

AWS MediaServices と OBS(Open Broadcaster Software) で動画配信をはじめよう

本セッションの目的

- AWS Media Servicesの操作を手早く体験いただけます
- ライブ/VOD配信をしていただけます
- 今はやりのOBSについても学びます

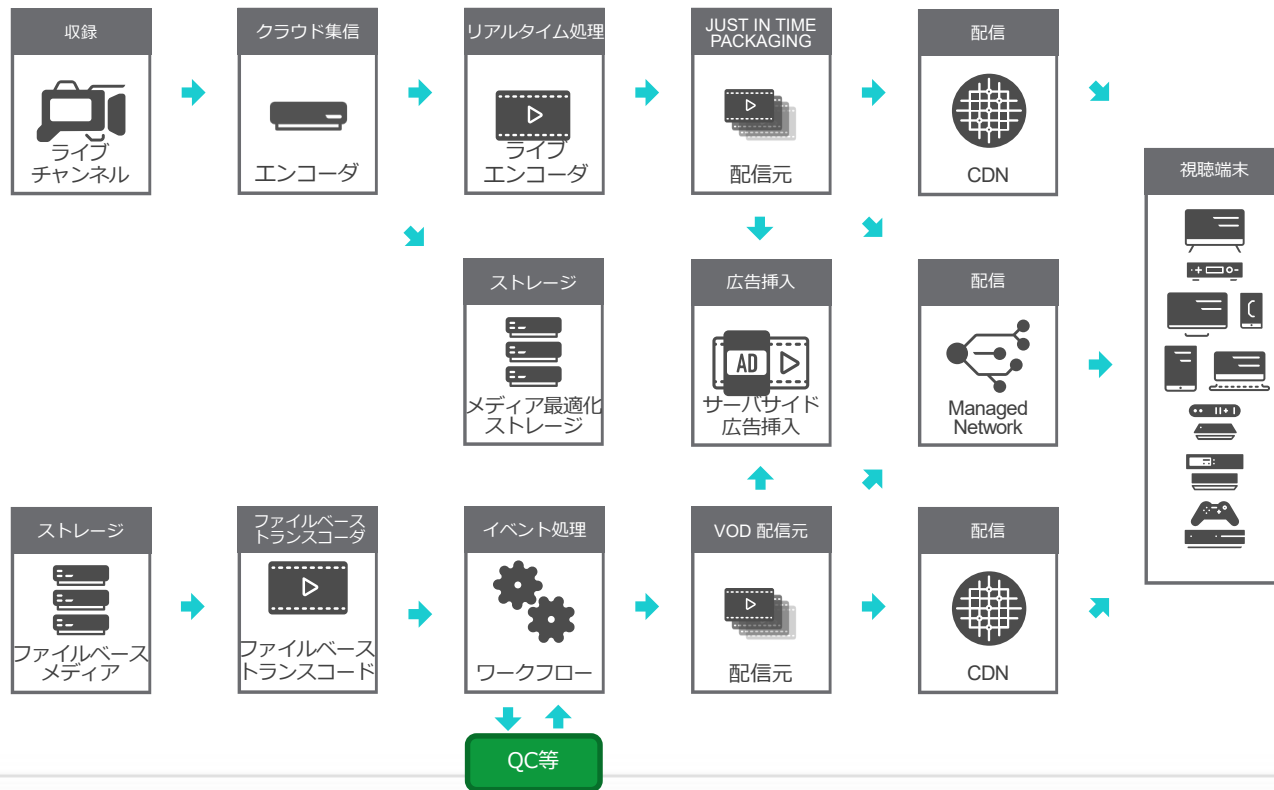
- OBS (Open Broadcaster Software)

ビデオ録画と生放送用の無料でオープンソースのソフトウェア。

Windows、Mac、Linuxですばやく簡単にダウンロードして配信を開始できます。

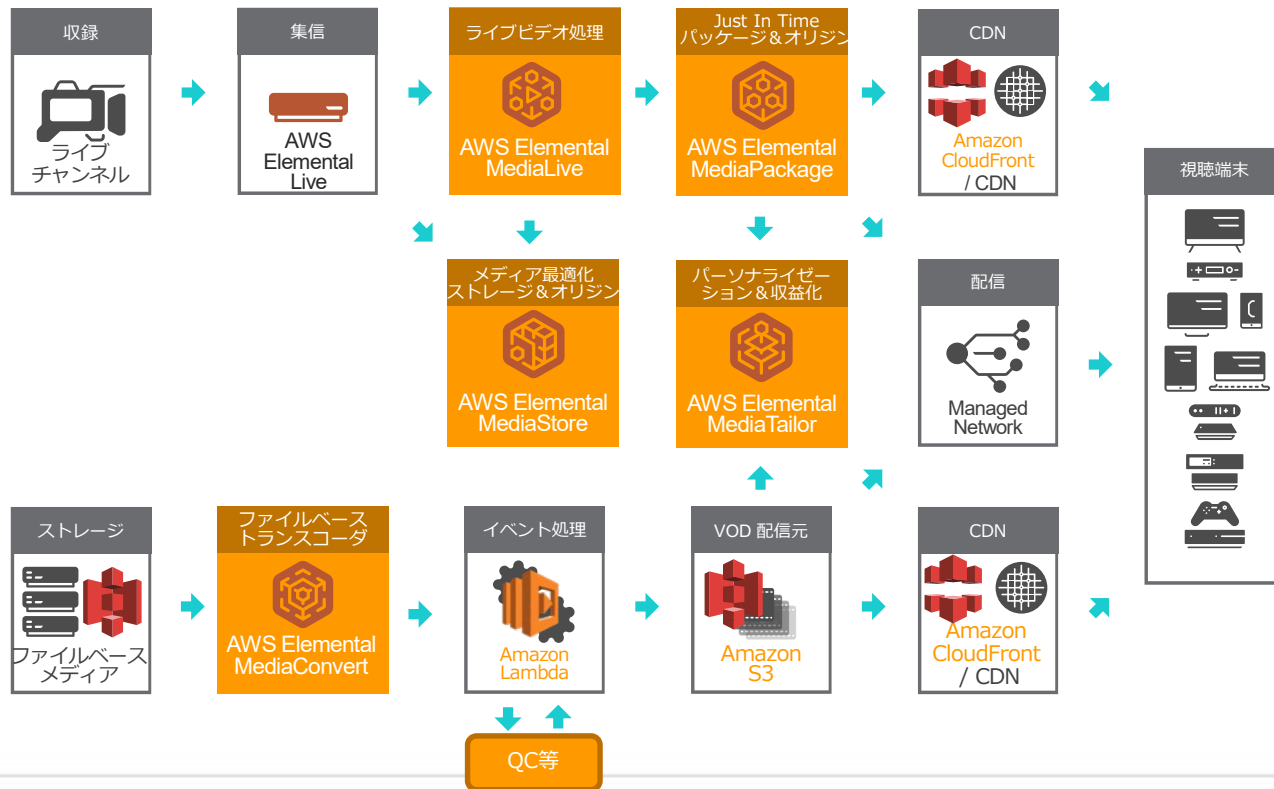
動画配信フロー

LIVE配信



AWS Media Servicesを利用した動画配信フロー

LIVE配信



本日のハンズオンの内容

1. シンプルな HLS ライブ配信
2. ライブ配信と並行してアーカイブ化

(4月13日 AWS Loftで以下シナリオは実行予定)

1. HLS & DASH のマルチフォーマット配信
2. タイムシフト再生 (オプション)
3. HLS用VODコンテンツ作成&配信
4. サーバーサイドでの広告挿入
5. VODファイルの Just-in-Time パッケージング (オプション)

