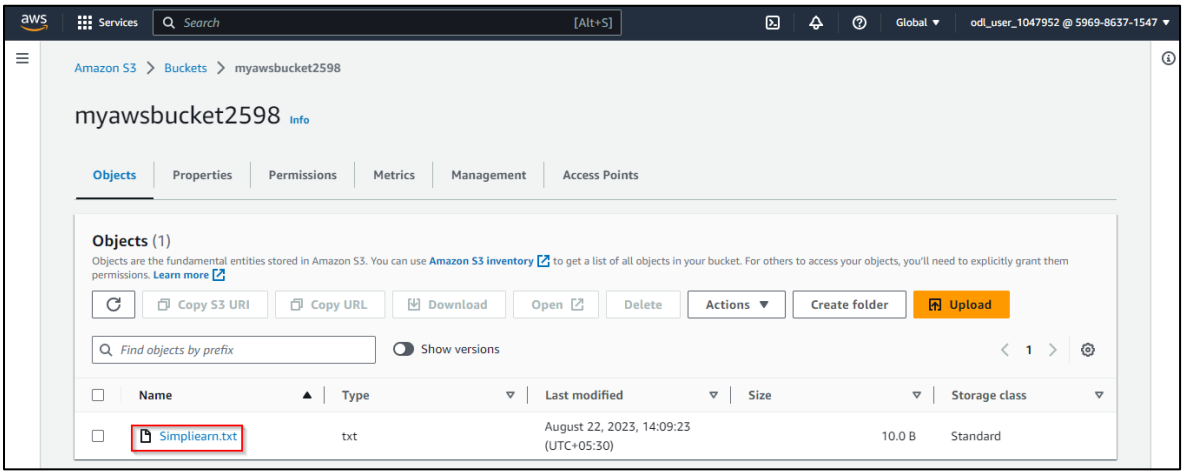


2.3 Enter **/.*txt** under **Object paths,** and click on **Create invalidation**

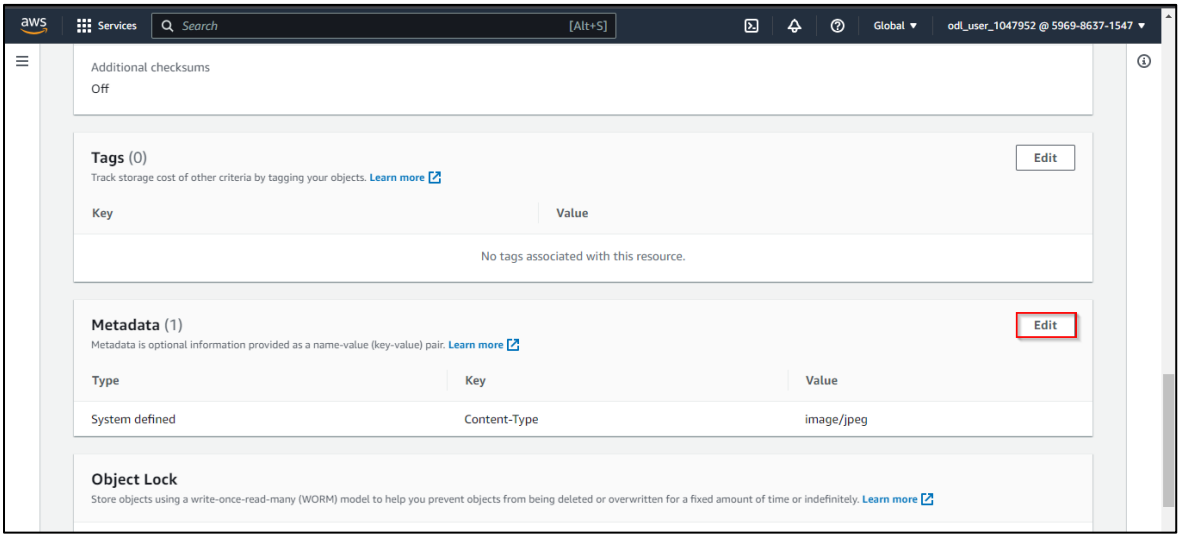




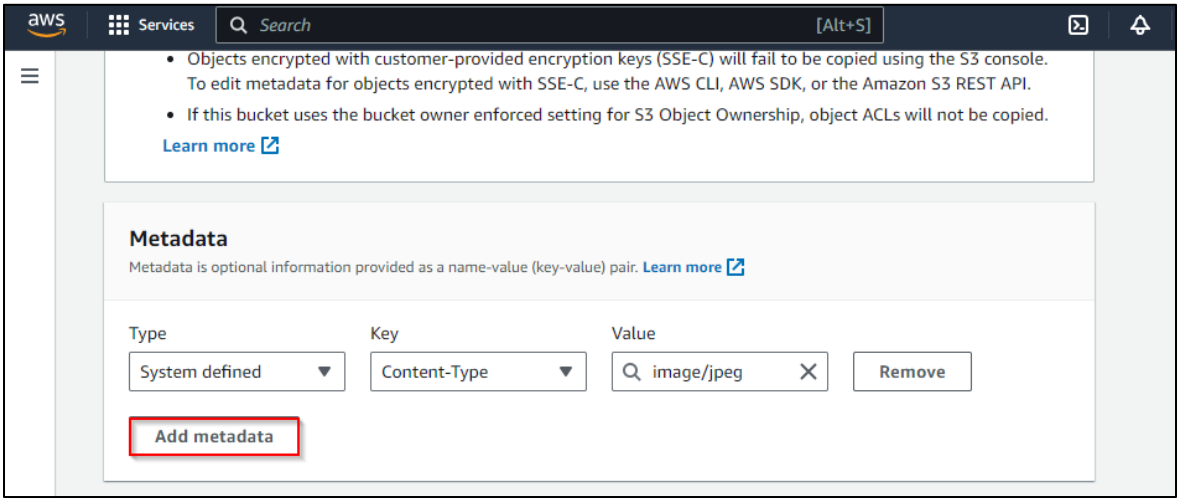
