

Configure a New CloudFront Distribution with an S3 Bucket

Objective: To configure a new CloudFront distribution with an S3 bucket

Tools required: Linux, AWS account

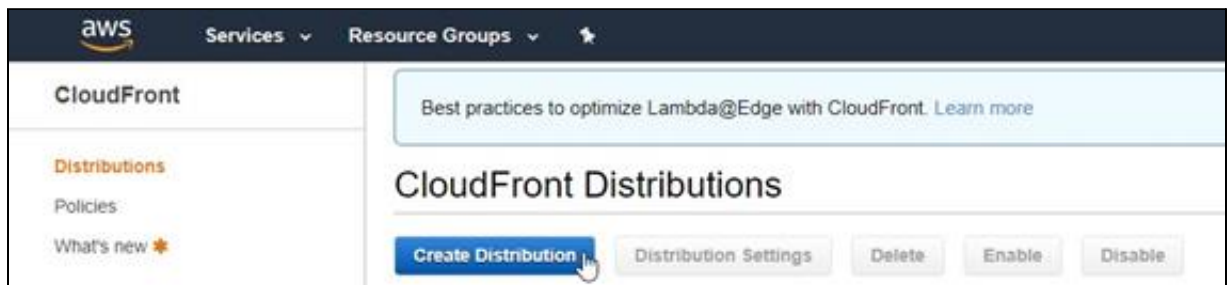
Prerequisites: None

Steps to be followed:

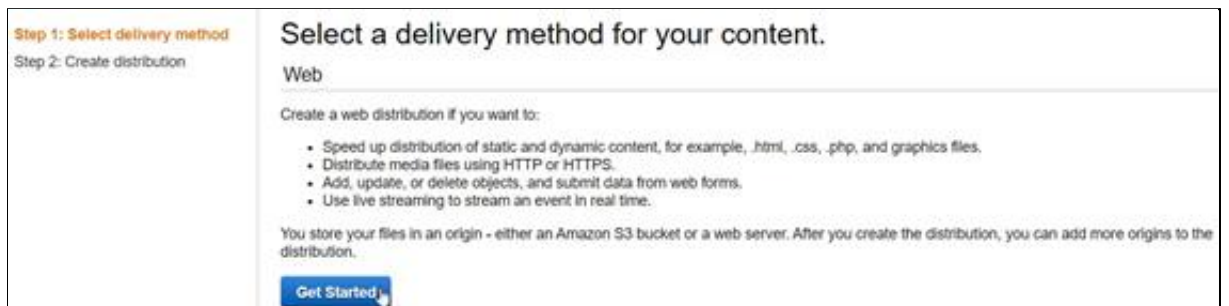
1. Creating a new CloudFront distribution with an S3 bucket

Step 1: Creating a new CloudFront distribution with an S3 bucket

- 1.1 Go to the **AWS Management Console**, and navigate to **CloudFront Management Console**



- 1.2 Click on the **Get Started** button under the **Web** section



1.3 Under the **Origin Settings** section of the **Create Distribution** page, enter **Origin Domain Name**, and then select the options as shown in the following screenshot:

Create Distribution

Origin Settings

Origin Domain Name ⓘ

Origin Path

Origin ID ⓘ

Restrict Bucket Access ☒ Yes ⓘ
☐ No

Origin Access Identity ☒ Create a New Identity ⓘ
☐ Use an Existing Identity

Comment ⓘ

Grant Read Permissions on Bucket ☒ Yes, Update Bucket Policy ⓘ
☐ No, I Will Update Permissions

Origin Connection Attempts ⓘ

Origin Connection Timeout ⓘ

Origin Custom Headers

Header Name	Value
<input type="text"/>	<input type="text"/> ⓘ

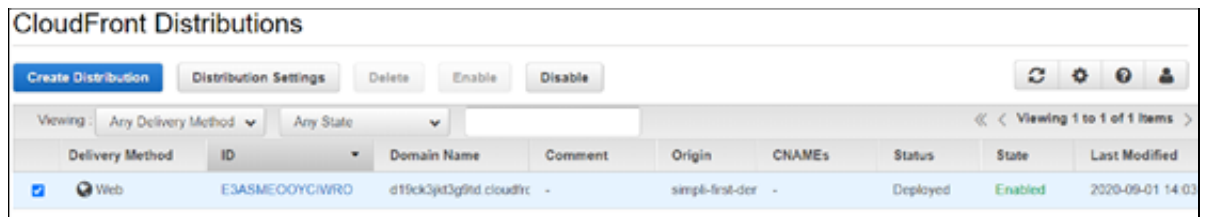
- 1.4 Under the **Default Cache Behavior Settings** section, set the **Viewer Protocol Policy** to **Redirect HTTP to HTTPS**, and keep the other fields set to default

The screenshot shows the 'Default Cache Behavior Settings' interface. The 'Path Pattern' is set to 'Default (*)'. The 'Viewer Protocol Policy' is set to 'Redirect HTTP to HTTPS' (indicated by a blue dot). The 'Allowed HTTP Methods' are set to 'GET, HEAD'. The 'Field-level Encryption Config' is set to a dropdown menu. The 'Cached HTTP Methods' are set to 'GET, HEAD (Cached by default)'. The 'Cache and origin request settings' are set to 'Use a cache policy and origin request policy'. The 'Cache Policy' is set to 'Managed-CachingOptimized'. The 'Origin Request Policy' is set to a dropdown menu. There are buttons for 'Create a new policy', 'View policy details', and 'Learn More' for both the Cache Policy and Origin Request Policy.

- 1.5 Under the **Distribution Settings** section, enter **index.html** in **Default Root Object**, keep the other fields set to default and then click on the **Create Distribution** button

The screenshot shows the 'Distribution Settings' interface. The 'Supported HTTP Versions' are set to 'HTTP/2, HTTP/1.1, HTTP/1.0'. The 'Default Root Object' is set to 'index.html'. The 'Standard Logging' is set to 'Off'. The 'S3 Bucket for Logs' is set to a text input field. The 'Log Prefix' is set to a text input field. The 'Cookie Logging' is set to 'Off'. The 'Enable IPv6' checkbox is checked. The 'Comment' is set to a text input field. The 'Distribution State' is set to 'Enabled'. There are buttons for 'Cancel', 'Back', and 'Create Distribution'.

1.6 Once the distribution is created, it will be displayed on the CloudFront dashboard



The screenshot shows the AWS CloudFront Distributions dashboard. At the top, there are buttons for 'Create Distribution', 'Distribution Settings', 'Delete', 'Enable', and 'Disable'. Below these are filters for 'Viewing: Any Delivery Method' and 'Any State'. A table lists the distributions. The table has columns: Delivery Method, ID, Domain Name, Comment, Origin, CNAMEs, Status, State, and Last Modified. One distribution is listed with ID 'E3ASME00YCIVRO', Domain Name 'd19ck3pt3gld.cloudfront.net', Status 'Deployed', and State 'Enabled'.

Delivery Method	ID	Domain Name	Comment	Origin	CNAMEs	Status	State	Last Modified
Web	E3ASME00YCIVRO	d19ck3pt3gld.cloudfront.net	-	single-first-cdr	-	Deployed	Enabled	2020-09-01 14:03

1.7 Copy the **Domain Name** from the newly created distribution, and paste it in the browser to open the webpage stored in the S3 bucket