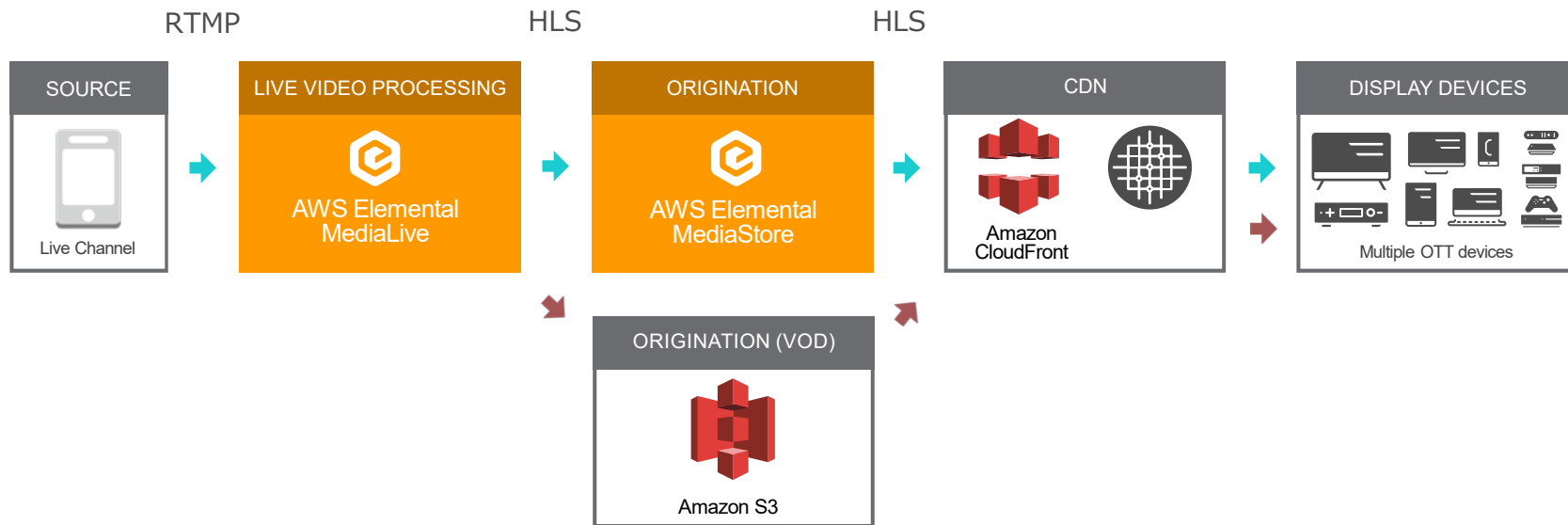
ハンズオン(1) シンプルな HLS ライブ配信

RTMP で MediaLive に打ち上げ、 MediaStore から HLS で配信する



ハンズオン(2) ライブ配信と並行してアーカイブ化

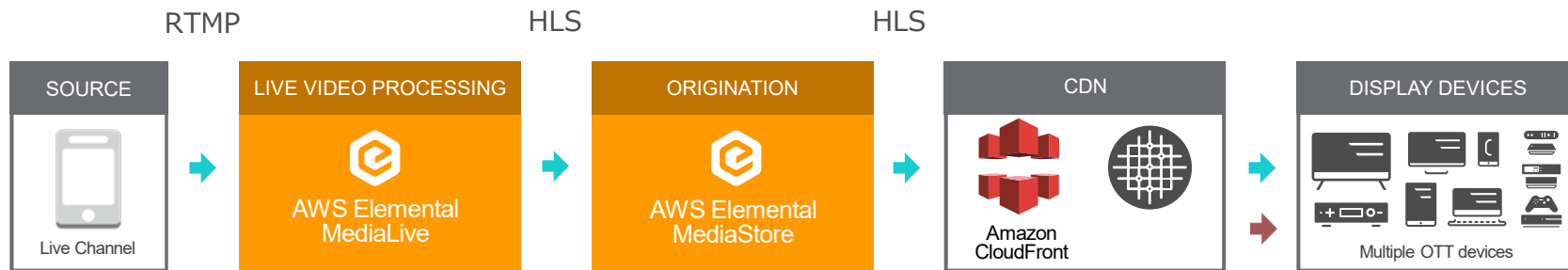
HLS でライブ配信しながら、後日 VOD 配信のためにアーカイブ化する



ハンズオン(1) シンプルな HLS ライブ配信

ハンズオン(1) シンプルな HLS ライブ配信 - 構成図

RTMP で MediaLive に打ち上げ、HLS で配信する

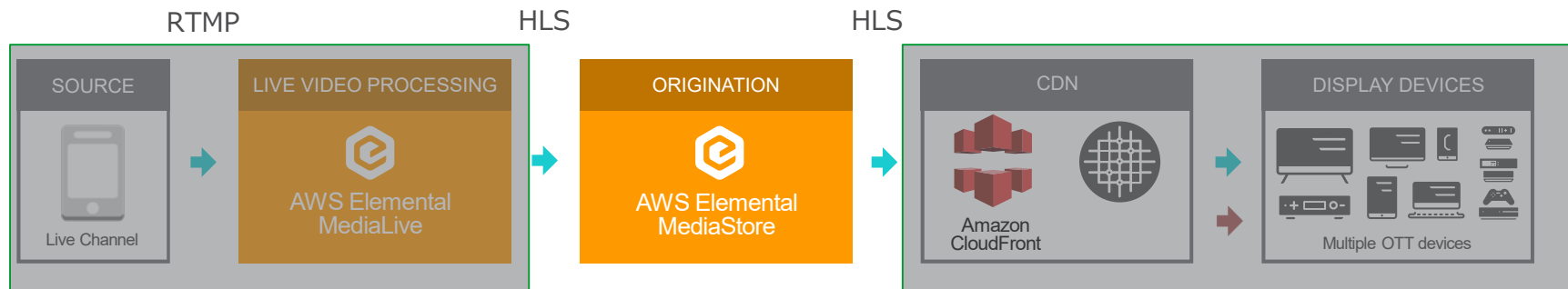


ハンズオン(1) 構築の流れ

- Step1: MediaStore のコンテナ作成
 - Step2: MediaLive のチャンネル設定
 - Step3: MediaLive のチャンネル起動
 - Step4: Source となるライブエンコーダーの設定
 - Step5: ライブチャンネルの視聴
-
- ※ CDN (CloudFront) の設定は時間の都合で今回は割愛します

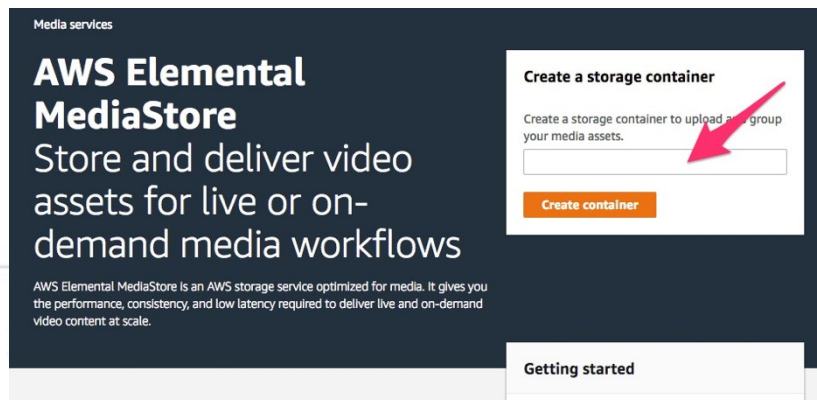
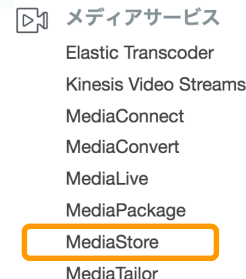
ハンズオン(1) 構築の流れ

Step1 : MediaStore のコンテンツ作成

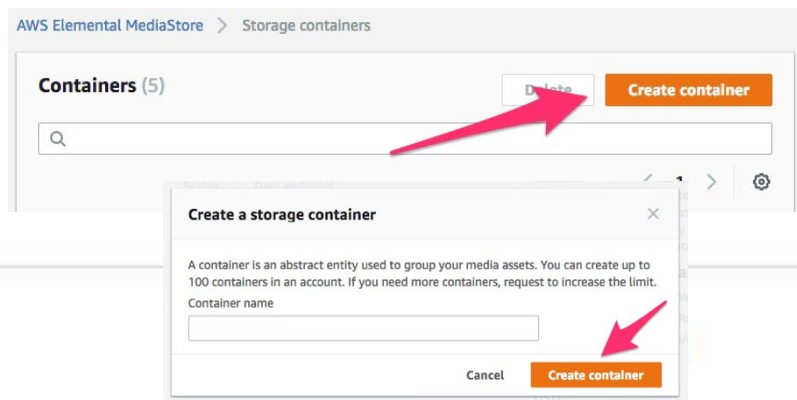


Step1: MediaStore のコンテナ作成

- AWS マネージメントコンソールにアクセス、「MediaStore」を選択
- MediaStoreの画面にて
Create a new channelでContainer名を「DemoContainer{自身の名前}」と入力し「Create container」ボタンを押す
Containers 画面に遷移していれば「Create container」ボタンを押し
Container名を入力する

