

EZDRM Configuration AWS MediaConvert

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Version 4.0

Prerequisites

Installation of AWS Command Line Interface (CLI) pip install is required prior to configuration. Python 3.6 or higher is required.

For more information on requirements set up, visit this link in a browser:
<https://docs.aws.amazon.com/cli/latest/userguide/installing.html>

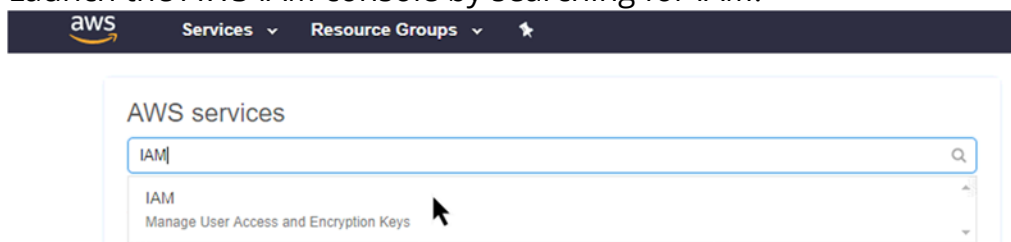
To download Python 3.6: <https://www.python.org/downloads/>

EZDRM AWS Speke Server Deployment

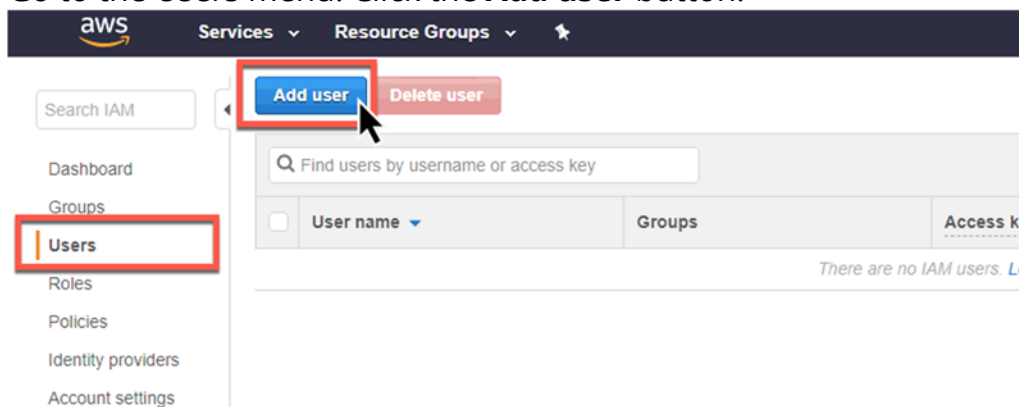
Step 1: Create a New User

To create a new User in AWS complete the following steps:

1. Launch the AWS IAM console by searching for IAM.



2. Go to the Users menu. Click the **Add user** button.



3. Enter a **User name**, we suggest “cli-access”. Then under the “Select Access Type” section, click the checkbox to enable **Programmatic access**. This enables an access key ID and secret access key for the AWS CLI.

Add user

1 2 3 4

Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name* cli-access

[Add another user](#)

Select AWS access type

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

Access type* ☒ **Programmatic access**
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.

☐ **AWS Management Console access**
Enables a **password** that allows users to sign-in to the AWS Management Console.

* Required

Cancel **Next: Permissions**

4. Click the **Next: Permissions** button.

5. Select the **Attach existing policies directly** menu and click the checkbox to select **AdministratorAccess**. This provides full access to AWS services and resources.

Add user

1 2 3 4

Set permissions for cli-access

[Add user to group](#) [Copy permissions from existing user](#) **[Attach existing policies directly](#)**

Attach one or more existing policies directly to the users or create a new policy. [Learn more](#)

[Create policy](#) [Refresh](#)

Filter: Policy type Search Showing 315 results

	Policy name	Type	Attachments	Description
☒	 AdministratorAccess	Job function	0	Provides full access to AWS services and resources.
☐	 AlexaForBusinessDeviceSetup	AWS managed	0	Provide device setup access to AlexaForBusiness services
☐	 AlexaForBusinessFullAccess	AWS managed	0	Grants full access to AlexaForBusiness resources and access to related AWS Services

6. Click the **Next: Review** button.

7. Review the new User settings on the Review page and click the **Create user** button.

Review

Review your choices. After you create the user, you can view and download the autogenerated password and access key.

User details

User name cli-access
AWS access type Programmatic access - with an access key

Permissions summary

The following policies will be attached to the user shown above.

Type	Name
Managed policy	AdministratorAccess

Cancel Previous **Create user**

8. The last step is the Success screen. Here you will have access to the **Console Login Link**, the **Access key ID** and the **Secret access key**. **Download the .csv** file with the key information and save this file where it can be accessed for future reference.

Important Note: This is the ONLY TIME you will have access to the **Secret access key**. It is important to download the .csv with this information or copy and paste the keys into a saved document. Once you leave this screen you will no longer have access to the **Secret access key**.

Add user

1 2 3 **4**

Success

You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: <https://888859578094.signin.aws.amazon.com/console>

Download .csv

User	Access key ID	Secret access key
cli-access	AKIAJXXXXXXJZ4MOY2KA	PoXXXXX/qLGAlhXXXXPoyS53pOGrc7VulHyaOg3 Hide

credentials (1).csv - Excel

	User name	Password	Access key ID	Secret access key	Console login link
1	cli-access		AKIAJXXXXXXJZ4MOY2KA	PoXXXXX/qLGAlhXXXXPoyS53pOGrc7VulHyaOg3	https://888859578094.signin.aws.amazon.com/console

Step 2: Create AWS CLI Access

To create the AWS CLI access, open Command Prompt.

1. Type the command **aws configure** and hit enter.
2. You will be prompted to enter your **AWS Access Key ID** and hit enter.
3. You will be prompted to enter your **Secret Access Key** and hit enter.
4. You will be prompted to enter your **Default region name** (Example: **us-east-1**) and hit enter. You can find the region that is closest to you here: <https://docs.aws.amazon.com/general/latest/gr/rande.html>
5. You will be prompted to enter the Default output format and hit enter. You will enter the format **json**.