2.4 Upload any .txt file to your S3 bucket by clicking the **Upload** button



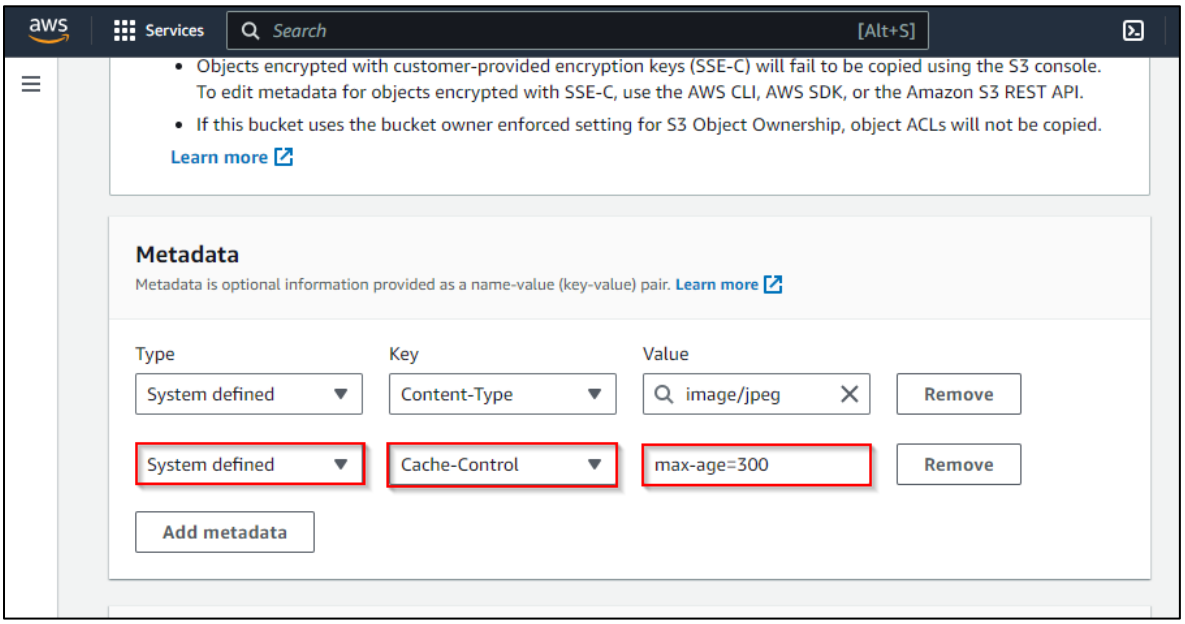
2.5 Under the **properties**, select **Edit** in the Metadata section