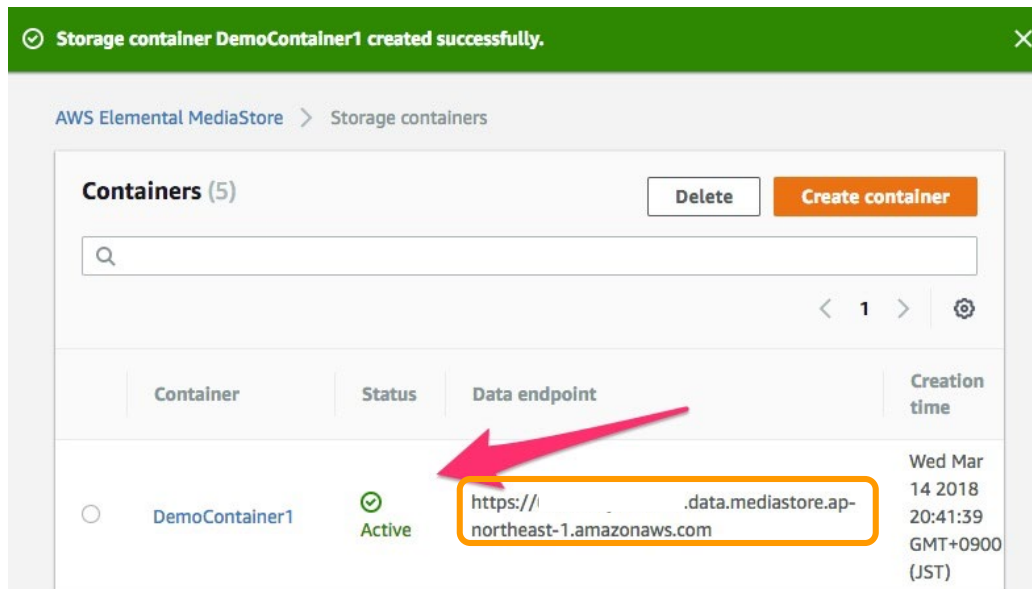
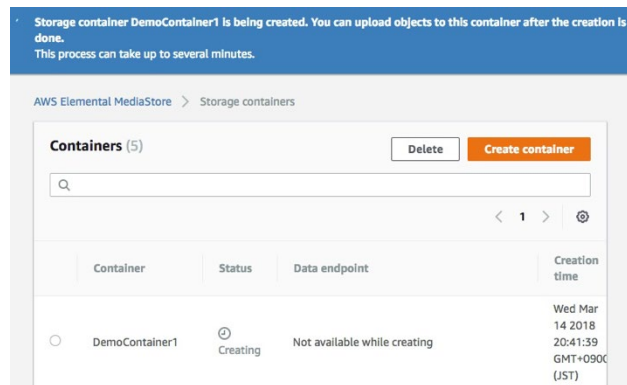


OR



Step1: MediaStore のコンテナ作成

■ コンテナ作成完了を確認



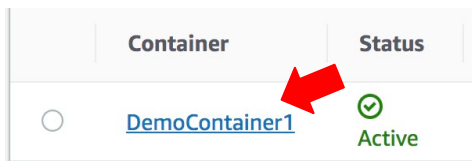
■ Data endpointの値を後にMediaLiveのOutputに設定するため記録

Step1: MediaStore のコンテナ作成

- コンテナのポリシーを変更（ルートのみアクセス可から「*」へ）

- 本番運用では要件にあったポリシーに変更ください
- 参考: コンテナポリシーの例 - AWS Elemental MediaStore

https://docs.aws.amazon.com/ja_jp/mediastore/latest/ug/policies-examples.html



Edit policy
Container policy

```
{
  "Version": "2012-10-17",
  "Statement": [{
    "Sid": "MediaStoreFullAccess",
    "Action": [ "mediastore:*" ],
    "Principal": { "AWS": "arn:aws:iam::714730761449:root" },
    "Effect": "Allow",
    "Resource": "arn:aws:mediastore:ap-northeast-1:714730761449:container/DemoContainer1/*",
    "Condition": {
      "Bool": { "aws:SecureTransport": "true" }
    }
  }]
}
```



Edit DemoContainer1 storage container policy

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [ {
4     "Sid": "MediaStoreFullAccess",
5     "Effect": "Allow",
6     "Principal": {
7       "AWS": "*"
8     },
9     "Action": "mediastore:*",
10    "Resource": "arn:aws:mediastore:ap-northeast-1:714730761449:container/DemoContainer1/*",
11    "Condition": {
12      "Bool": {
13        "aws:SecureTransport": "true"
14      }
15    }
16  } ]
17 }
```

Cancel

Save

Step1: MediaStore のコンテナ作成

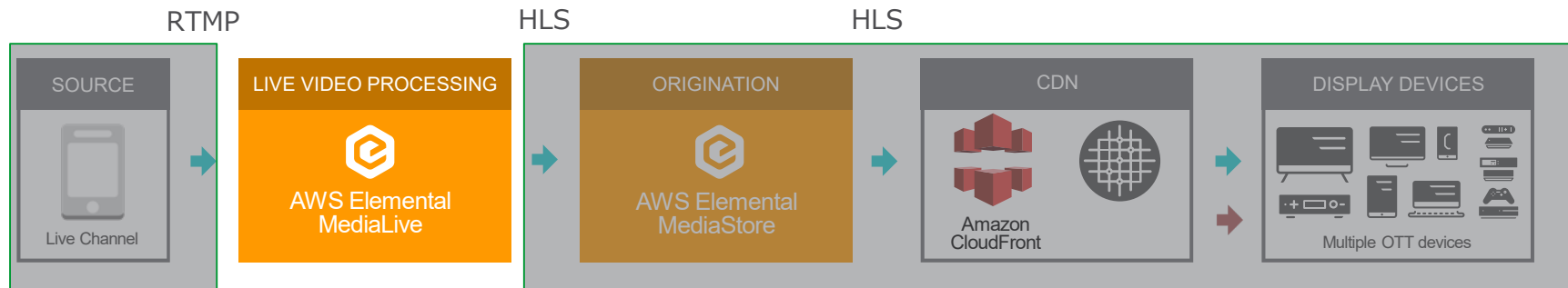
- 同画面を下にスクロールしCORS設定を追加
(本資料とは別のAssetファイルよりCORS構文を張り付け)
 - 本番運用では要件にあったポリシーに変更ください