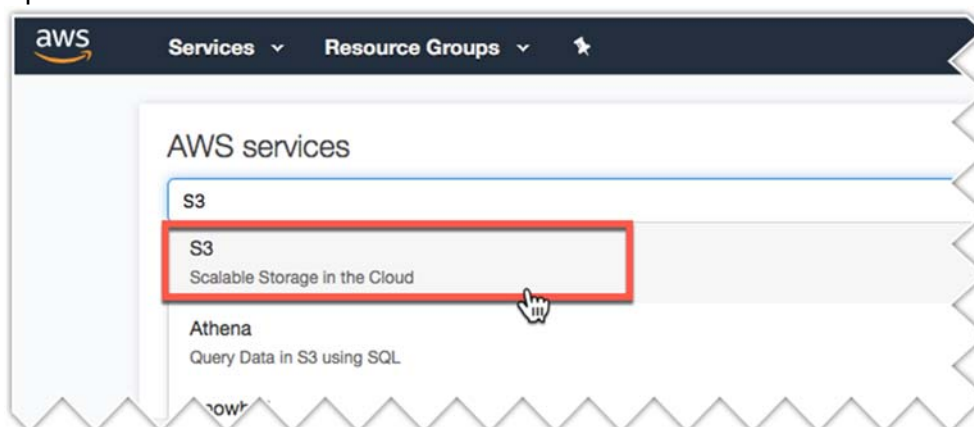
Sample Command Prompt:

```
C:\Users\User>aws configure
AWS Access Key ID [*****Y2KA]: your-access-key-id-here
AWS Secret Access Key [*****a0g3]: your-secret-access-key-id-here
Default region name [us-east-1]: your-region-here
Default output format [json]: json
```

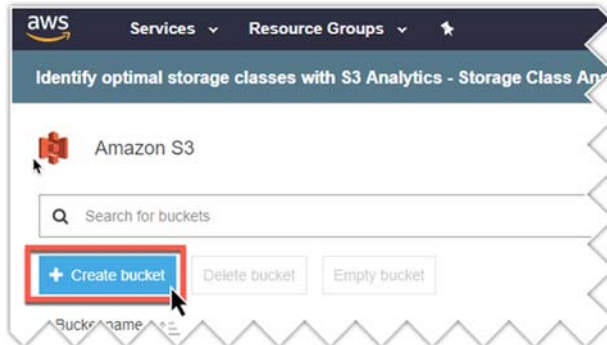
Optional: you could enter the command "aws sts get-session-token" to confirm that your installation of Python and AWS CLI is working properly.

Step 3: Create an S3 Bucket

1. From the AWS Console, search for **S3 Scalable Storage in the Cloud** and open.



2. Click the **Create Bucket** button.

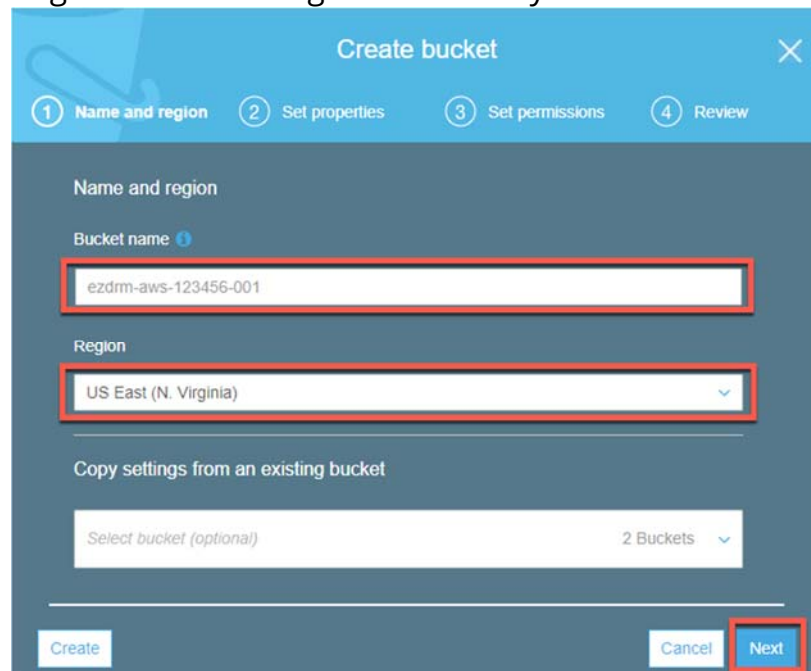


3. Enter the following parameters and click **Next**:

- Bucket name: Bucket name can be any format you prefer. We recommend that you use a naming convention that is unique and reusable.

