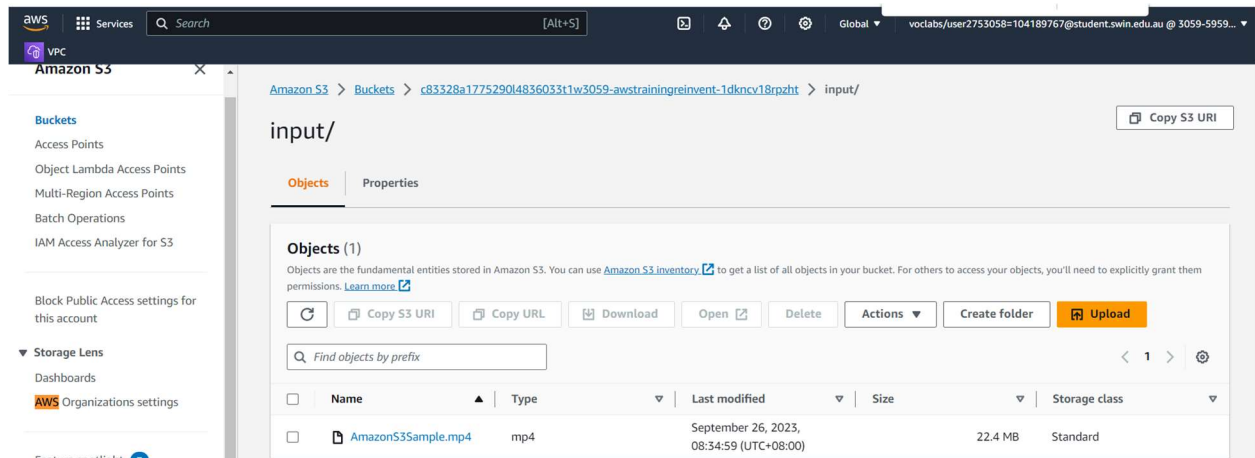


# Module 11 - Guided Lab: Streaming Dynamic Content using Amazon CloudFront

Name: Pham Do Tien Phong

Student ID: 104189767

## Task 1: Lab Preparation



First of all, I open the manage console , choose S3, then click on the link containing the line “awstrainingreinvent” and I see input folder having “AmazonS3Sample.mp4”.

## Task 2: Create an Amazon CloudFront Distribution

**Create distribution**

**Origin**

Origin domain  
Choose an AWS origin, or enter your origin's domain name.  
c83328a177529048360331w3059-awstrainingreinvert-1dmcv18pght.s3.us X

Origin path - optional [Info](#)  
Enter a URL path to append to the origin domain name for origin requests.  
Enter the origin path

Name  
Enter a name for this origin.  
c83328a177529048360331w3059-awstrainingreinvert-1dmcv18pght.s3.us-east-1

Origin access [Info](#)  
☒ Public  
Bucket must allow public access.  
☐ Origin access control settings (recommended)  
Bucket can restrict access to only CloudFront.  
☐ Legacy access identities  
Use a CloudFront origin access identity (OAI) to access the S3 bucket.

Add custom header - optional  
CloudFront includes this header in all requests that it sends to your origin.  
Add header

Enable Origin Shield [Info](#)  
Origin Shield is an additional caching layer that can help reduce the load on your origin and help protect its availability.  
☒ No  
☐ Yes

► Additional settings

Origin request: No association

Origin response: No association

**Web Application Firewall (WAF)**

☐ Enable security protections  
Keep your application secure from the most common web threats and security vulnerabilities using AWS WAF. Blocked requests are stopped before they reach your web servers.

☒ Do not enable security protections  
Select this option if your application does not need security protections from AWS WAF.

I create cloudfront distribution with the setting as instructions: choosing origin domain, keeping origin access, selecting firewall as Do not enable security protections.

## Task 3: Create an Amazon Elastic Transcoder Pipeline

**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](#)

**Create New Pipeline**

A pipeline is a queue for your transcoding jobs. You can have more than one pipeline per AWS account. You can use multiple pipelines to organize your transcoding workflow, for example, by having one pipeline for standard-priority jobs and one for high-priority jobs.

