

Module 11 Guided Lab - Streaming Dynamic Content using Amazon CloudFront

The screenshot shows the AWS S3 console interface. The left sidebar contains navigation links for Buckets, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, Access analyzer for S3, Storage Lens, and AWS Marketplace for S3. The main content area shows the 'Buckets' page with an 'Account snapshot' section and a 'Buckets (1)' section. The bucket list includes:

Name	AWS Region	Access	Creation date
c65590a1271570l3108054t1w1571-awstrainingreinvent-u7groxtdt7	US East (N. Virginia) us-east-1	Public	November 14, 2022, 15:45:25 (UTC+06:30)

The bottom screenshot shows the 'input/' page for the bucket 'c65590a1271570l3108054t1w1571-awstrainingreinvent-u7groxtdt7'. The page displays the 'input/' directory and a list of objects, including 'AmazonS3Sample.mp4'.

Name	Type	Last modified	Size	Storage class
AmazonS3Sample.mp4	mp4	November 14, 2022, 15:46:05 (UTC+06:30)	22.4 MB	Standard

Woo Young-woo and Lee Jun...structure.com/courses/29564/assignments/249237?module_item_id=2466836beginning your dat...AWS Academy Clou...aws educateaws rampupshebuild schedule

AssignmentsGuided Lab - Streaming Dynamic Content using Amazon CloudFront

Module 11 Guided Lab - Streaming Dynamic Content using Amazon CloudFront

Due No Due DatePoints 100Submitting an external tool

SubmitDetailsAWSStart LabEnd Lab2:52Instructions

EN_US

CloudFront Distribution

In this task, you will create an Amazon CloudFront distribution that will be used to deliver the multiple bit-rate files generated by Amazon Elastic Transcoder to end-user devices.

7. On the **Services** menu, choose **CloudFront**.

8. Choose **Create Distribution**.

9. Under the **Web** section of the page, choose **Get Started**.

10. Under **Origin Settings** section of the page, enter the following information:

- Select the **Origin Domain Name** field. A list of S3

Task 3: Create an Amazon Elastic

c65590a1271570i3108054t1w15CloudFront

us-east-1.console.aws.amazon.com/cloudfront/v3/home?r...AWS Academy Clou...aws educate

CloudFront

Networking & Content Delivery

Amazon CloudFront

Securely deliver content with low latency and high transfer speeds

Amazon CloudFront is a fast content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to customers globally with low latency and high transfer speeds.

Get started with CloudFront

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9. Under the **Web** section of the page, choose **Get Started**.

10. Under **Origin Settings** section of the page, enter the following information:

- Select the **Origin Domain Name** field. A list of S3 buckets will appear. Choose the one that was created earlier that has **awstrainingreinvent** as part of the file name.
- Under **Restrict Bucket Access** select **No**.

11. Scroll to the bottom of the page, then choose **Create Distribution**.

c65590a1271570i3108054t1w15CloudFront

us-east-1.console.aws.amazon.com/cloudfront/v3/home?r...AWS Academy Clou...aws educate

Origin

Origin domain

Choose an AWS origin, or enter your origin's domain name.

Choose origin domain

Amazon S3

c65590a1271570i3108054t1w1571-awstrainingreinvent-u7groxntdt7.s3.amazonaws.com

Elastic c65590a1271570i3108054t1w1571-awstrainingreinvent-u7groxntdt7.s3.amazonaws.com

No origins available.

Mediastore container

No origins available.

CloudFront includes this header in all requests that it sends to your origin.

Add header

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CloudFront

us-east-1.console.aws.amazon.com/cloudfront/v3/home?region=us-east-1#/distributions/E3FQ97TIA0YQQH

Services Search [Alt+S]

Global voclabs/user2211147~Nwe_Nwe_Htay_Win @ 1571-8820-8377

Successfully created new distribution.