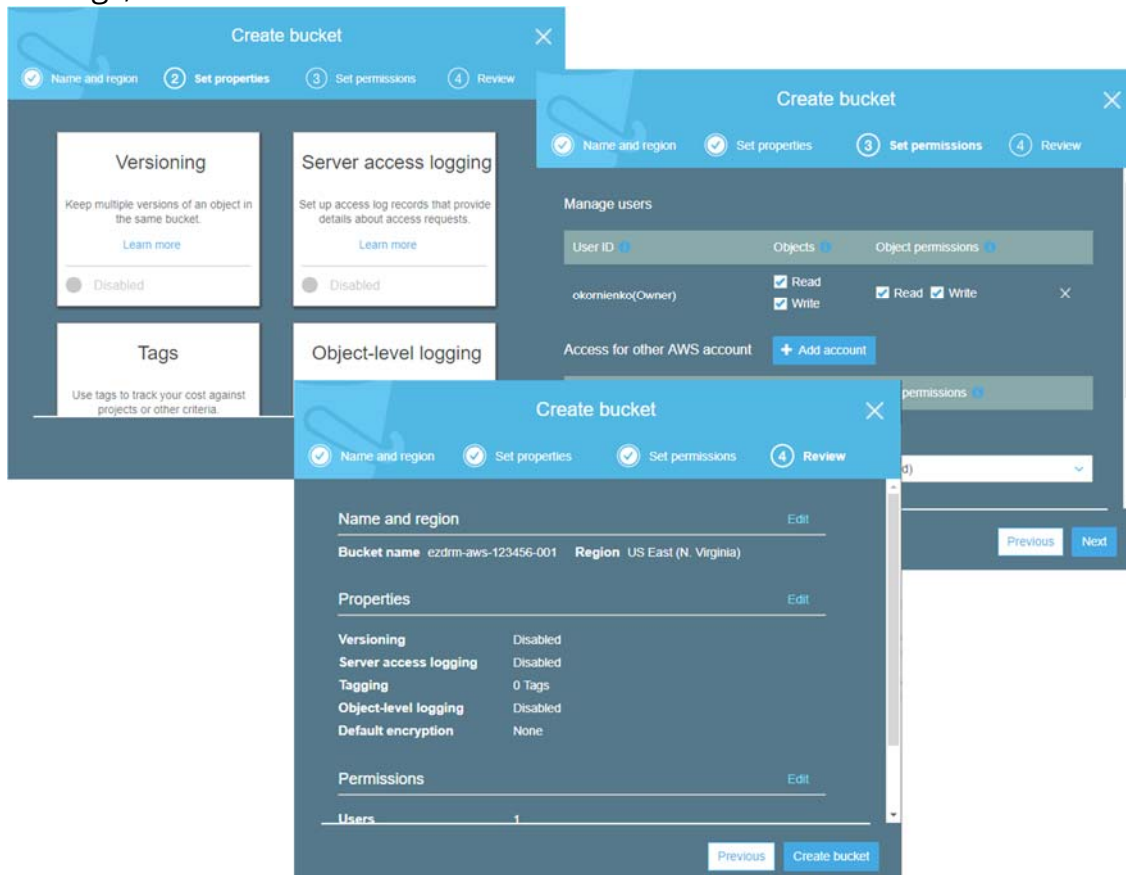
Note: The bucket name must be ^{[[SEP]]}unique across all existing ^{[[SEP]]}bucket names in Amazon S3.

- Region: enter the region closest to you.



The screenshot shows the 'Create bucket' wizard in the AWS console. The wizard has four steps: 1. Name and region, 2. Set properties, 3. Set permissions, and 4. Review. The first step, 'Name and region', is currently active. It contains the following fields: 'Bucket name' (with a red box around the input 'ezdrm-aws-123456-001'), 'Region' (with a red box around the dropdown menu showing 'US East (N. Virginia)'), and 'Copy settings from an existing bucket' (with a dropdown menu showing 'Select bucket (optional)' and '2 Buckets'). At the bottom, there are three buttons: 'Create', 'Cancel', and 'Next' (highlighted with a red box).

- Click the **Next** button through the next three screens keeping all the default settings, then click the **Create Bucket** button.



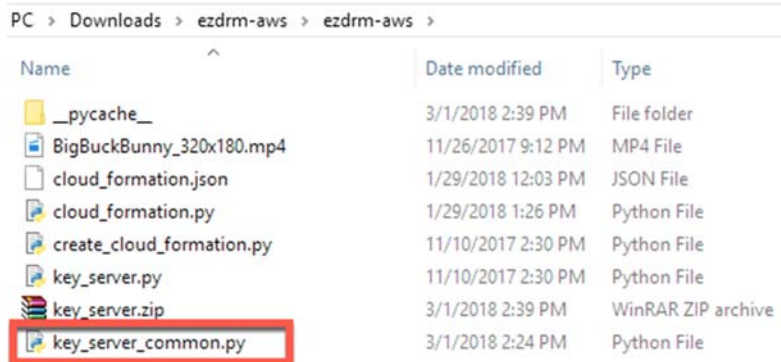
Step 4: Edit the Key Server files

To edit the Key server files:

- Download the EZDRM AWS zip file through a browser using this link:
<http://www.ezdrm.com/downloads/ezdrm-aws.zip>
- Extract the **ezdrm-aws.zip** file and open the **ezdrm-aws** folder.



3. Right-click to edit the **key_server_common.py** file.



4. Edit Line 70 with your EZDRM username and password and save the file.
The parameters are as follows:

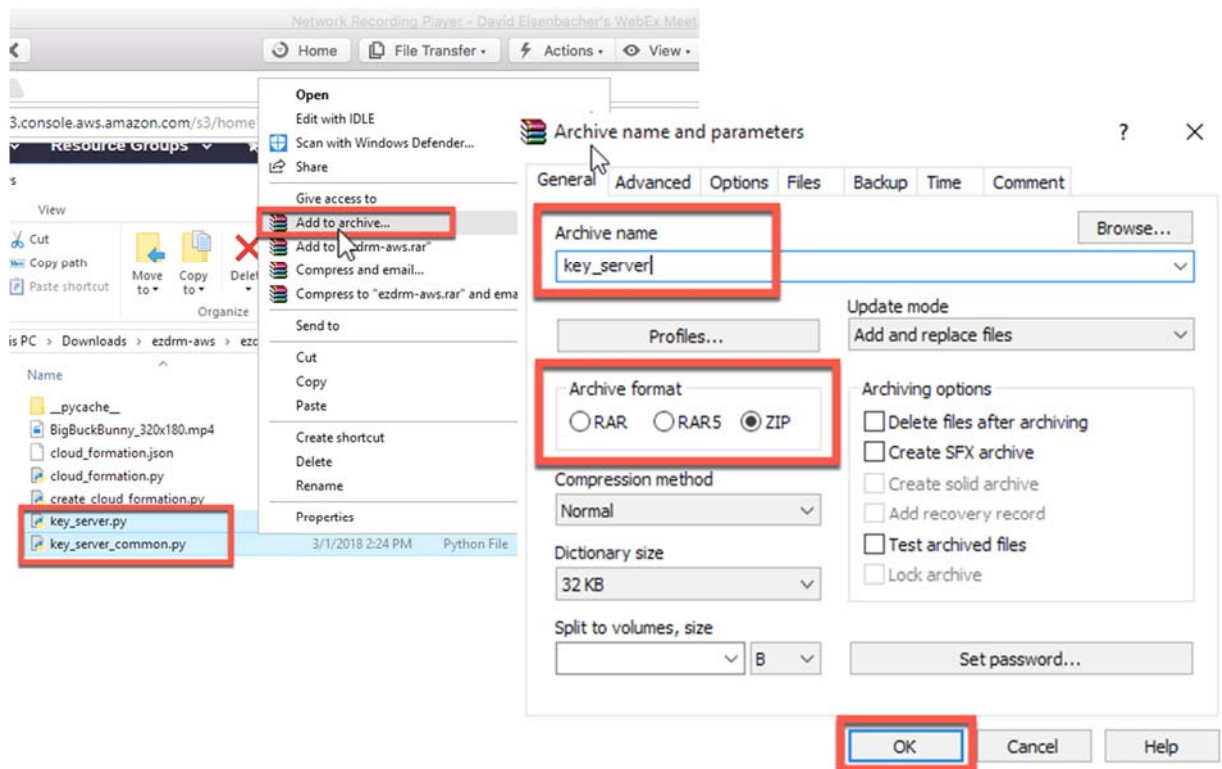
Parameter	Description
u	EZDRM username
p	EZDRM password

```

data = ET.SubElement(content_key, "{urn:dashif:org:cpix}Data")
secret = ET.SubElement(data, "{urn:ietf:params:xml:ns:keyprov:pskc}Secret")
plain_value = ET.SubElement(secret, "{urn:ietf:params:xml:ns:keyprov:pskc}PlainValue")
if use_playready_content_key:
    plain_value.text = PLAYREADY_CONTENT_KEY
else:
    plain_value.text = base64.b64encode(get_digest(KEY_STRING, content_id, kid)).decode('utf-8')
    #if iv is None and system_ids.get(HLS_SAMPLE_AES_SYSTEM_ID, False) == kid:
    content_key.set('explicitIV', base64.b64encode(get_digest(KEY_STRING, content_id, kid)).decode('utf-8'))
with urllib.request.urlopen('http://cpix.ezdrm.com/aws.aspx?k=' + kid + '&u=yourEZDRMusername&p=yourEZDRMpassword' + content_id) as
    html = response.read()
    EM.register_namespace("cpix", "urn:dashif:org:cpix")
    EM.register_namespace("pskc", "urn:ietf:params:xml:ns:keyprov:pskc")
    self.moot = EM.fromstring(html)
if get_response(self):