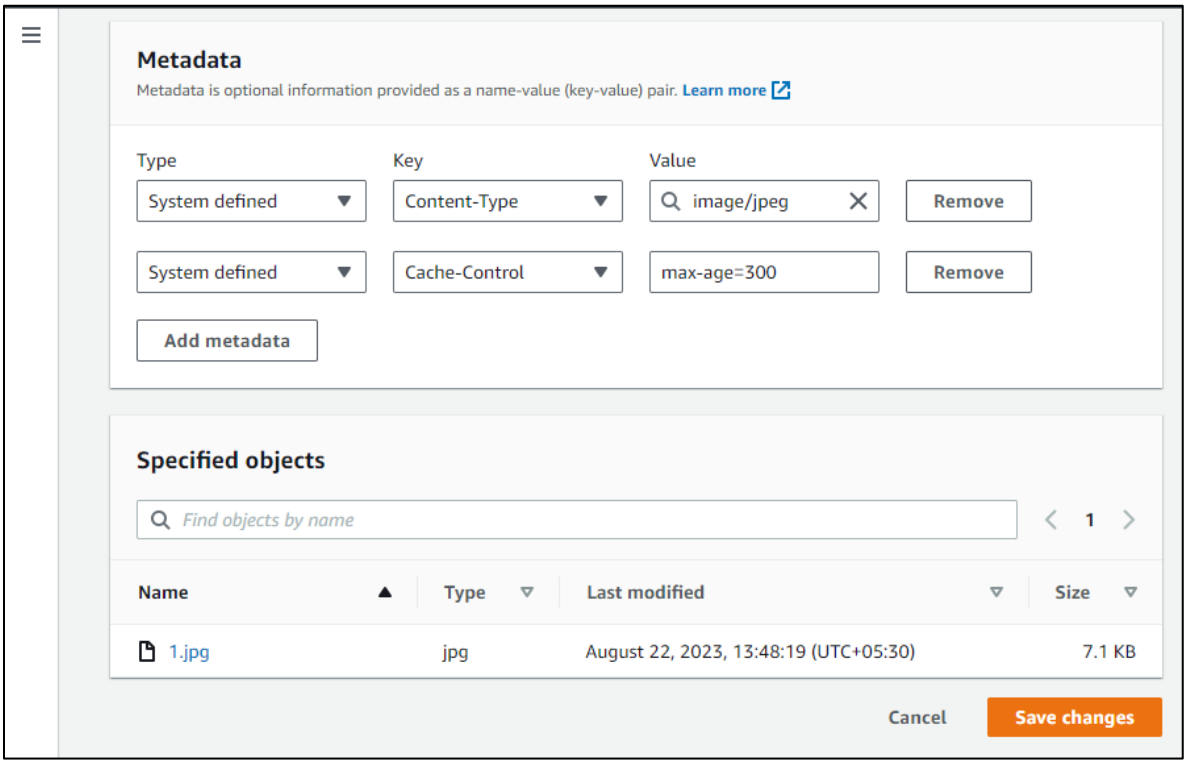
2.6 Click on **Add metadata**



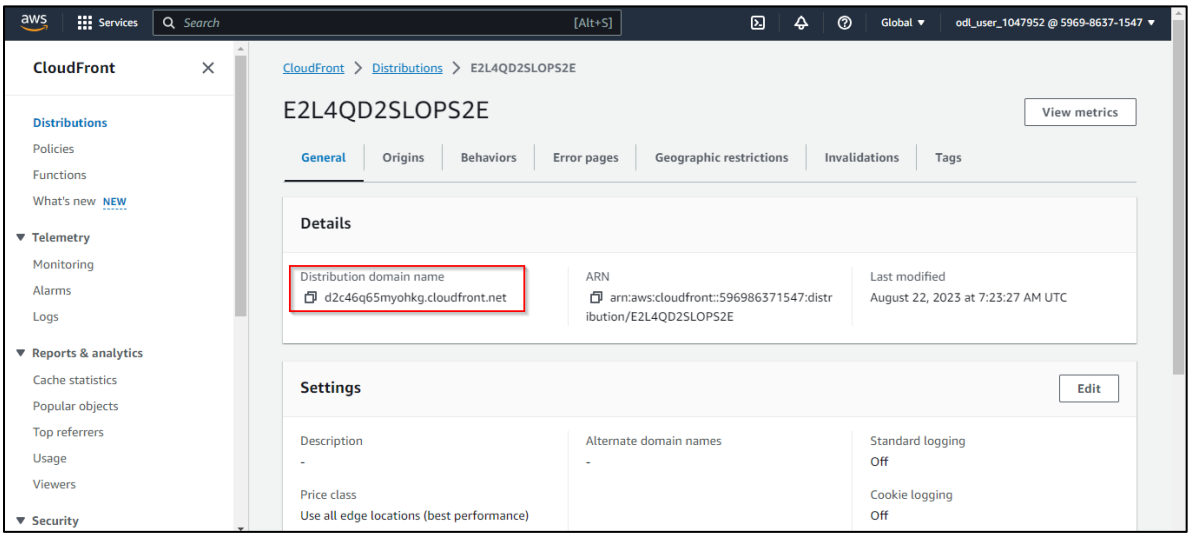
2.7 Choose **Type** as **System defined**, in the **Key** section select **Cache-Control,** and enter the **Value** as **max-age=300**