Do you have 30 seconds to share your experience? [Help us improve CloudFront.](#)

CloudFront > Distributions > E3FQ97TIA0YQQH

E3FQ97TIA0YQQH

General Origins Behaviors Error pages Geographic restrictions Invalidations Tags

Details

Distribution domain name	ARN	Last modified
d28nbey2rok88r.cloudfront.net	arn:aws:cloudfront::157188208377:distribution/E3FQ97TIA0YQQH	Deploying

Settings

Edit

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Type here to search

91°F Sunny 4:02 PM 11/14/2022

Buckets (1) Info

Refresh Copy ARN Empty

Buckets are containers for data stored in S3. [Learn more](#)

Find buckets by name

Name	AWS Region	Access
c65590a1271570l3108054t1w1571-awstrainingreinvent-u7groxntdt7	US East (N. Virginia) us-east-1	Public

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Submit Details AWS Start Lab End Lab 2:41 Instructions

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14. On the Pipelines page, choose **Create a new Pipeline**.

15. For **Pipeline Name**, enter **InputPipeline**.

16. For **Input Bucket**, select the **awstrainingreinvent** S3 bucket.

17. For **IAM Role**, under **Other roles**, select **AmazonElasticTranscoderRole**. This is a role that was pre-created in this lab's CloudFormation template that uses the managed policy AmazonElasticTranscoderRole. The Elastic Transcoder service will assume this role to access Amazon S3 and Amazon Simple Notification Service (Amazon SNS) resources in your lab account.

18. In the **Configuration for Amazon S3 Bucket for**

Try the New File-Based Video Processing Option

AWS Elemental MediaConvert is a new file-based video transcoding service that provides a comprehensive suite of advanced transcoding features, with Basic tier rates starting at \$0.0075/minute. [Read more or try MediaConvert](#)

Pipeline Name

Input Bucket

IAM Role

This role must have the permissions necessary to access the applicable S3 buckets and SNS topics. [View the policy for the default IAM role.](#)

Configuration for Amazon S3 Bucket for Transcoded Files and Playlists

Bucket

Storage Class

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Submit Details AWS Start Lab End Lab 2:39 Instructions

EN_US

18. In the **Configuration for Amazon S3 Bucket for Transcoded Files and Playlists** section, enter the following information:

- Under **Bucket**, select the **awstrainingreinvent** S3 bucket.
- Under **Storage Class**, select **Standard**.

19. In the **Configuration for Amazon S3 Bucket for Thumbnails** section, enter the following information:

- Under **Bucket**, select the **awstrainingreinvent** S3 bucket.
- Under **Storage Class**, select **ReducedRedundancy**.

20. Choose **Create Pipeline**.

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Configuration for Amazon S3 Bucket for Transcoded Files and Playlists

Bucket

Storage Class

+ Add Permission

Configuration for Amazon S3 Bucket for Thumbnails

Bucket

Storage Class

S3 Management Console x CloudFront x AWS Management Console x

us-east-1.console.aws.amazon.com/elastictranscoder/home?region=us-east-1#pipeline-details:1668418611241-cadk2q

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Pipelines

Jobs

Presets

Create New Job Edit Pause Activate Remove

Summary

ARN

arn:aws:elastictranscoder:us-east-1:157188208377:pipeline:1668418611241-cadk2q

Name

InputPipeline

Pipeline ID

1668418611241-cadk2q

Status

Active

Input Bucket

c65590a12715701310805411w1571-awstrainingreinvert-u7groxntdt7

Configuration for Amazon S3 Bucket for Transcoded Files and Playlists

Configuration for Amazon S3 Bucket for Thumbnails

Job Details

Permissions

Notifications

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24. For **Input Key**, select the input file labeled **input/AmazonS3Sample.mp4**.

Configure Output Details

The settings in this section will determine how many output files (bit-rates) are created. You will configure three output files for this demo having three separate bit-rates (2Mbps, 1.5Mbps and 1Mbps). Each output bit-rate will require you to create a separate output details section. This will also output a playlist file for each bit-rate, which lists all the segments that make up the stream.

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Create a New Transcoding Job

A job contains all of the information that Elastic Transcoder needs to transcode one media file into another format. When you create a job, it's automatically added to the pipeline that you specify.

