

### Lesson 05 Demo 09

# **Implementing 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

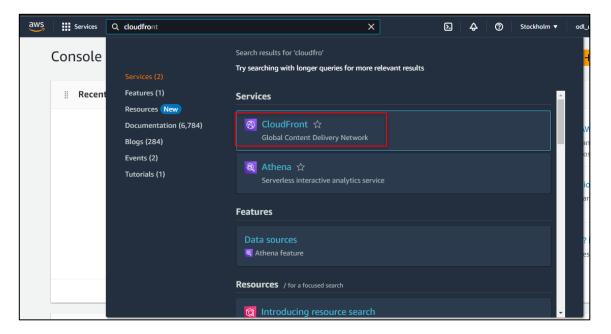
Steps to be followed:

1. Create Distributions

2. Create Invalidation

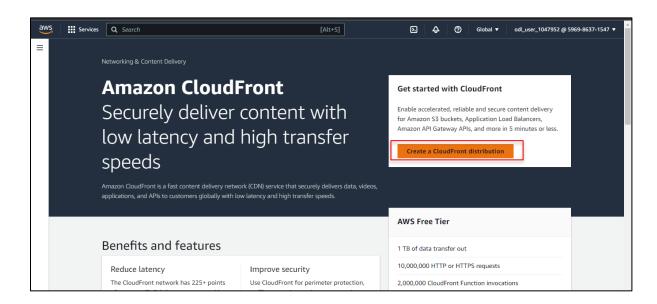
#### **Step 1: Create Distributions**

1.1 Navigate to the AWS Management Console and select CloudFront

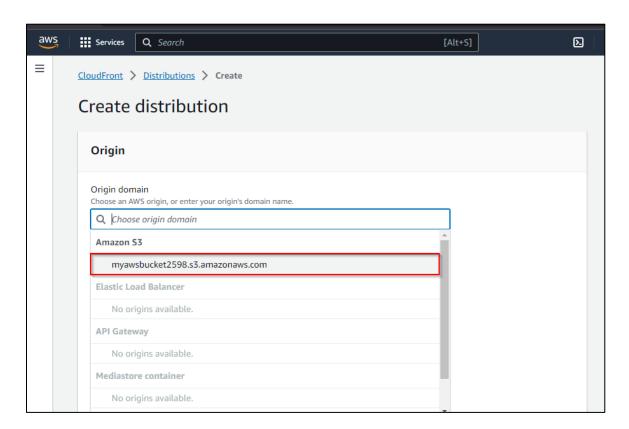




1.2 Click on the Create a CloudFront distribution button



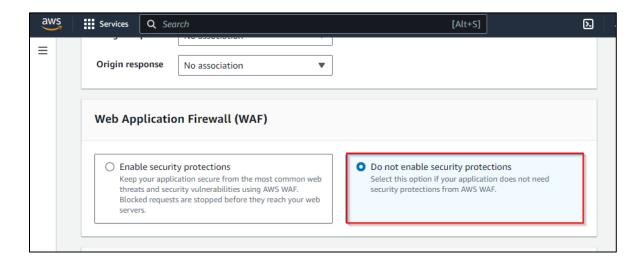
1.3 Choose the S3 bucket you have previously created as the origin domain



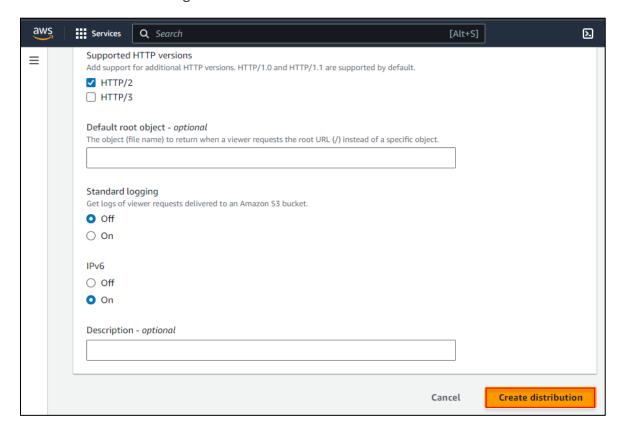
Note: Refer to the previous demos to learn how to create an S3 bucket.