```
1 {  
2   {  
3     "AllowedHeaders": [  
4       "  
5     ],  
6     "AllowedMethods": [  
7       "GET",  
8       "HEAD",  
9     ],  
10    "AllowedOrigins": [  
11      "  
12    ],  
13    "MaxAgeSeconds": 3000  
14  }  
15 }
```

Cancel Save

Step2: MediaLive のチャンネル設定

Step2 : MediaLive のチャンネル設定



Step2: MediaLive のチャンネル設定

- AWS マネージメントコンソールにアクセス
「MediaLive」を選択
- MediaLiveの画面にて
「Create channel」を押す



AWS Elemental MediaLive > Channels

Channels (1)

Start

Stop

Clone

Delete

Create channel

※初めて触る方は下記の画面が表示されます

Media Services

AWS Elemental MediaLive
Live content conversion for
multiscreen delivery.

AWS Elemental MediaLive is a video service that lets you easily create live outputs for broadcast and streaming delivery.

Get started

Create a channel that encodes your input into multiple groups and outputs.

Create channel



Step2: MediaLive のチャンネル設定

- Channel and input details画面のChannel templateの設定カラムにて「Live event - HLS」のTemplateを選択

Create channel

Channel

Channel and input details

General settings

Input settings

Output groups (0) Add

An output group can contain one or many outputs. For each output, you can configure the encoding settings, and add or remove audio, video, and caption tracks.

Cancel Create channel

Channel and input details

General info

Channel name – required

IAM role
Defines the permissions for accessing your channel. If you create an IAM role instead of using an existing role, it might take a few minutes before the service makes the new role available for you to use.

☒ Use existing role
☐ Create role from template
The IAM user MediaLiveAccessRole is already created.

☐ Specify custom role ARN

Use existing role
Use an existing IAM role. This field displays only the roles that include a compatible mediaweb.amazonaws.com service principal. It's your responsibility to ensure that this role has the permissions that AWS Elemental MediaLive needs.

MediaLiveAccessRole

arnaws:iam::520608752924:role/MediaLiveAccessRole

☒ Remember role
AWS Elemental MediaLive will save this IAM role for you. You can choose to use it the next time you create a channel.

Channel input

☒ Create input

スクロール

Channel template

Template

Select the channel template that you would like reuse. Existing channel templates will not change you make.

Channel templates

HTTP live streaming	HLS
Stream live media in compliance with Apple's TN2224 specification.	
HTTP live streaming	MediaPackage
Stream live media in compliance with Apple's TN2224 specification.	
Live event	HLS
Stream live event content with the best audio and video quality.	
Live event	MediaPackage
Stream live event content with the best audio and video quality.	
Live action	HLS
Stream live-action content like sports, racing, and any other content with fast-moving objects.	
Live action	MediaPackage
Stream live-action content like sports, racing, and any other content with fast-moving objects.	
RTMP Push	RTMP
Push a live video stream to social media destinations	

Existing channels

Step2: MediaLive のチャンネル設定

- Channel nameを「DemoLiveChannel{自身の名前}」に設定
- 初めてのの方は Create role from template を選択しIAMRoleを作る
- その後、右記のようにUse Existing roleにチェックが付いていることを確認し、左カラムの入力アタッチメントから「Add」を選択し次の画面で「入力の作成」を選択

The screenshot displays the AWS Elemental MediaLive console interface for creating a new channel. The interface is divided into two main sections: 'Channel' on the left and 'Channel and input details' on the right.

Channel Section:

- Channel and input details:** This tab is selected and highlighted in blue.
- General settings:** A link to view general settings.
- Input attachments (0):** A section with an 'Add' button, circled in orange and labeled with a circled '4'. Below it, a description states: 'An input attachment references an input and a unique name to be associated with this channel.'
- Output groups (0):** A section with an 'Add' button.

Channel and input details Section:

- General info:**
 - Channel name:** A text input field, circled in orange and labeled with a circled '1'.
 - IAM role:** A section with two radio buttons: 'Use existing role' (selected) and 'Create role from template' (circled in orange and labeled with a circled '2'). Below the radio buttons, a description states: 'Defines the permissions for accessing your channel. If you create an IAM role instead of using an existing role, few minutes before the service makes the new role available for you to use.'