Pipeline

InputPipeline

Output Key Prefix

output/

Input Details (1 of 1)

Input Key

input/AmazonS3Sample.mp4

Decryption Parameters

☒ None ☐ Enter Information

Available Settings

☐ Clip ☐ Input Captions

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25. For **Preset**, select **System preset: HLS 2M**

26. For **Segment Duration**, enter **10** (which is the HLS default).

27. For **Output Key**, enter the unique prefix **HLS20M** to name the segments created using this preset.

28. Click + **Add Another Output** and repeat the steps above to generate segments for presets **HLS 1.5M** and **HLS 1M** and then provide the respective prefix names:

HLS15M

HLS10M

Caution: Do not create the job yet! Instead, complete the

S3 Management CloudFront AWS Management

us-east-1.console.aws.amazon.com/elastictranscoder/home?region=us-east-1#create-job:

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Output Details (1 of 2)

- Remove Output

Preset System preset: HLS 2M

Segment Duration 10

Output Key HLS20M

Segment Filename Preview HLS20M00000.ts

Create Thumbnails ☒ No ☐ Yes

Output Rotation (Clockwise) auto

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S3 Management Console CloudFront AWS Management Console

us-east-1.console.aws.amazon.com/elastictranscoder/home?region=us-east-1#create-job:

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Output Details (2 of 2)

- Remove Output

Preset System preset: HLS 1.5M

Segment Duration 10

Output Key HLS15M

Segment Filename Preview HLS15M00000.ts

Create Thumbnails ☒ No ☐ Yes

Output Rotation (Clockwise) auto

Encryption Parameters To protect your HLS Outputs, add an HLSv3 or HLSv4 playlist along with Content Protection information.

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S3 Management Console x CloudFront x AWS Management Console x +

us-east-1.console.aws.amazon.com/elastictranscoder/home?region=us-east-1#create-job:

oracle class JLP_Kywat Beginning your dat... AWS Academy Clou... aws educate aws rampup shebuild schedule VGW SharePoint Teamup AWS Solutions Arch...

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Preset: System preset: HLS 1M ⓘ

Segment Duration: 10 ⓘ

Output Key: HLS10M ⓘ

Segment Filename Preview: HLS10M00000.ts ⓘ

Create Thumbnails: ☒ No ⓘ
☐ Yes

Output Rotation (Clockwise): auto ⓘ

Encryption Parameters: To protect your HLS Outputs, add an HLSv3 or HLSv4 playlist along with Content Protection information.

Available Settings: ☐ Output Captions ⓘ

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configure a playlist, do the following:

29. Under **Playlists (Adaptive Streaming)**, choose **Add Playlist**, then configure:

- **Playlist Name**: primary
- **Playlist Format**: HLSv3

30. Select all the three outputs, which were entered in the previous section, to include them in this playlist by selecting the + option.

31. Choose **Create New Job**.

The transcoding process should complete within a minute.

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Playlist (1 of 1) - Remove Playlist

Master Playlist Name: primary ⓘ

Playlist Format: HLSv3 ⓘ

Outputs in Master Playlist: HLS20M ⓘ

Outputs in Master Playlist: HLS15M ⓘ

Outputs in Master Playlist: HLS10M ⓘ

Content Protection: ☒ None ☐ HLS AES ☐ PlayReady DRM ⓘ

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Try the New File-Based Video Processing Option

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Pipelines

Jobs

Presets

Back Copy Cancel

Summary

ARN	arn:aws:elastictranscoder:us-east-1:157188208377:job/1668418868154-iqidnn	Number Of Inputs	1
Job ID	1668418868154-iqidnn	Number Of Outputs	3
Pipeline	InputPipeline	Number Of Playlists	1
Pipeline ID	1668418611241-cadk2q	Job Status	Progressing
Output Key Prefix	output/		

Inputs

Input Key	input/AmazonS3Sample.mp4	Frame Rate	
Resolution		Duration	
File Size		Clip Start Time	

CloudFront > Distributions

Distributions (1) Info

Refresh Enable Disable Delete Create distribution

Search all distributions

ID	Description	Domain name	Alternate dom...	Origins	Status	Last modified
E3FQ97TIA0YQQH	-	d28nbey2rok88r...	-	c65590a127157013108	Enabled	November 14, 20...