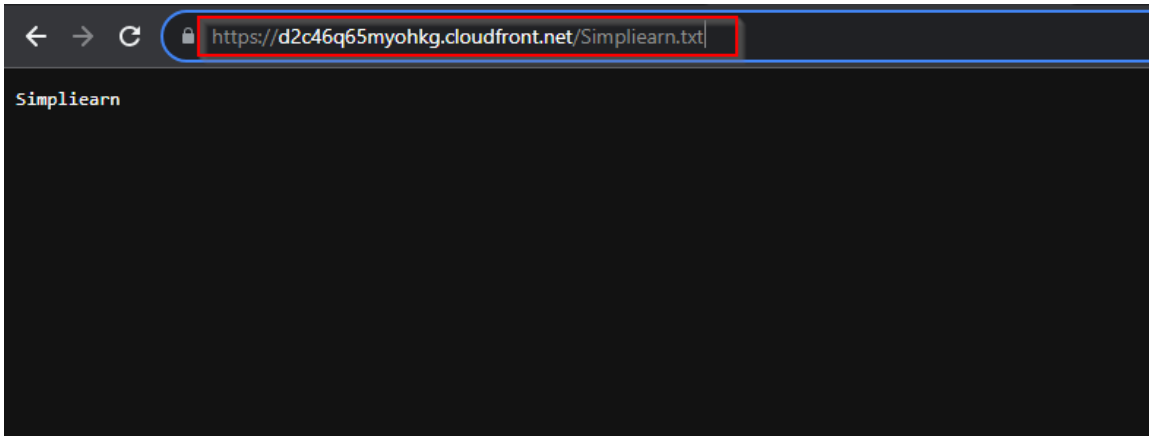
2.8 Click on **Save changes**



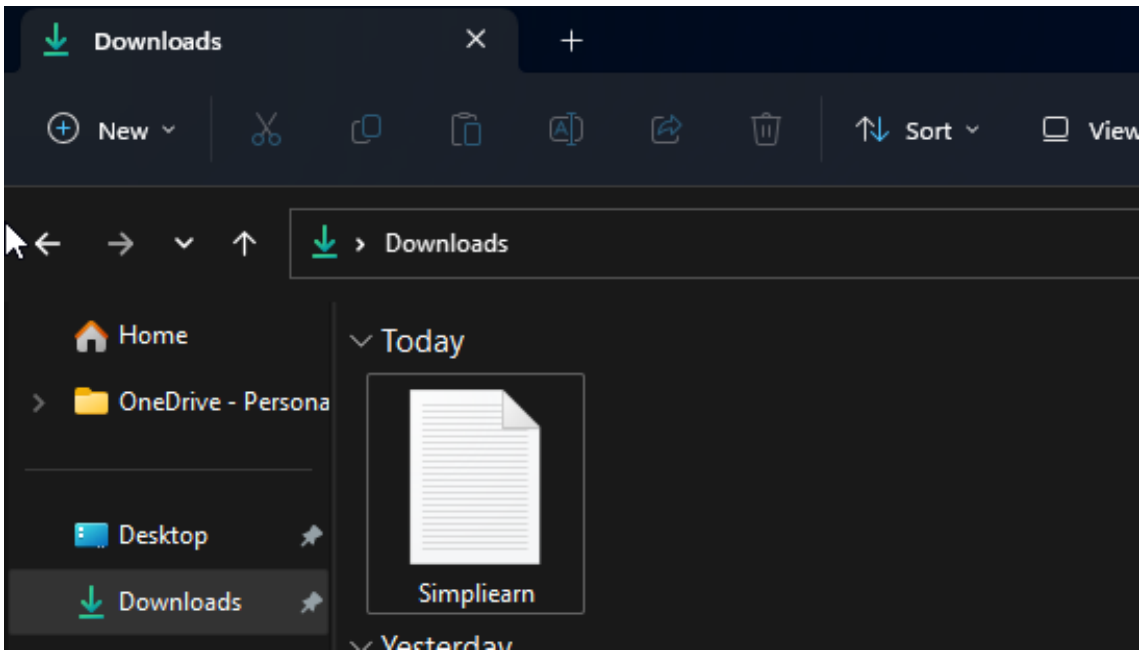
2.9 Navigate back to **CloudFront** distribution and copy the **Distribution domain name**