```

5. After editing the **key_server_common.py** file, combine it with **key_server.py** in a zip file called **key_server.zip**.



Step 5: Create Speke Server

To create the Speke Server, open Command Prompt.

1. Navigate to the extract directory for ezdrm-aws.zip in command prompt.

For example:

```
c:\Users\User\Downloads\ezdrm-aws\ezdrm-aws
```

2. Run the following python command **python create_cloud_formation.py** <<insert S3 bucket name from Step 3 here>>.

```
c:\Users\User\Downloads\ezdrm-aws\ezdrm-aws> python create_cloud_formation.py ezdrm-aws-123456-001
deleting key server from s3
finished deleting key server from s3
deleting stack EzDRM-Server
finished deleting stack EzDRM-Server
copying key server to s3
finished copying key server to s3
creating stack EzDRM-Server
finished creating stack EzDRM-Server
setting binary media types
finished setting binary media types
redploying
finished redeploying
```

For example:

```
c:\Users\User\Downloads\ezdrm-aws\ezdrm-aws> python create_cloud_formation.py
ezdrm-aws-123456-001
```

NOTE: The boto3 library needs to be installed for this to work. To install, run the command: **pip install --upgrade --user boto3**.

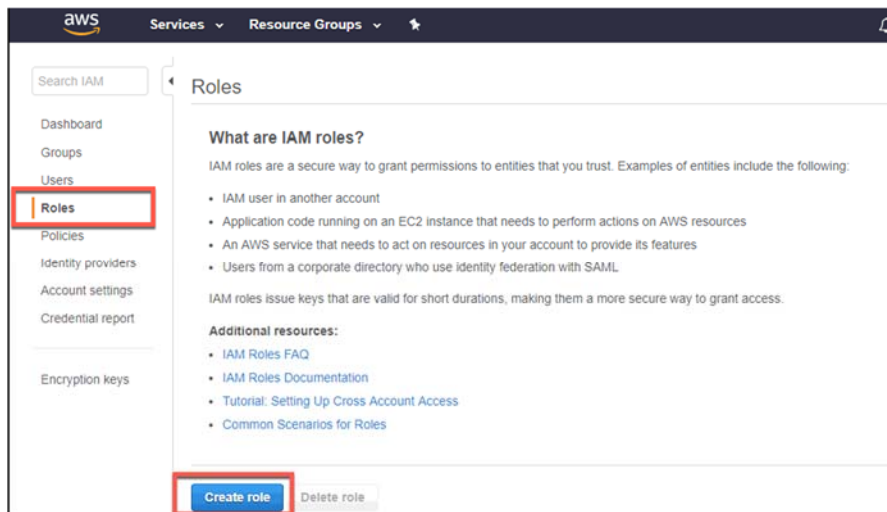
```
c:\Users\User\Downloads\ezdrm-aws\ezdrm-aws> pip install --upgrade --user boto3
```

Step 6: Add Role for Media Convert

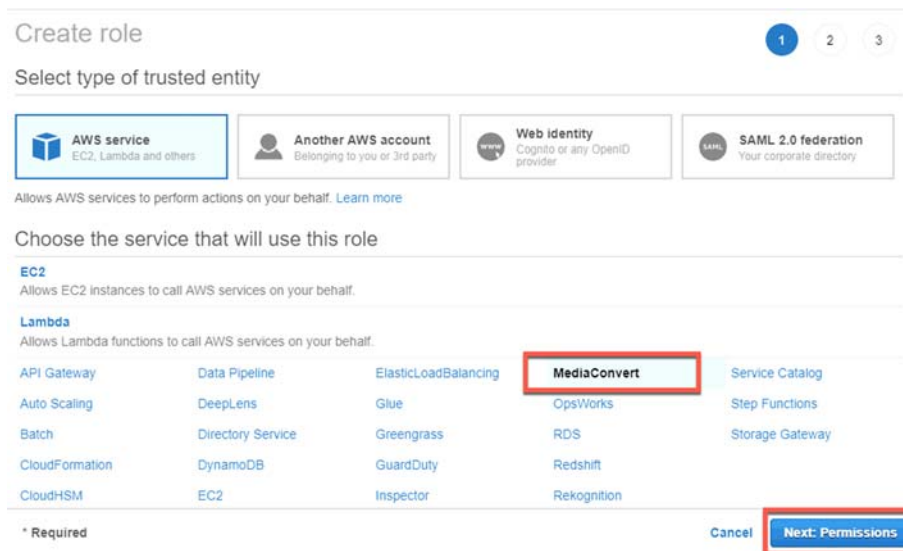
This gives the user the ability to access the Media Convert component of AWS.