32. In the AWS Management Console, on the **Services** menu, choose **CloudFront**.

33. Select the **Amazon CloudFront** distribution that was previously created, and verify that the **Distribution Status** has changed from *InProgress* to *Deployed*.

34. Proceed to the next step only after the **Status** changes to *Deployed*.

35. Select the Distribution by selecting the square box to the left of the Distribution.

36. Choose **Distribution Settings**.

37. Copy the **Domain Name** and paste it into a text editor.

CloudFront > Distributions > E3FQ97TIA0YQQH

E3FQ97TIA0YQQH

General

Origins

Behaviors

Error pages

Geographic restri

Details

Distribution domain name

ARN

am:aws:cloudfront::157188208377:distribution/E3FQ97TIA0YQQH

Last modified

November 14, 2022 at 9:32:12 AM UTC

Settings

Edit

Amazon S3

Buckets

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

Amazon S3 > Buckets > c65590a1271570l3108054t1w1571-awstrainingreinvent-u7groxntdt7

c65590a1271570l3108054t1w1571-awstrainingreinvent-u7groxntdt7

Publicly accessible

Objects

Properties

Permissions

Metrics

Management

Access Points

Objects (2)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Find objects by prefix

< 1 >

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	input/	Folder	-	-	-
<input type="checkbox"/>	output/	Folder	-	-	-

Amazon S3 Buckets > c65590a127157013108054t1w1571-awstrainingreinvent-u7groxntdt7?region=us-east-1&prefix=output/&showw...

output/

Objects (127)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

Find objects by prefix

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	HLS10M.m3u8	m3u8	November 14, 2022, 16:11:25 (UTC+06:30)	1.5 KB	Standard
<input type="checkbox"/>	HLS10M00000.ts	ts	November 14, 2022, 16:11:25 (UTC+06:30)	536.5 KB	Standard
<input type="checkbox"/>	HLS10M00001.ts	ts	November 14, 2022, 16:11:25 (UTC+06:30)	486.5 KB	Standard
<input type="checkbox"/>	HLS10M00002.ts	ts	November 14, 2022, 16:11:25 (UTC+06:30)	246.2 KB	Standard
<input type="checkbox"/>	HLS10M00003.ts	ts	November 14, 2022, 16:11:25 (UTC+06:30)	440.3 KB	Standard
<input type="checkbox"/>	HLS10M00004.ts	ts	November 14, 2022, 16:11:25 (UTC+06:30)	428.0 KB	Standard