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

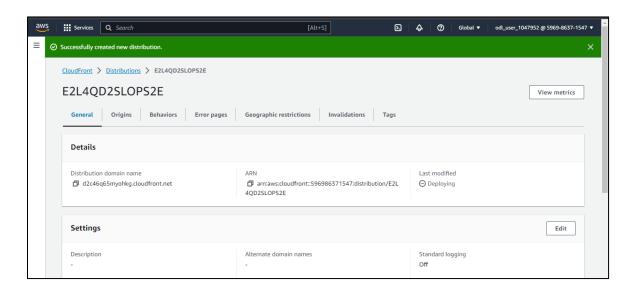


1.5 Choose the default settings and click on Create distribution



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

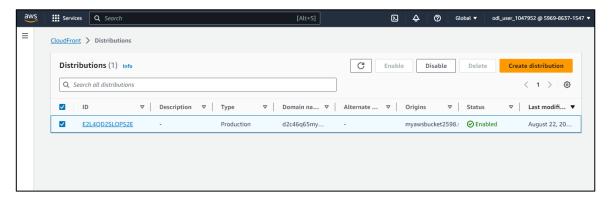




CloudFront distribution has been successfully created.

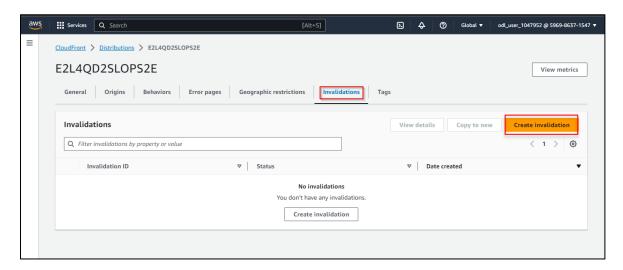
## **Step 2: Create Invalidation**

2.1 Click on the CloudFront distribution you created

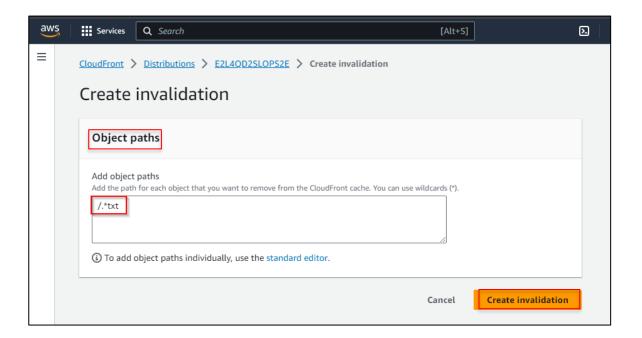




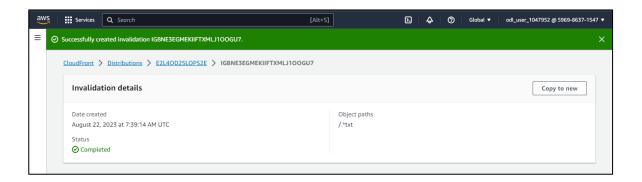
2.2 Navigate to Invalidations and then click on Create invalidation



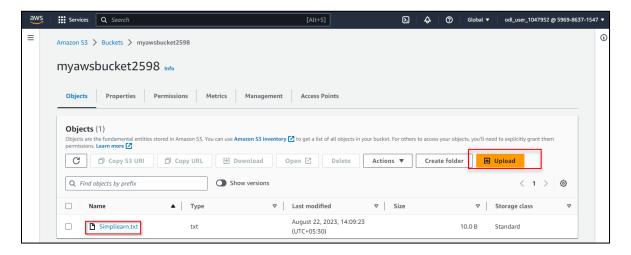
2.3 Enter /.\*txt under Object paths, and click on Create invalidation