To create a new Role in AWS complete the following steps:

1. Launch the AWS IAM console by searching for IAM.
2. Select **Roles** menu and click the **Create role** button.



- Under AWS services, select the **MediaConvert** service and click the **Next: Permissions** button.



- Keep the default attached permission policies **AmazonAPIGatewayInvokeFullAccess** (provides full access to invoke APIs in Amazon API Gateway) and **AmazonS3FullAccess** (provides full access to all buckets via the AWS Management Console). Click the **Next: Review** button.

Create role

1 2 3

Attached permissions policy

The type of role that you selected requires the following policy.

Filter: Policy type Search			Showing 2 results
Policy name	Attachments	Description	
AmazonAPIGatewayInvokeFullAccess	1	Provides full access to invoke APIs in Amazon API Gateway.	
AmazonS3FullAccess	1	Provides full access to all buckets via the AWS Management Cons...	

* Required

Cancel

Previous

Next: Review

- On the review screen, enter the Role Name: **EZDRM**. Then click the **Create role** button.

Create role

1 2 3

Review

Provide the required information below and review this role before you create it.

Role name*

EZDRM

Use alphanumeric and '+', '@', '-' characters. Maximum 64 characters.

Role description

Allows MediaConvert service to call S3 APIs and API Gateway on your behalf.

Maximum 1000 characters. Use alphanumeric and '+', '@', '-' characters.

Trusted entities AWS service: mediaconvert.amazonaws.com

Policies

AmazonS3FullAccess

AmazonAPIGatewayInvokeFullAccess

* Required

Cancel

Previous

Create role

- The new role will now be displayed in the roles list.

 Services ▾ Resource Groups ▾ ⌵

⌵ AWS-EZDRM-Dev ▾

Search IAM

Create role

Delete role

Dashboard

Groups

Users

Roles

Policies

Identity providers

Account settings

Credential report

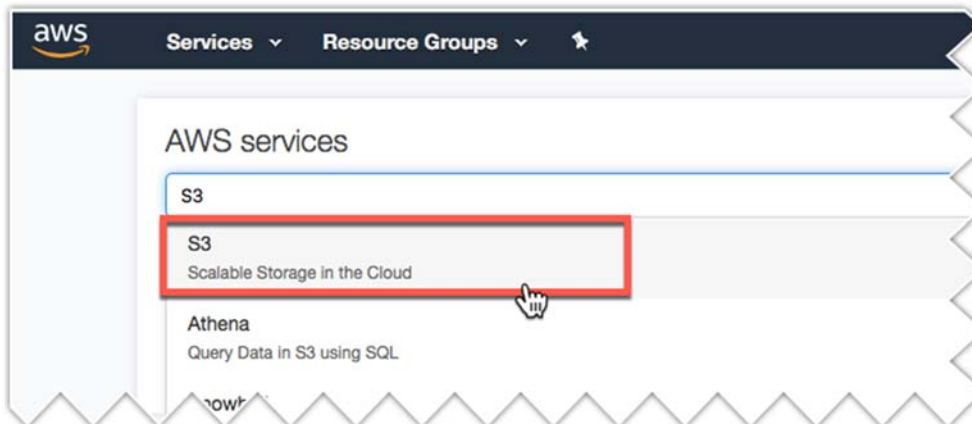
Search

Role name ▾	Description	Trusted entities
☒ EZDRM	Allows MediaConvert service to call S3 APIs and API Gateway on yo...	AWS service: mediaconvert
☐ EzDRM-Server-APIGatewayClou...		AWS service: apigateway
☐ EzDRM-Server-LambdaExecutio...		AWS service: lambda