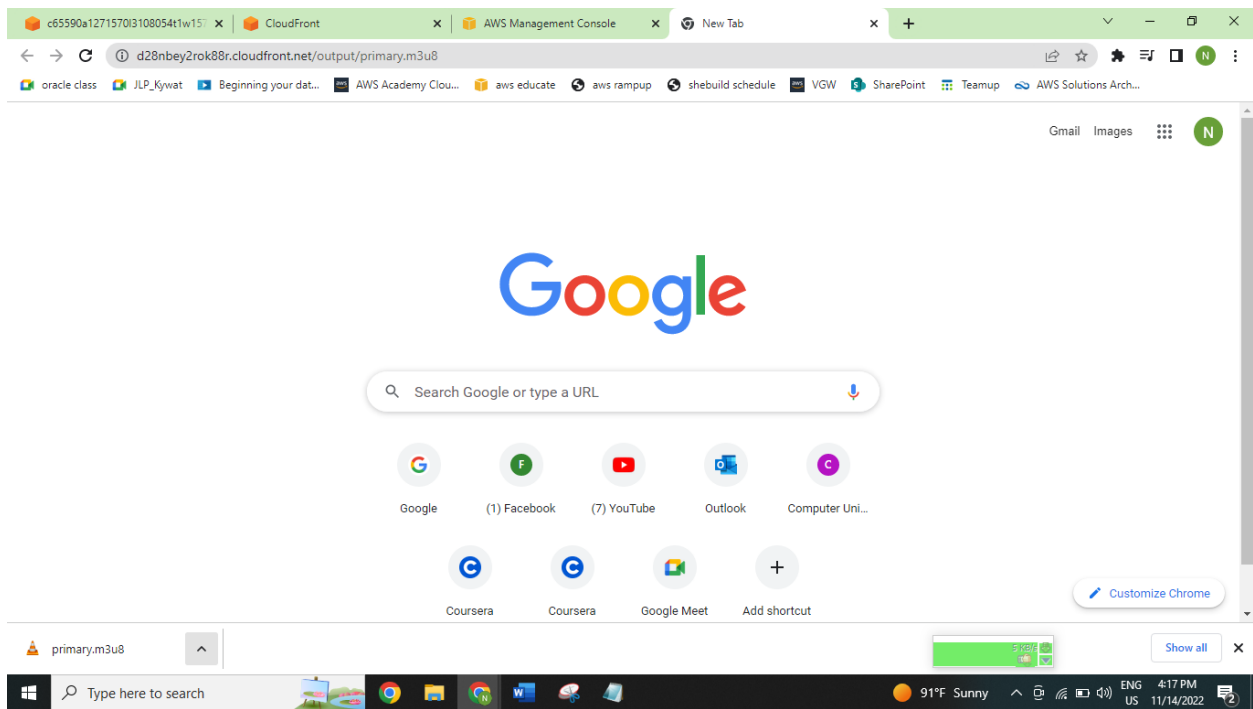
Successfully renamed object
"HLS10M.m3u8" was renamed to "primary.m3u8".

Find objects by prefix

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	HLS20M00020.ts	ts	November 14, 2022, 16:11:31 (UTC+06:30)	1.5 KB	Standard
<input type="checkbox"/>	HLS20M00029.ts	ts	November 14, 2022, 16:11:31 (UTC+06:30)	475.7 KB	Standard
<input type="checkbox"/>	HLS20M00030.ts	ts	November 14, 2022, 16:11:31 (UTC+06:30)	604.2 KB	Standard
<input type="checkbox"/>	HLS20M00031.ts	ts	November 14, 2022, 16:11:31 (UTC+06:30)	783.0 KB	Standard
<input type="checkbox"/>	HLS20M00032.ts	ts	November 14, 2022, 16:11:31 (UTC+06:30)	420.1 KB	Standard
<input type="checkbox"/>	HLS20M00033.ts	ts	November 14, 2022, 16:11:31 (UTC+06:30)	810.9 KB	Standard
<input type="checkbox"/>	HLS20M00034.ts	ts	November 14, 2022, 16:11:31 (UTC+06:30)	852.6 KB	Standard
<input type="checkbox"/>	HLS20M00035.ts	ts	November 14, 2022, 16:11:31 (UTC+06:30)	409.8 KB	Standard
<input type="checkbox"/>	HLS20M00036.ts	ts	November 14, 2022, 16:11:31 (UTC+06:30)	902.2 KB	Standard
<input type="checkbox"/>	HLS20M00037.ts	ts	November 14, 2022, 16:11:31 (UTC+06:30)	862.0 KB	Standard
<input type="checkbox"/>	HLS20M00038.ts	ts	November 14, 2022, 16:11:31 (UTC+06:30)	334.3 KB	Standard
<input type="checkbox"/>	HLS20M00039.ts	ts	November 14, 2022, 16:11:31 (UTC+06:30)	763.6 KB	Standard
<input type="checkbox"/>	HLS20M00040.ts	ts	November 14, 2022, 16:11:31 (UTC+06:30)	590.6 KB	Standard
<input checked="" type="checkbox"/>	primary.m3u8	m3u8	November 14, 2022, 16:16:33 (UTC+06:30)	1.5 KB	Standard

<https://d28nbey2rok88r.cloudfront.net/output/primary.m3u8>

Run this link in browser



And run this link in mobile