CONTENT DELIVERY NETWORK (CDN)

A content delivery network (CDN) is a system of distributed servers (network) that deliver webpages and other web content to a user based on the geographic locations of the user, the origin of the webpage and a content delivery server.

Amazon CloudFront can be used to deliver your entire website, including dynamic, static, streaming, and interactive content using a global network of Amazon edge locations.

Requests for your website or application are automatically routed to the nearest edge locations instead of your servers, so content is delivered with the best possible performance.

Origin: This is the origin of all files that the CDN will distribute. This can be either an EC2 Instance, S3 Bucket, an ELB or Route53.

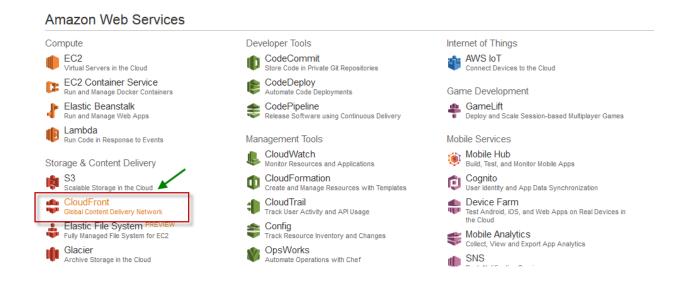
Distribution: This is the name given the CDN which consists of a collection of Edge Locations.

CLOUDFRONT Distribution Types:

- **Web Distribution**: Typically used for Websites.
- RTMP: Used for Media Streaming.

CLOUDFRONT DISTRIBUTION CREATION

Once you logged in to AWS management console, from the console home choose CloudFront under Storage & Content Delivery.



Choose Create Distribution button to create a new one.

Amazon CloudFront Getting Started

Either your search returned no results, or you do not have any distributions. Click the button below to create a content using a worldwide network of edge locations that provide low latency and high data transfer speeds (lea



From the select delivery method page, choose Get Started under Web.

Select a delivery method for your content.

Web

Create a web distribution if you want to:

- . Speed up distribution of static and dynamic content, for example, .html, .css, .php, and graphics files.
- . Distribute media files using HTTP or HTTPS.
- Add, update, or delete objects, and submit data from web forms.
- . Use live streaming to stream an event in real time.

You store your files in an origin — either an Amazon S3 bucket or a web server. After you create the distribution, you can add more origins



RTMP

Create an RTMP distribution to speed up distribution of your streaming media files using Adobe Flash Media Server's RTMP protocol. An F end user to begin playing a media file before the file has finished downloading from a CloudFront edge location. Note the following:

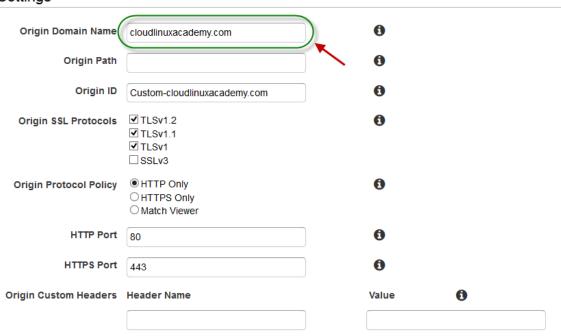
- . To create an RTMP distribution, you must store the media files in an Amazon S3 bucket.
- To use CloudFront live streaming, create a web distribution.

Get Started

Under Origin settings, specify Origin Domain name.

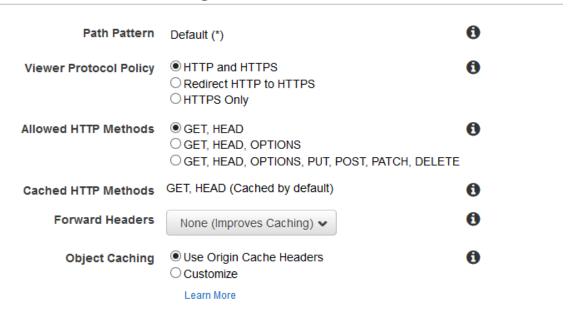
Create Distribution

Origin Settings



Under Default cache behavior settings left all as defaults till Object Caching.