2.10 Open a browser, paste the distribution domain name, add **/your-text-file-name**, and then press enter

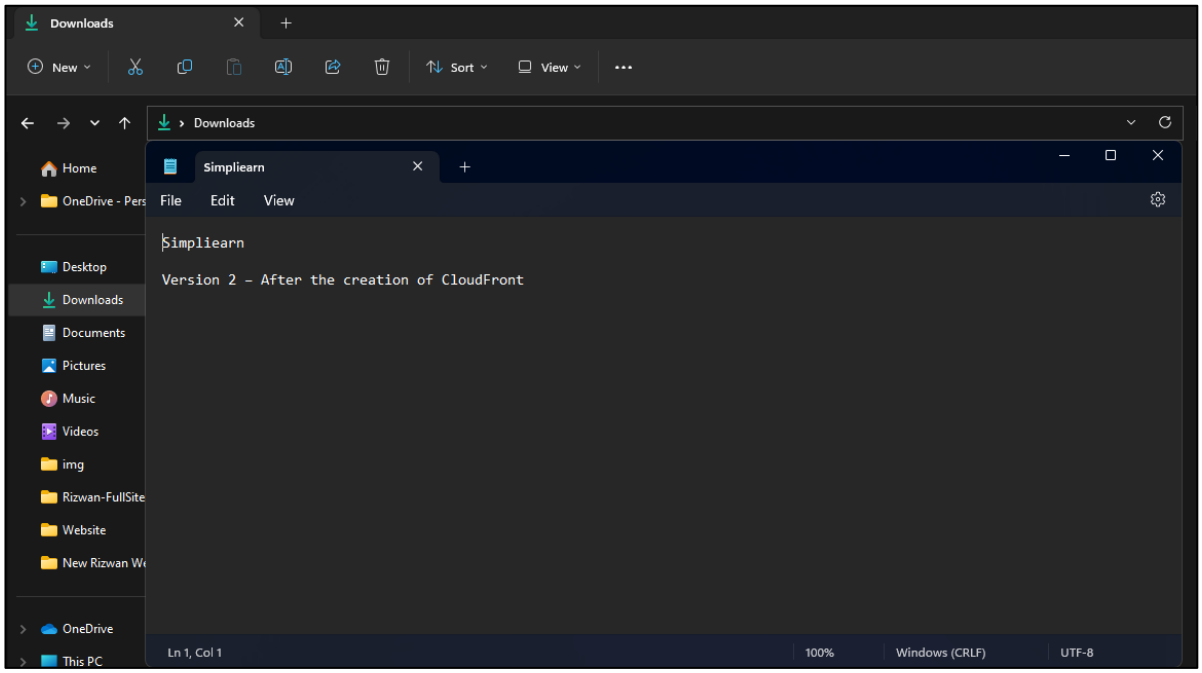


2.11 Open the text file that was created on the local PC

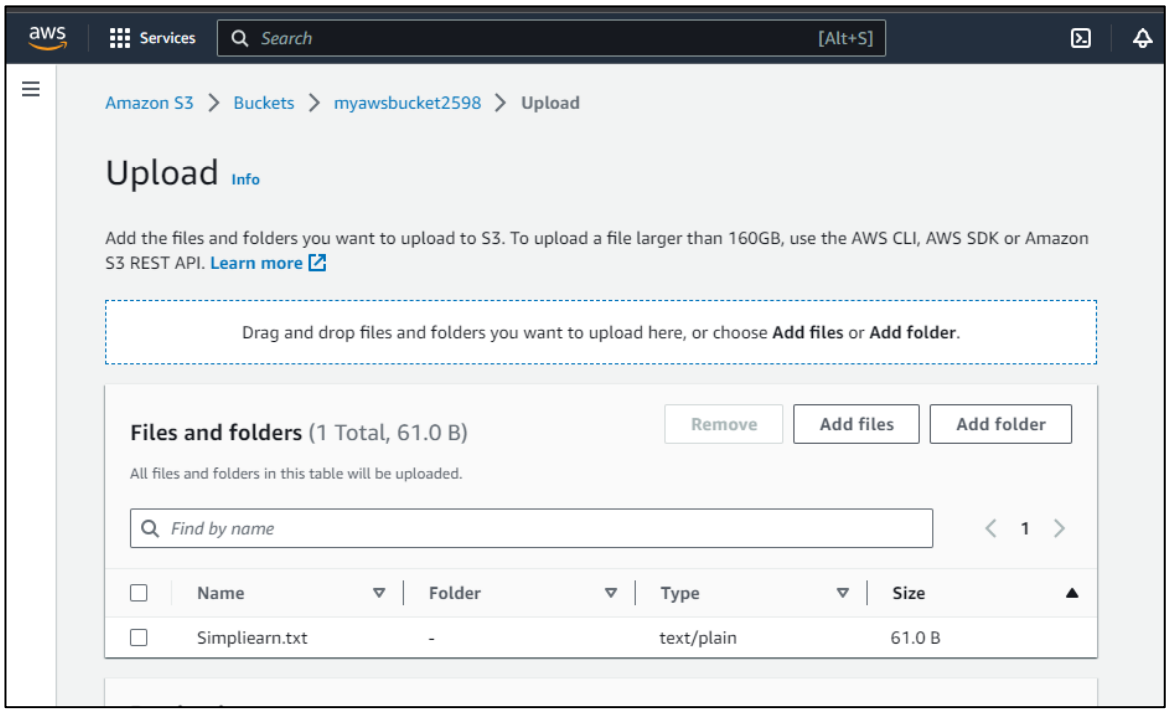


Note: Open the uploaded file in the S3 bucket and edit the file

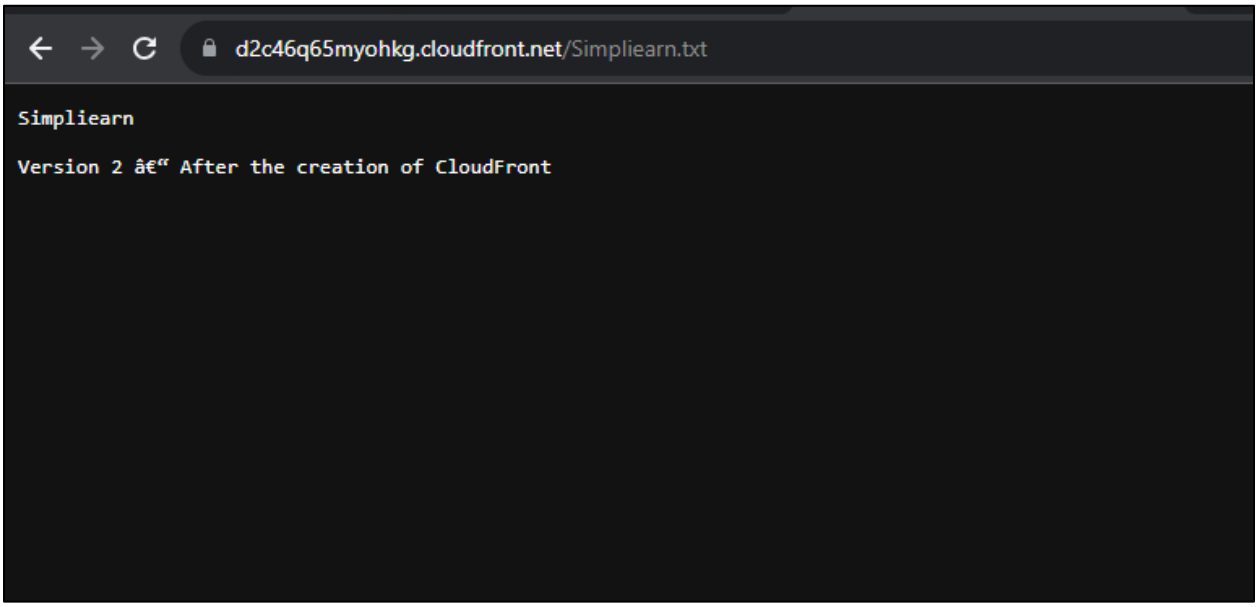
2.12 Enter **Version 2 – After the creation of CloudFront** in the text file and save it



2.13 Upload the text file again to the S3 bucket and delete the old text file



Refresh the page once, you will get the updated output of the text file.



By following these steps, you have successfully configured CloudFront distributions to improve the efficiency of delivering content. Beginning with the establishment of distributions and their connection to existing S3 buckets, you have guaranteed effortless accessibility to your content.