Pipeline Name: InputPipeline

Input Bucket: c83328a177529048360331w3059-

IAM Role: AmazonElasticTranscoderRole  
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: c83328a177529048360331w3059-

Storage Class: Standard

[+ Add Permission](#)

**Configuration for Amazon S3 Bucket for Thumbnails**

Bucket: c83328a177529048360331w3059-

Storage Class: Reduced Redundancy

I create a new pipeline that will manage the jobs to transcode the input file.

Services

Search

[Alt+S]

VPC

N. Virginia

voclabs/user2753058=104189767@student.swin.edu.au @ 3059-5959...

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](#)

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

+ Add Another Input

Output Details (1 of 3)

Remove Output

Preset

System preset: HLS 2M

Segment Duration

10

Output Key

HLS20M

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](#)

Output Details (2 of 3)

Remove Output

Preset

System preset: HLS 1.5M

Segment Duration

10

Output Key

HLS15M

Segment Filename Preview

HLS15M000000.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

Watermarks

Preset Watermark Id

Select One...

Output Details (3 of 3)

Remove Output

Preset

System preset: HLS 1M

Segment Duration

10

Output Key

HLS10M

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](#)

Preset Watermark Id: Select One...

+ Add Another Output

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

These photos above is the step I create a new job for the new pipeline created before.

## Task 4: Test Playback of the Dynamic (Multi Bit-Rate) Stream

CloudFront E242FOXZFCAA33

E242FOXZFCAA33

General | Origins | Behaviors | Error pages | Geographic restrictions

Details

Distribution domain name: d3frmkw77sqcqx.cloudfront.net

ARN: arn:aws:cloudfront:::distribution/E242FOXZFCAA33

Settings

Description: -

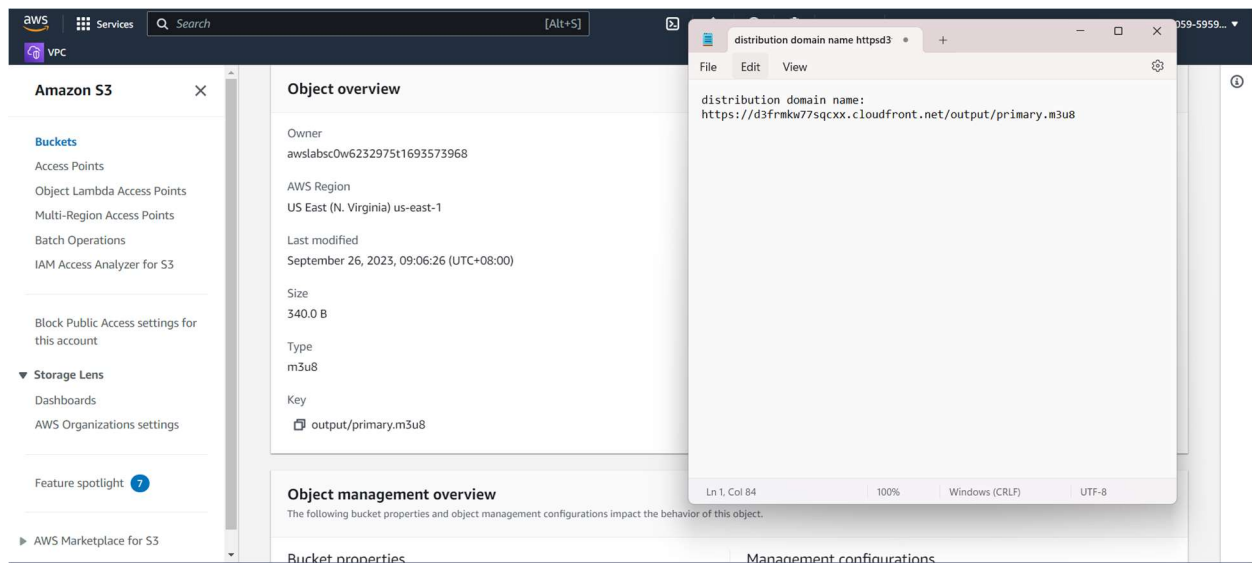
Price class: Use all edge locations (best performance)

Supported HTTP versions: HTTP/2, HTTP/1.1, HTTP/1.0

AWS WAF: -

distribution domain name: https://d3frmkw77sqcqx.cloudfront.net

I obtain cloud front in a text editor



I obtain the playlist file path and construct /output/primary.m3u8



and finally, I successfully start the video on my mobile phone.