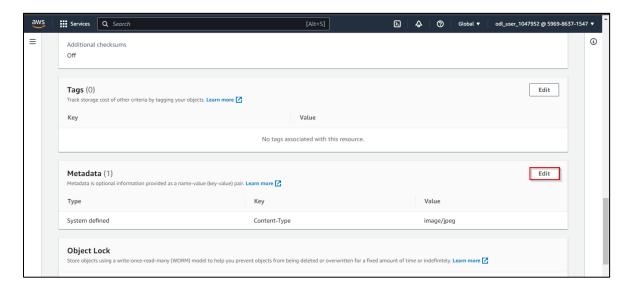




2.4 Upload any .txt file to your S3 bucket by clicking the **Upload** button

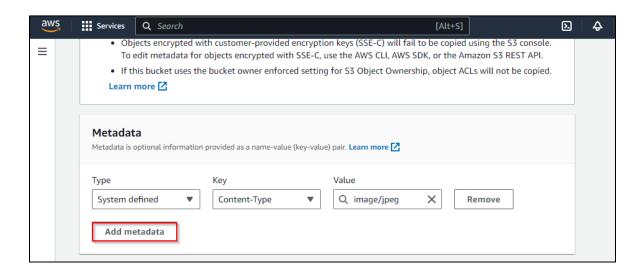


2.5 Under the properties, select **Edit** in the **Metadata** section

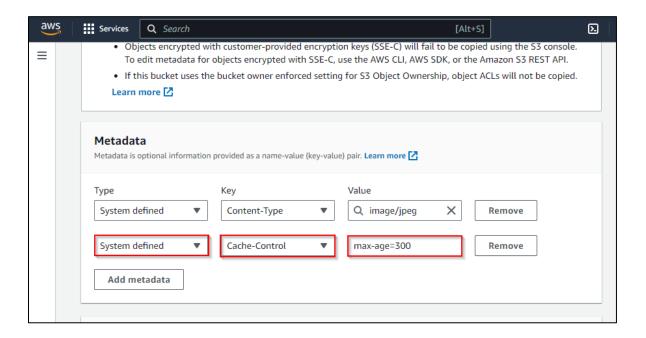




2.6 Click on Add metadata

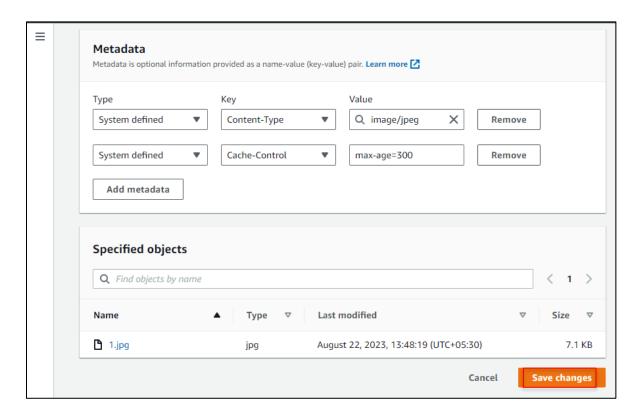


2.7 Choose **Type** as **System defined**, in the **Key** section select **Cache-Control**, and enter the **Value** as **max-age=300** 