 - Use existing role:** A dropdown menu showing 'MediaLiveAccessRole', circled in orange and labeled with a circled '3'.

Attach input Section:

- Attach input:** A section with a 'Create input' button, circled in orange and labeled with a circled '5'. Below it, a message states: 'You don't have any available inputs to attach.' with a circular icon containing a 'C'.

Step2: MediaLive のチャンネル設定/Input 作成

- Input nameに「DemoInputChannel{自身の名前}」と入力、Input typeは「RTMP(プッシュ)」を選択、入力セキュリティグループで「作成」を選び、ボックスに値「0.0.0.0/0」を入力し「入力セキュリティの作成」をクリック

Input details

Input name – *required*

DemoInputChannel_20190515

Input type – *required*

☐ RTP
Push your source to fixed endpoints with the real-time transport protocol.

☒ RTMP (push)
Push your source to fixed endpoints with the real-time messaging protocol.

☐ RTMP (pull)
Pull your source from external endpoints with the real-time messaging protocol.

☐ HLS
Pull your source from external endpoints with the HTTP protocol.

☐ MP4
Pull your source from external endpoints for MP4 files.

☐ MediaConnect
Push your MediaConnect flow output to fixed endpoints using AWS Media services protocol.

Input security group

Choose an input security group to use with your RTP or RTMP PUSH input type.

☐ Use existing
Attach an existing input security group to your channel.

☒ Create
Attach a new input security group to your channel.

Add CIDR-formatted strings to the new input security group, separated by commas or newlines

Input security group

Choose an input security group to use with your RTP or RTMP PUSH input type.

☒ Use existing
Attach an existing input security group to your channel.

☐ Create
Attach a new input security group to your channel.

Use existing
Choose an existing input security group.

Input Security Group 3 930178
1 CIDR block
0.0.0.0/0

Step2: MediaLive のチャンネル設定/Input 作成

- 同じ画面で下にスクロールし、「入力の送信先」に Application アプリケーション名とインスタンス を設定（DemoA/A、DemoB/B）、「作成」を押す

Input destinations

For RTMP PUSH inputs, you must specify two destination application names and instances.

Destination	Application name and instance	
Destination A	<input type="text" value="DemoA"/>	<input type="text" value="A"/>
Destination B	<input type="text" value="DemoB"/>	<input type="text" value="B"/>

CancelCreate

Step2: MediaLive のチャンネル設定/Input 作成

- 遷移後の画面（入力をアタッチ）にて作った入力を選択されていることを確認（選択されていない場合は選択）し、「確認」を選択

Attach input [Create input ↗](#)

Input
Choose a detached input to add to this channel. A maximum of 2 push inputs can be attached.

DemolInputChannel
6631696
arn:aws:medialive:ap-northeast-1: [redacted] :input:6631696

RTMP_PUSH ▼

↻

Input destinations
The destinations to send the content to.

1. [rtmp://\[redacted\]:1935/DemoA/A](#)
2. [rtmp://\[redacted\]:1935/DemoB/B](#)

[▶ Input security group \(1\)](#)

Attachment name
Unique name for the input attachment. Cannot be edited once created.

DemolInputChannel

Confirm

Step2: MediaLive のチャンネル設定/MediaStore 出力

- 「出力グループ-1.HLS」を選択、HLS Group destination A/B にStep1で作った MediaStore の URLを入力
- A/B それぞれの URL を以下のように修正する
 - URI スキームを「https」から「mediastoressl」へ変更
 - A/B それぞれ異なるパスになるように、/DemoA/live, /DemoB/live を付与する。

例) mediastoressl://{MediaStoreのURL}/DemoA/live

AWS Elemental MediaLive > Channels > Create channel

Create channel

Channel
Channel and input details
General settings
Input settings

Output groups (1) Add
1. HD (HLS)
Output 1 (1080p30)
Output 2 (720p30)
Output 3 (480p30)
Output 4 (240p30)

1. HD
HLS group destination A
Type a destination for your first HLS group.
URL
mediastoressl://es7wym7s5uquv6.data.mediastore.ap-northeast-1.amazonaws.com/Demc
▶ Credentials (optional)

HLS group destination B
Type a destination for your second (redundant) HLS group.
URL
mediastoressl://es7wym7s5uquv6.data.mediastore.ap-northeast-1.amazonaws.com/Demc
▶ Credentials (optional)

<https://docs.aws.amazon.com/medialive/latest/ug/about-hls-file-locations.html>

Step2: MediaLive のチャンネル設定/MediaStore 出力

- HLS 設定 - CDN 設定は「Hls media store」を指定
- Manifest and Segments にて以下の値を調整
 - セグメント長: 2
 - セグメント数: 3

HLS settings

Name

HD

CDN Settings [Info](#)

Hls media store ▼

▼ Manifest and Segments