Default Cache Behavior Settings



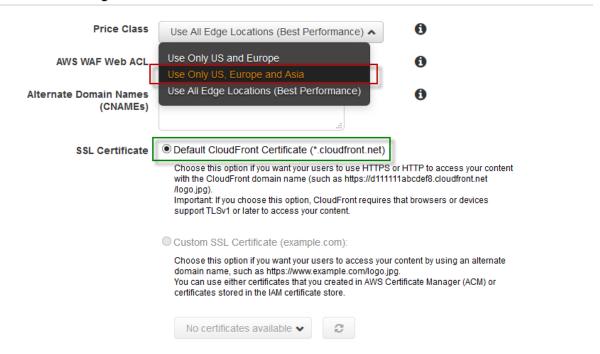
Under Object Caching, if you want to change choose Custom, then specify Minimum, maximum and Default TTL values.

Object Caching	Use Origin Cache Headers Customize	0
	Learn More	
Minimum TTL	0	0
Maximum TTL	31536000	0
Default TTL	86400	•
Forward Cookies	None (Improves Caching) 🕶	0
Forward Query Strings	○ Yes No (Improves Caching)	0
Smooth Streaming	○ Yes No	0
Restrict Viewer Access (Use Signed URLs or Signed Cookies)	○ Yes ● No	•
Compress Objects Automatically	○ Yes ● No	0
	Learn More	

Under Distribution Settings, from Price class drop down list choose one of the option which suits better for your application.

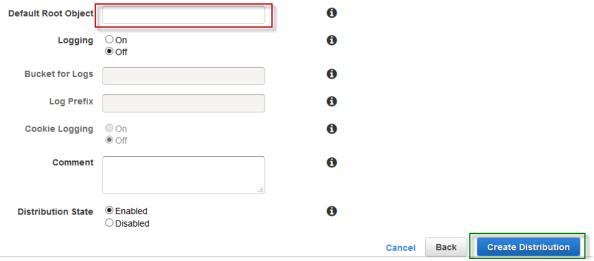
Then under SSL Certificate, go with defaults.

Distribution Settings



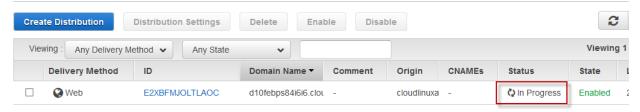
Then specify Default root object or leave blank, specify logging should be on or off.

Then choose Create Distribution button to create.



Distribution will start creating, you can see the status as in progress.

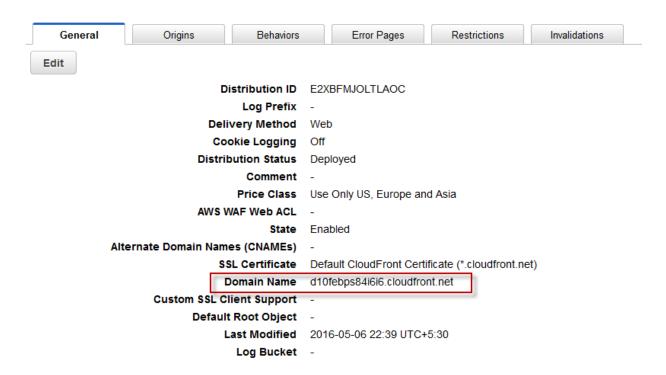
CloudFront Distributions



Once completion, click on ID.



You can see the domain of your cloudfront distribution under general.



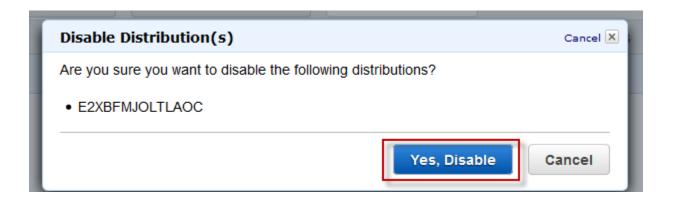
REMOVE CLOUDFRONT DISTRIBUTION

To remove the distribution, select the distribution then choose disable.

CloudFront Distributions



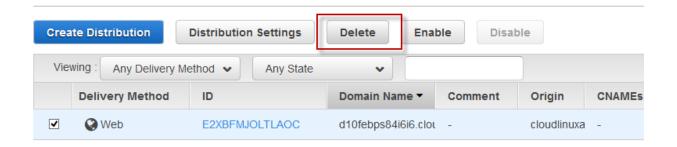
Confirm the disabling distribution.



It will start disabling, once done status will change to Disabled.



Choose distribution, select Delete to delete the distribution.



Confirm deletion, by clicking on Yes, Delete button.