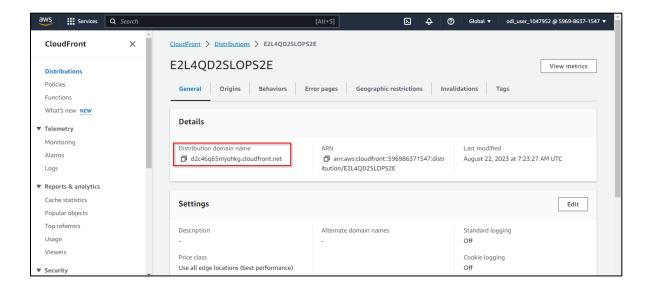




#### 2.8 Click on Save changes

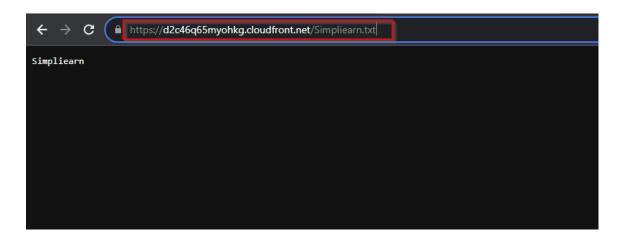


2.9 Navigate back to CloudFront distribution and copy the Distribution domain name

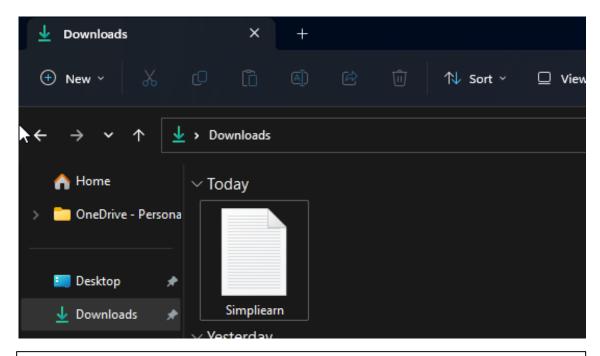




2.10 Open a browser, paste the distribution domain name, add /your-text-file-name, and then press enter



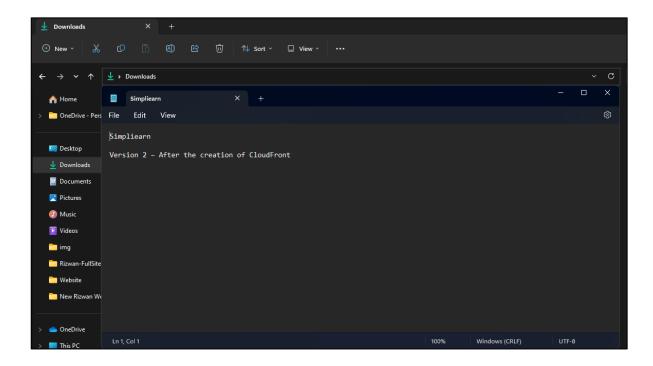
2.11 Open the text file that was created on the local PC



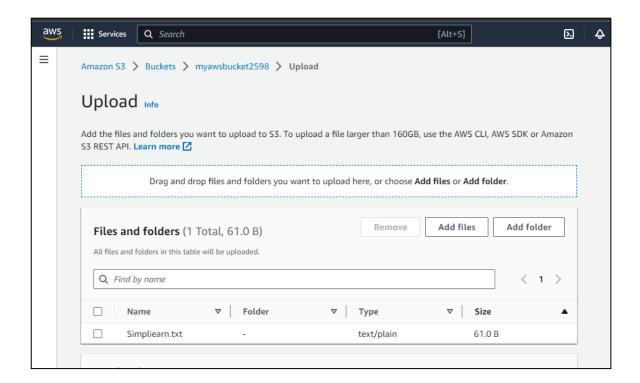
Note: Open the uploaded file in the S3 bucket and edit the file



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

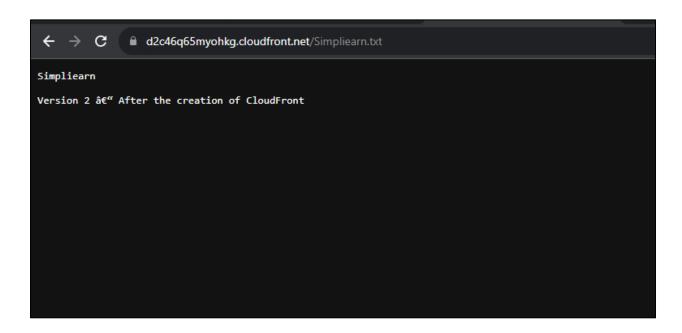


2.13 Upload the text file again to the S3 bucket and delete the old text file





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



By following these steps, you have successfully configured CloudFront distributions. By establishing distributions and connecting them to existing S3 buckets, you have guaranteed accessibility to your content.