Output Selection [Info](#)

MANIFESTS_AND_SEGMENTS ▼

Mode [Info](#)

LIVE ▼

TS File Mode [Info](#)

SEGMENTED_FILES ▼

Stream Inf Resolution [Info](#)

INCLUDE ▼

Manifest Duration Format [Info](#)

INTEGER ▼

Segment Length [Info](#)

2

Num Segments [Info](#)

3

Keep Segments [Info](#)

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Step2 : MediaLiveでのチャンネル設定

- 画面左上の「チャンネルの作成」を押し、Live Channelを作成
下のように一覧画面に作成したチャンネルが「Idle」状態できていることを確認

Create channel

Channel

Channel and input details

General settings

Input settings

Output groups (1)

Add

1. HD (HLS)

Output 1 (1080p30)

Output 2 (720p30)

Output 3 (480p30)

Output 4 (240p30)

General info

Channel name - required

DemoChannel

IAM role

Defines the permissions for accessing your channel. If you create an IAM role instead of using an existing role, it might take a few minutes before the service makes the new role available for you to use.

☒ Use existing role

☐ Create role from template

The IAM user MediaLiveAccessRole is already created.

☐ Specify custom role ARN

Use existing role

Use an existing IAM role. This field displays only the roles that include a compatible mediaLive.amazonaws.com service principal. It's your responsibility to ensure that this role has the permissions that AWS Elemental MediaLive needs.

MediaLiveAccessRole

arn:aws:iam::830668171284:role/MediaLiveAccessRole

☒ Remember role

AWS Elemental MediaLive will save this IAM role for you. You can choose to use it the next time you create a channel.

Start Stop Edit Clone Delete Create channel

< 1 > ⚙

Cancel Create channel

Channel input

Create input

Name

State

ID

ARN

Input



DemoLiveChannel

Idle

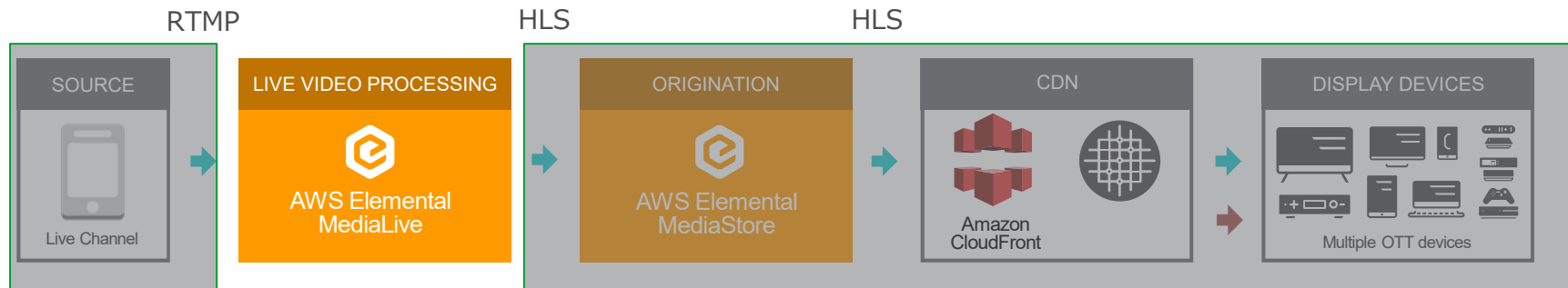
7[REDACTED]

arn:aws:medialive:ap-northeast-1:[REDACTED]:channel:[REDACTED]



Step3: MediaLive のチャンネル起動

Step3 : MediaLive のチャンネル起動



Step3 : MediaLiveでのChannel配信スタート

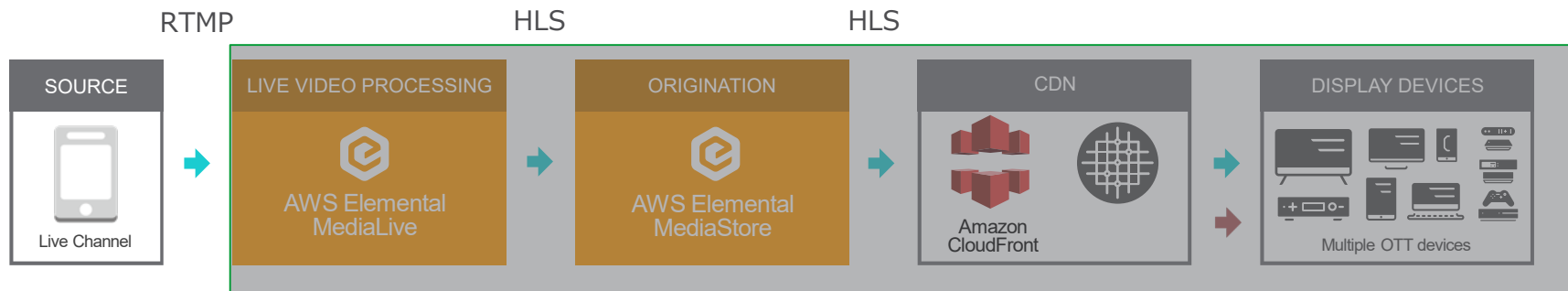
- MediaLive画面でChannels画面へ移動、「開始」を押し、状態が「Idle」→「Running」になることを確認（数分掛かります）

The screenshot shows the AWS Elemental MediaLive 'Channels' management interface. At the top, there are buttons for 'Start', 'Stop', 'Edit', 'Clone', 'Delete', and 'Create channel'. A red arrow points to the 'Start' button. Below these buttons is a table with columns: Name, State, ID, ARN, and Input. The table contains one entry, 'DemoLiveChannel', which is currently in the 'Idle' state. An orange box highlights the 'Idle' state, and a yellow arrow points down from it to another orange box containing a green checkmark and the word 'Running', indicating the target state after starting the channel.

Name	State	ID	ARN	Input
DemoLiveChannel	Idle	[REDACTED]	arn:aws:medialive:ap-northeast-1:[REDACTED]:channel:[REDACTED]	[REDACTED]

Step4: Source となるライブエンコーダーの設定

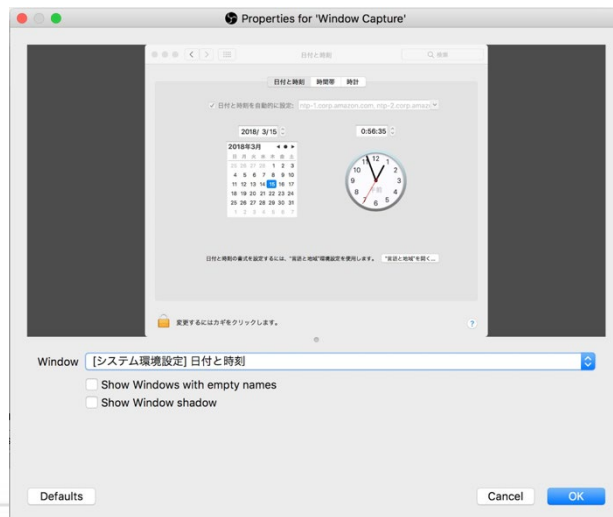
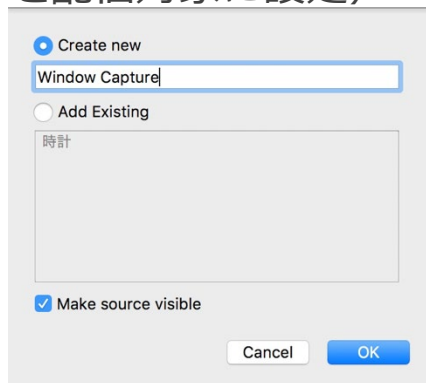
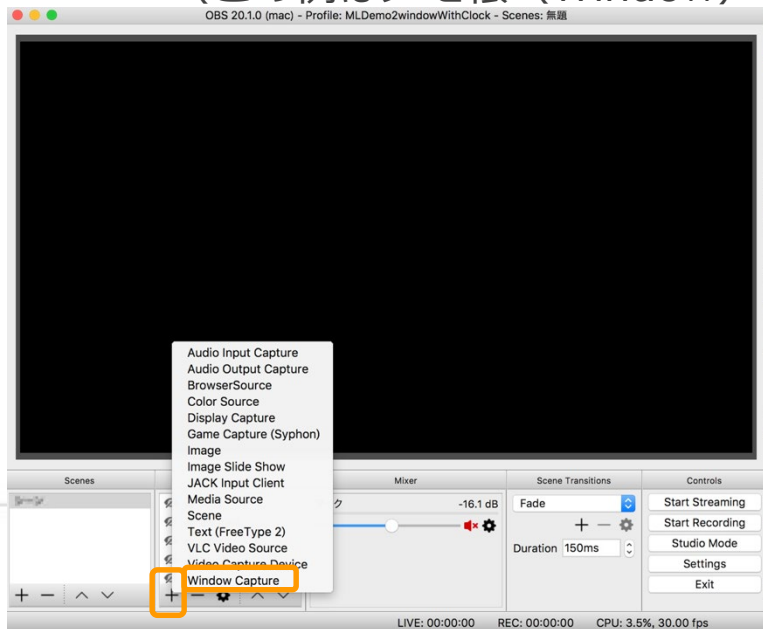
Step4 : Source となるライブエンコーダーの設定



※参考として本スライド以降でOBSとZixiの設定方法について記述します

Step4: OBS を使った配信手順

- OBSをダウンロード & Install
 - <https://obsproject.com/ja/download>
- 入力ソースの設定：以下ステップ参照
 - (この例はメモ帳 (Window) を配信対象に設定)



Step4: OBS を使った配信手順

- OBS Stream 設定: MediaLive 画面の「入力」 - 「作成したInput」 - 「Endpoints」を参照して入力

The image shows the OBS Studio interface and the AWS Elemental MediaLive console. In OBS, the 'Settings' window is open to the 'Stream' tab. The 'Stream Type' is set to 'Custom Streaming Server'. The 'URL' field contains 'rtmp://[redacted]:1935/DemoA/'. The 'Stream key' field contains 'A'. The 'Use authentication' checkbox is unchecked. In the AWS Elemental MediaLive console, the 'Inputs' page is shown for 'DemoInputChannel'. The 'Endpoints' section lists two endpoints: 'rtmp://[redacted]:1935/DemoA/A' and 'rtmp://[redacted]:1935/DemoB/B'. An orange arrow points from the 'Endpoints' section to the 'URL' field in OBS. A blue arrow points from the 'Stream key' field in OBS to the first endpoint in the AWS console. A yellow arrow points from the 'Stream key' field in OBS to the 'Aと入力' text.

Settings

Stream Type: Custom Streaming Server

Endpointのポート番号, 「DemoA/」までを入力

URL: rtmp://[redacted]:1935/DemoA/

Stream key: A

Use authentication

Aと入力

スクロール

Endpoints (2)

URL

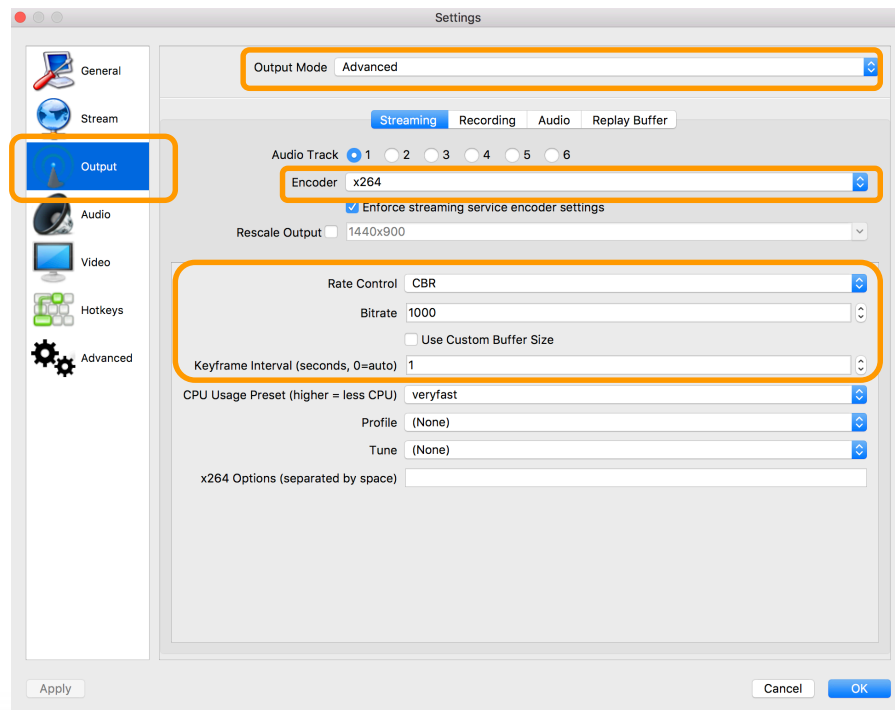
rtmp://[redacted]:1935/DemoA/A