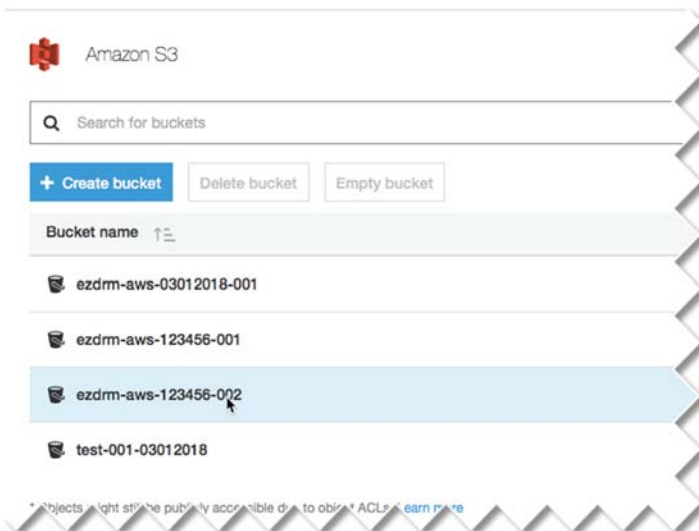
Creating an AWS MediaConvert Job

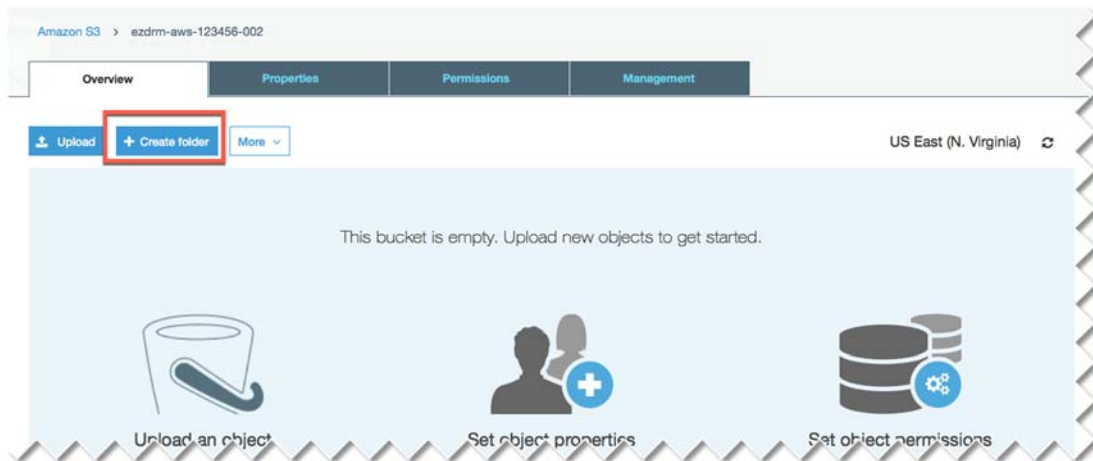
Widevine and PlayReady

1. Launch the AWS S3 console by searching for S3.

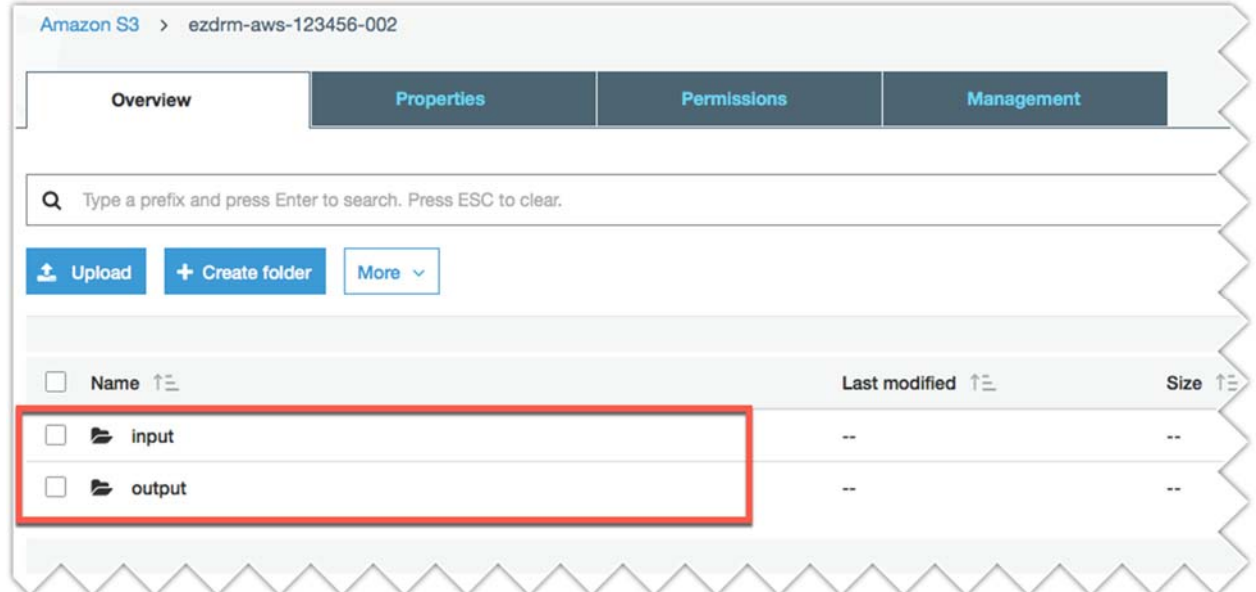


2. Create a new bucket or use an existing bucket. For instructions on creating a new S3 bucket, see [this section](#).
3. Select the bucket and click the +Create folder button.