rtmp://[redacted]:1935/DemoB/B

Step4: OBS を使った配信手順

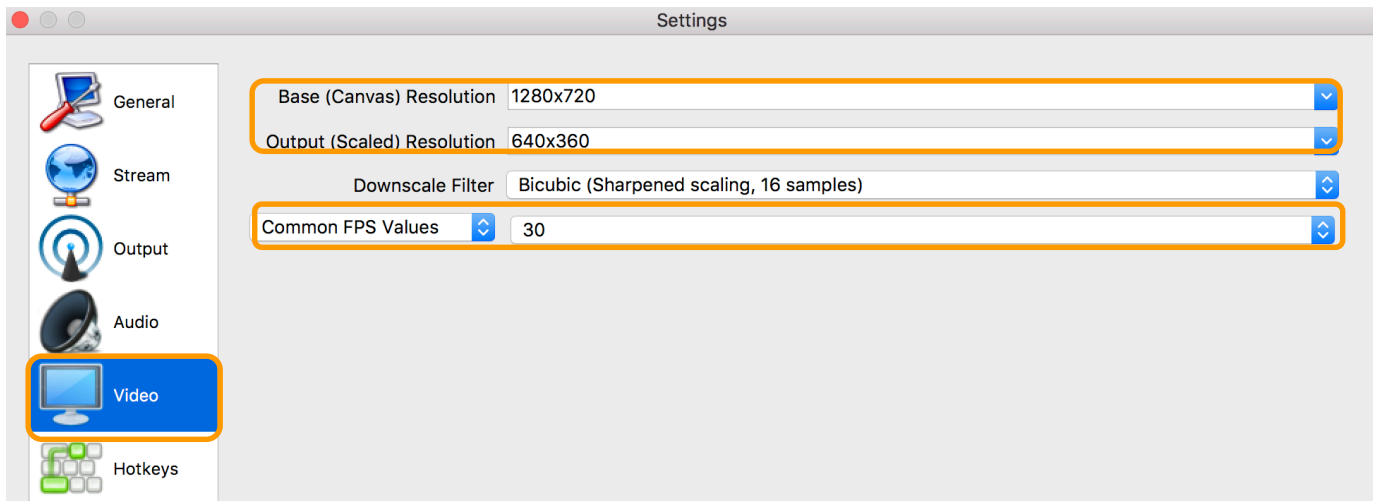
- OBS 出力 設定: 出力モード 「詳細」 を選択し、以下の値に設定する

- エンコーダ : x264
- レート制御 : CBR
- ビットレート : 1000
- キーフレーム間隔 : 1

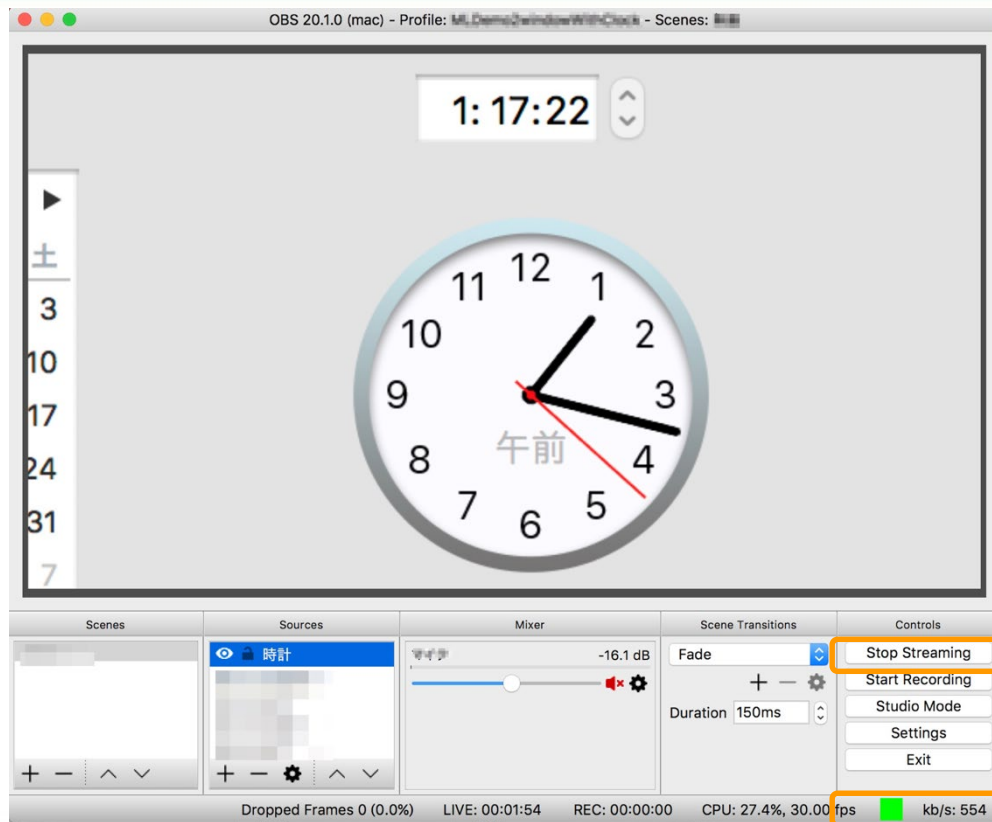


Step4: OBS を使った配信手順

- 映像 設定: 解像度を以下のように設定
 - 基本解像度 : 1280x720
 - 出力解像度 : 640x360
 - FPS : 30



Step4: 配信スタート！

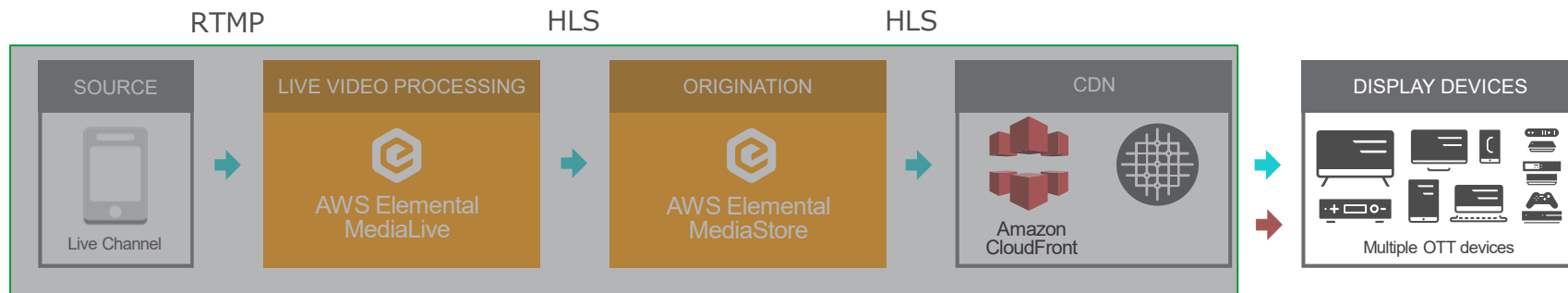


「Start Streaming」
をクリック！

緑色であることを確認

Step5:ライブチャネルの視聴

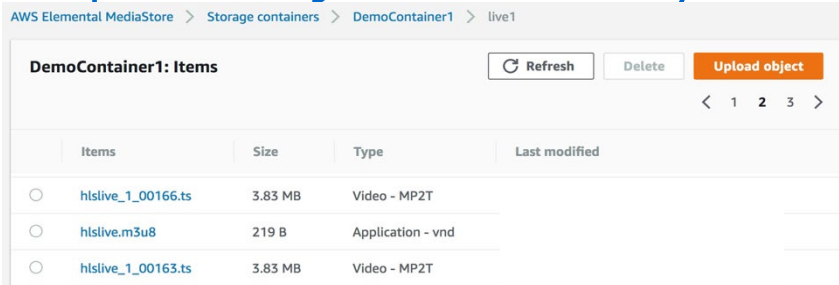
Step5 : ライブチャネルの視聴



Step5 : ライブチャンネルの視聴

- MediaStore画面でContainer「DemoContainer{自身の名前}」内の「*.m3u8」を選択、「Object name」をコピーしSafari等のHLS対応ブラウザで表示

<https://hls-js-latest.netlify.com/demo/> でもテストできます。

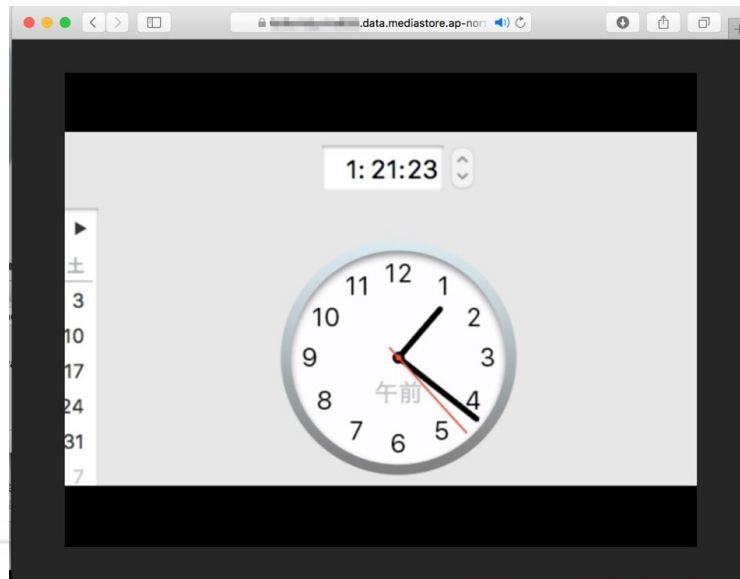


AWS Elemental MediaStore > Storage containers > DemoContainer1 > live1 > hlslive.m3u8

live1/hlslive.m3u8

Object name

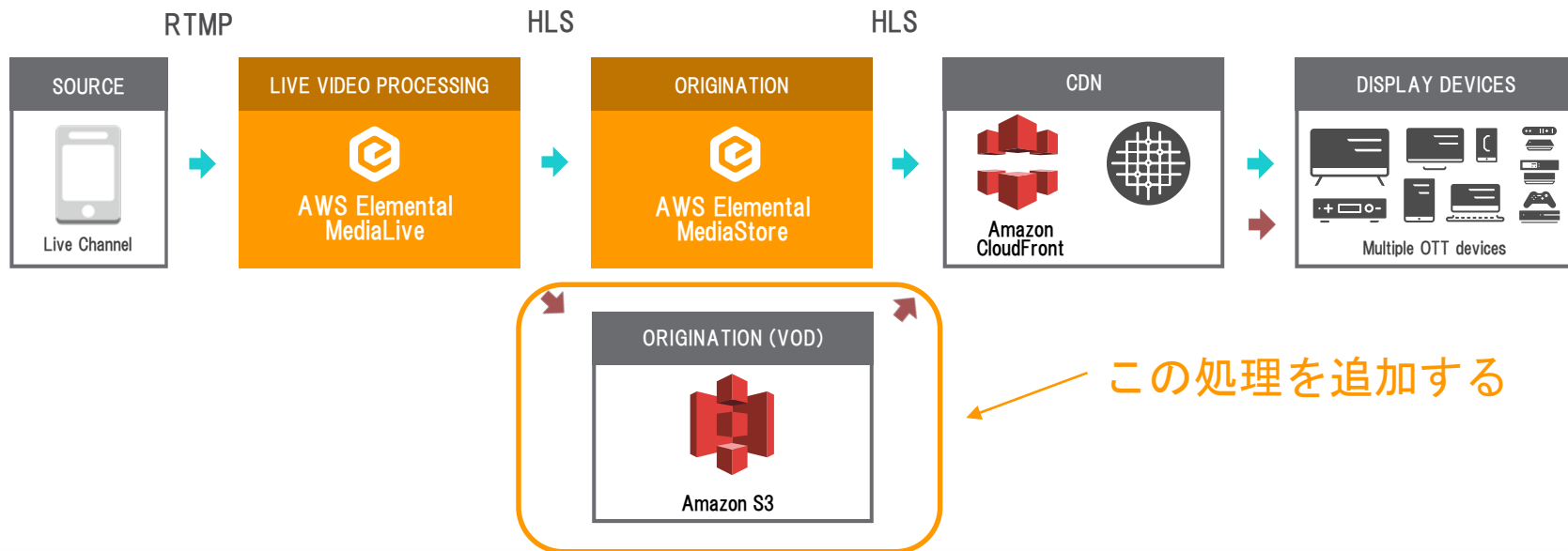
[https://\[redacted\].data.mediastore.ap-northeast-1.amazonaws.com/live1/hlslive.m3u8](https://[redacted].data.mediastore.ap-northeast-1.amazonaws.com/live1/hlslive.m3u8)



ハンズオン(2) ライブ配信と並行してアーカイブ化

ハンズオン(2) ライブ配信と並行してアーカイブ化

HLS でライブ配信しながら、後日 VOD 配信するためにアーカイブ化する
今回は HLS VOD Mode を利用する



ハンズオン(2) 構築の流れ

- Step1: S3 Bucket の作成
- Step2: MediaLive を停止しチャンネル設定変更
- Step3: MediaLive のチャンネル起動、配信開始
- Step4: S3 にアーカイブ動画が保存されることを確認

Step1: S3 Bucket の作成

- S3 Console を開き、「demo-archive-{自身の名前}」でバケットを作成

Amazon S3

Search for buckets

+ Create bucket

Delete bucket

Bucket name ↑

Create bucket

1 Name and region 2 Configure options 3 Set permissions 4 Review

Name and region

Bucket name

demo-archive-yourname

Region

Asia Pacific (Tokyo)

Copy settings from an existing bucket

Select bucket (optional) 18 Buckets

Create Cancel Next

Step2: MediaLive を停止しチャンネル設定変更

- ハンズオン(1) で起動したチャンネルを停止し、編集開始する

The screenshot shows the AWS Elemental MediaLive console interface. The 'Channels' page is displayed, showing a table of channels. The 'DemoLiveChannel' is highlighted in blue. The 'Stop' button is circled in orange, and an arrow points to the 'Actions' dropdown menu. The 'Edit' option is highlighted in the dropdown menu.

Channels (4)

Name	State	ID
	Idle	2123111
	Idle	2101743
DemoLiveChannel	Running	2852770
	Idle	9941027

Actions

- Modify
- Edit**
- Clone
- Delete
- Other actions for
 - Download custom template
 - View Pipeline A logs
 - View Pipeline B logs
 - View matched reservation offerings

Step2: MediaLive を停止しチャンネル設定変更

- 「Output groups」の「Add」を選択し、Output group type の中から HLS を選択し、「Confirm」を押す

AWS Elemental MediaLive > Channels > Edit

Edit channel

Channel

Channel and input details

General settings

Input attachments (1) Add

DemolInputChannel_20190515
Input #8110830

Output groups (1) Add

1. HD (HLS)

Output 1 (1080p30)

Output 2 (720p30)

Output 3 (480p30)

Output 4 (240p30)

Add output group

Choose output group type
(The type of group determines how outputs are transported or packaged.)

☒ HLS
Send live audio, video, and captions to smartphones, tablets, computers, and other AWS Media Services with HTTP Live Streaming (HLS).

☐ Archive
Archive your live audio, video, and captions to Amazon S3.

☐ Microsoft Smooth
Send live audio, video and captions to an origin server or CDN with Microsoft Smooth Streaming.

☐ UDP
Broadcast live audio, video, and captions with RTP or UDP.

☐ RTMP
Push live audio, video and captions to an RTMP destination.

☐ Frame capture
Send a series of frame capture files to Amazon S3.

☐ MediaPackage
Send live audio, video, and captions to AWS Elemental MediaPackage.

Cancel Update channel

Confirm

※Archiveという項目もありますが、出力はTSファイル（最大300秒）が順次作成されファイルごとに映像の連続性を示す内部カウンタもリセットされてしまうため再編集等、二次利用を想定する場合はArchiveよりもHLSが適しているケースがあります

Step2: MediaLive を停止しチャネル設定変更

- HLS group destination A/B それぞれに、 Step1 で作成した S3 の URI を入力する。
 - destination A:
s3ssl://demo-archive-yourname/DemoA/live
 - destination B:
s3ssl://demo-archive-yourname/DemoB/live
- HLS settings を以下のように修正する。
 - Name: 「VOD」
 - CDN Settings: 「Hls basic put」

The screenshot displays the AWS MediaLive console interface for configuring a channel. On the left, a sidebar shows the 'Channel' configuration with sections for 'Channel and input details', 'General settings', and 'Input settings'. Below this, 'Output groups (2)' are listed, including '1. HD (HLS)' and '2. VOD (HLS)'. The '2. VOD (HLS)' group is selected, showing 'Output 1 (1)'.

The main content area shows the '2. VOD' configuration. It includes a 'Remove' button in the top right. The 'HLS group destination A' section prompts the user to 'Type a destination for your first HLS group.' and features a 'URL' input field containing 's3ssl://demo-archive-yourname/DemoA/live'. Below this is a 'Credentials (optional)' section. The 'HLS group destination B' section prompts for a 'destination for your second (redundant) HLS group.' and has a 'URL' input field containing 's3ssl://demo-archive-yourname/DemoB/live', also followed by a 'Credentials (optional)' section.

The 'HLS settings' section is highlighted with an orange box. It contains a 'Name' input field with the value 'VOD' and a 'CDN Settings' dropdown menu currently set to 'Hls basic put'. There is an 'Info' link next to the dropdown.

At the bottom of the configuration area, there are 'Cancel' and 'Update channel' buttons.

<https://docs.aws.amazon.com/medialive/latest/ug/about-hls-file-locations.html>

Step3: MediaLive を停止しチャンネル設定変更

- 同画面の下の Manifest and Segments を開き、 Mode を VOD に変更する

▼ Manifest and Segments

Output Selection [Info](#)

MANIFESTS_AND_SEGMENTS ▼

Mode [Info](#)

VOD ▼

TS File Mode [Info](#)

SEGMENTED_FILES ▼

Stream Inf Resolution [Info](#)

INCLUDE ▼

Manifest Duration Format [Info](#)

FLOATING_POINT ▼

Segment Length [Info](#)

10

Num Segments [Info](#)

10

Keep Segments [Info](#)

21

Step3: MediaLive を停止しチャネル設定変更

- Output Groups > 2.VOD > Output 1を選択
- Stream settings を以下のように入力する

- Video

- Width:1280
- Height:720
- Codec Settings: H.264
- Frame Rate
 - Framerate Control: SPECIFIED
 - Framerate Numerator: 30
 - Framerate Denominator: 1

- Update channel を押して編集完了

HLS outputs (1) Add output

Add one or more outputs to this group. Each output has unique stream settings that enable you to choose the video, audio, and captions that you need.

Output	Name modifier	Actions
Output 1	_1	Settings ×

Stream settings Add video Add audio Add caption

Video Remove video

Video Description Name [Info](#)
video_dkjni

Width [Info](#)
1280

Height [Info](#)
720

Codec Settings [Info](#)
H264

▼ Frame Rate

Framerate Control [Info](#)
SPECIFIED

Framerate Numerator [Info](#)
30

Framerate Denominator [Info](#)
1

Scan Type [Info](#)
PROGRESSIVE

Step4: S3 にアーカイブ動画が保存されることを確認

- 「Start」 を押し、Stateが「Idle」 → 「Running」 になることを確認。
- ハンズオン(1) と同様に配信開始

The screenshot shows the 'DemoLiveChannel' interface. At the top right, there are 'Start' (highlighted with an orange box), 'Stop', and 'Actions' buttons. Below this is a 'Status' section with three columns: 'Channel state' (showing 'Idle' in a box with a downward arrow), 'Pipelines running' (showing '0'), and 'Active alerts' (showing 'Pipeline A' and 'Pipeline B' with minus signs). At the bottom left, a 'Running' button with a green checkmark icon is highlighted with an orange box.

Step4: S3 にアーカイブ動画が保存されることを確認

■ Step4: S3 にアーカイブ動画が保存されることを確認

Amazon S3 > demo-archive-yourname / DemoA

Overview

🔍 Type a prefix and press Enter to search. Press ESC to clear.

📁 Upload + Create folder Actions Asia Pacific (Tokyo) 🔄

Viewing 1 to 13

<input type="checkbox"/>	Name ↑	Last modified ↑	Size ↑	Storage class ↑
<input type="checkbox"/>	live.m3u8	Oct 1, 2018 8:58:20 PM GMT+0900	196.0 B	Standard
<input type="checkbox"/>	live_1.m3u8	Oct 1, 2018 8:59:56 PM GMT+0900	475.0 B	Standard
<input type="checkbox"/>	live_1_00001.ts	Oct 1, 2018 8:57:56 PM GMT+0900	7.8 MB	Standard
<input type="checkbox"/>	live_1_00002.ts	Oct 1, 2018 8:58:08 PM GMT+0900	7.7 MB	Standard
<input type="checkbox"/>	live_1_00003.ts	Oct 1, 2018 8:58:20 PM GMT+0900	7.6 MB	Standard
<input type="checkbox"/>	live_1_00004.ts	Oct 1, 2018 8:58:32 PM GMT+0900	7.6 MB	Standard
<input type="checkbox"/>	live_1_00005.ts	Oct 1, 2018 8:58:44 PM GMT+0900	7.9 MB	Standard
<input type="checkbox"/>	live_1_00006.ts	Oct 1, 2018 8:58:56 PM GMT+0900	7.4 MB	Standard
<input type="checkbox"/>	live_1_00007.ts	Oct 1, 2018 8:59:08 PM GMT+0900	8.0 MB	Standard
<input type="checkbox"/>	live_1_00008.ts	Oct 1, 2018 8:59:20 PM GMT+0900	7.7 MB	Standard
<input type="checkbox"/>	live_1_00009.ts	Oct 1, 2018 8:59:32 PM GMT+0900	7.6 MB	Standard

Thank you