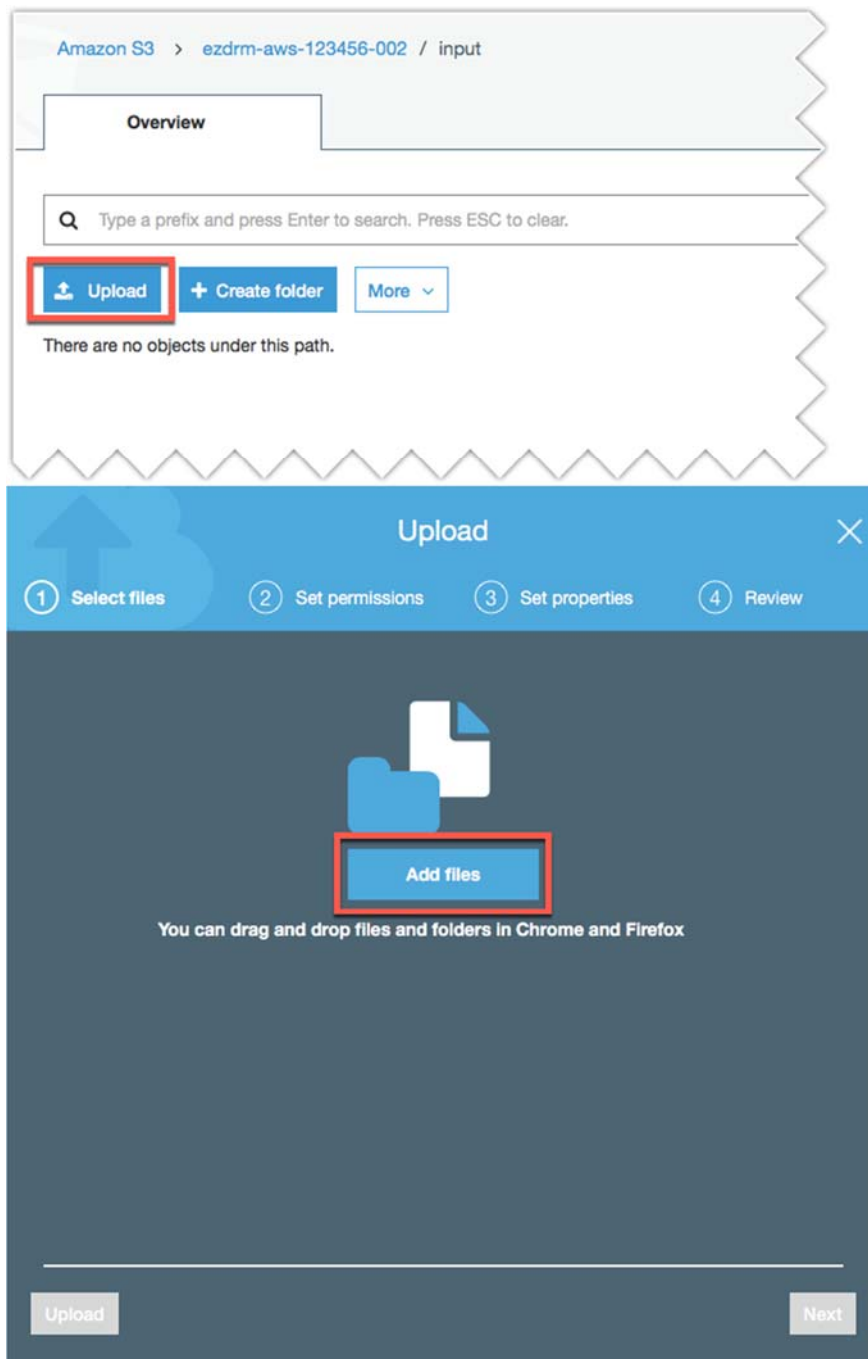




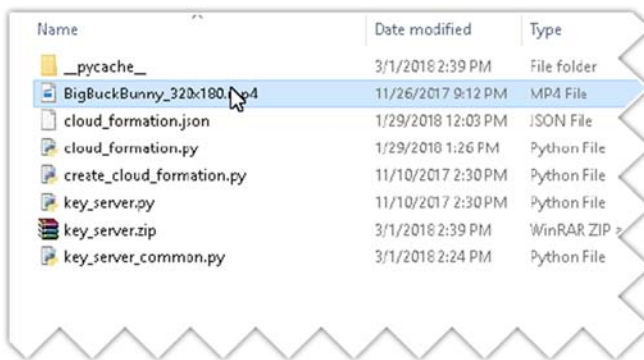
4. Create two folders, one named **input** and one named **output**.



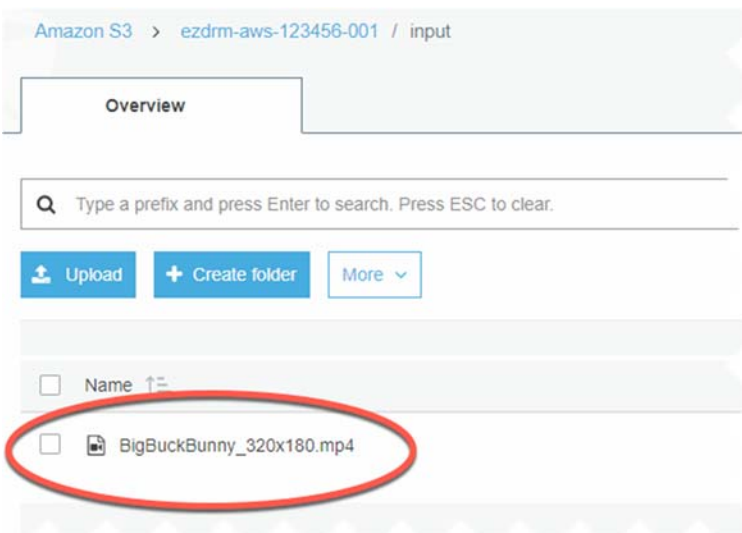
5. Select the **input** folder and click the **Upload** button. Then select the **Add Files**.



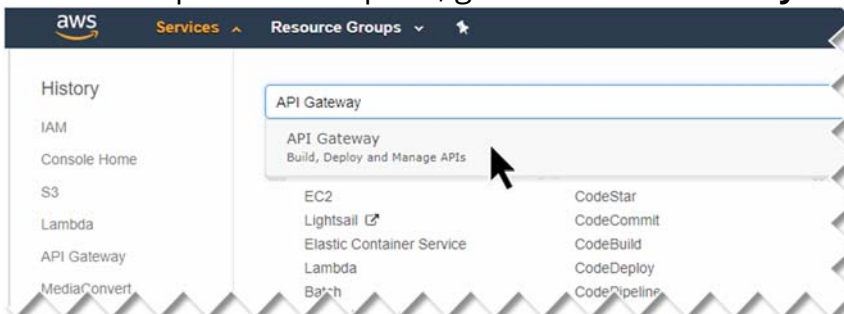
6. Select the **BigBuckBunny_320x180.mp4** file from the ezdrm-aws folder.



- Click through to keep the default settings and click **Upload**. The file will now show in the input folder.

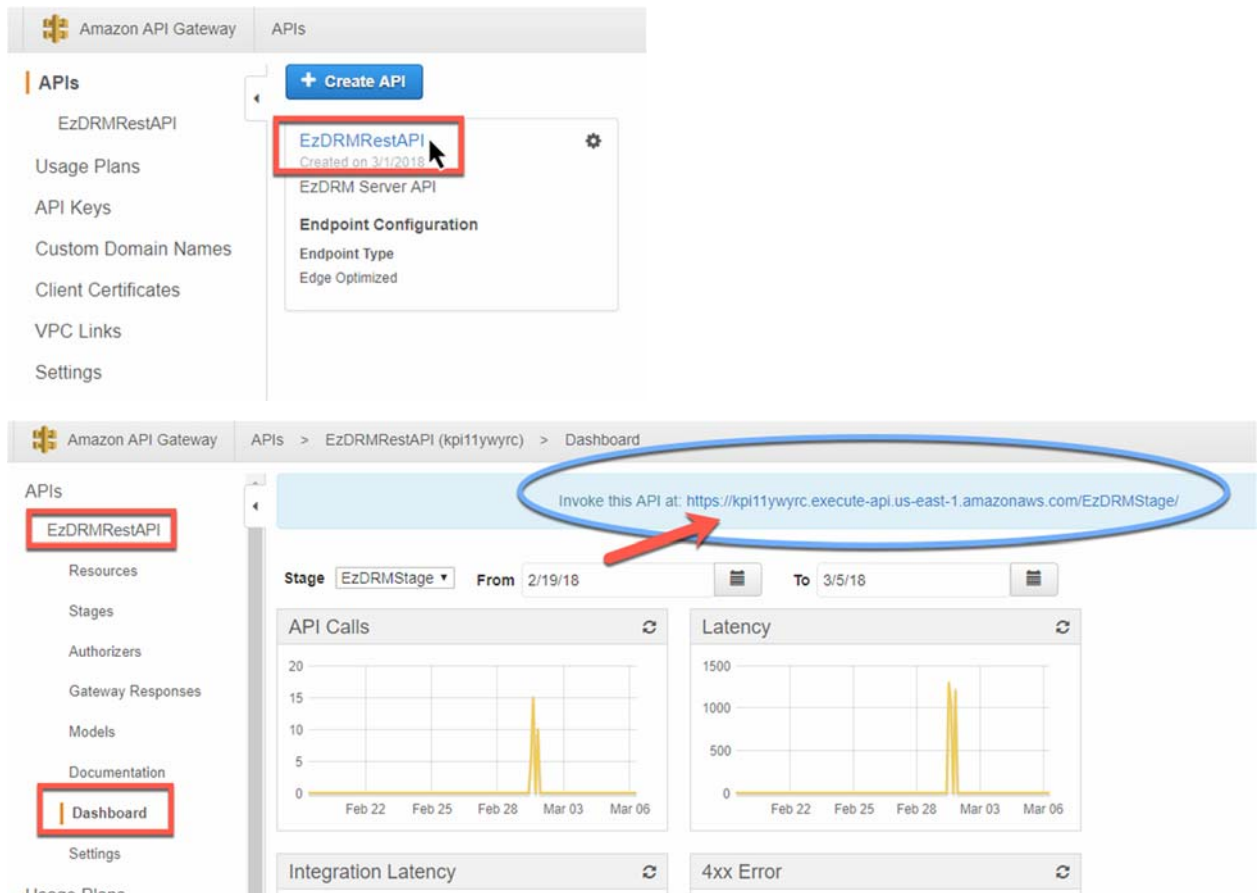


- When the upload is complete, go to the **API Gateway**.

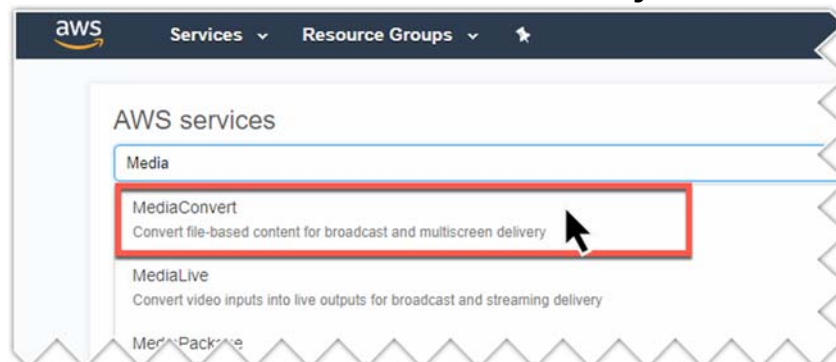


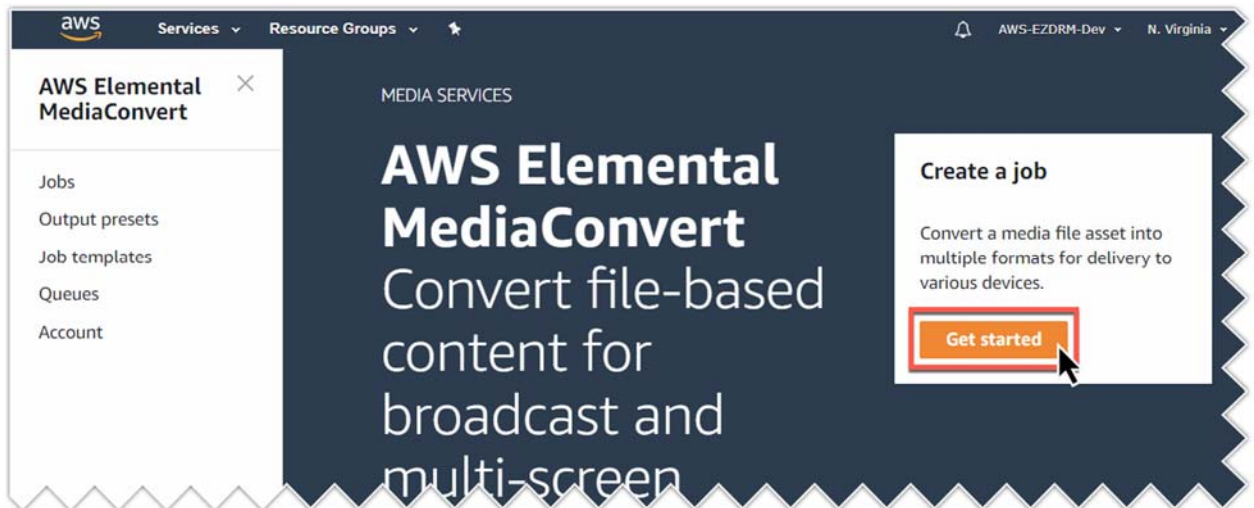
- Click on the **EzDRMRestAPI** link (this was created with the earlier python script) and then select the **Dashboard** menu. You will copy the API URL at the

top of the **Dashboard** page labeled “Invoke this API”. Paste this URL in a notepad for editing.

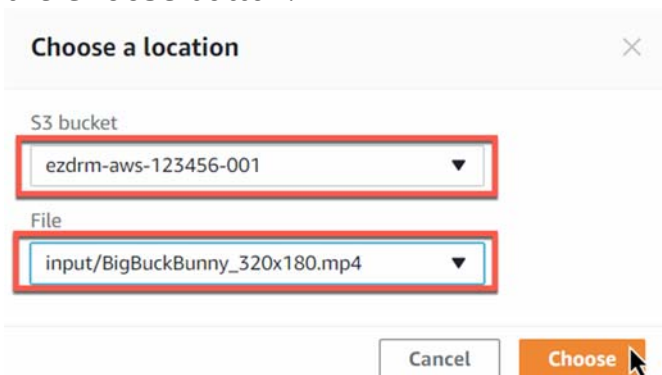


10. Go to **MediaConvert** and under **Create a job**, click **Get Started**.

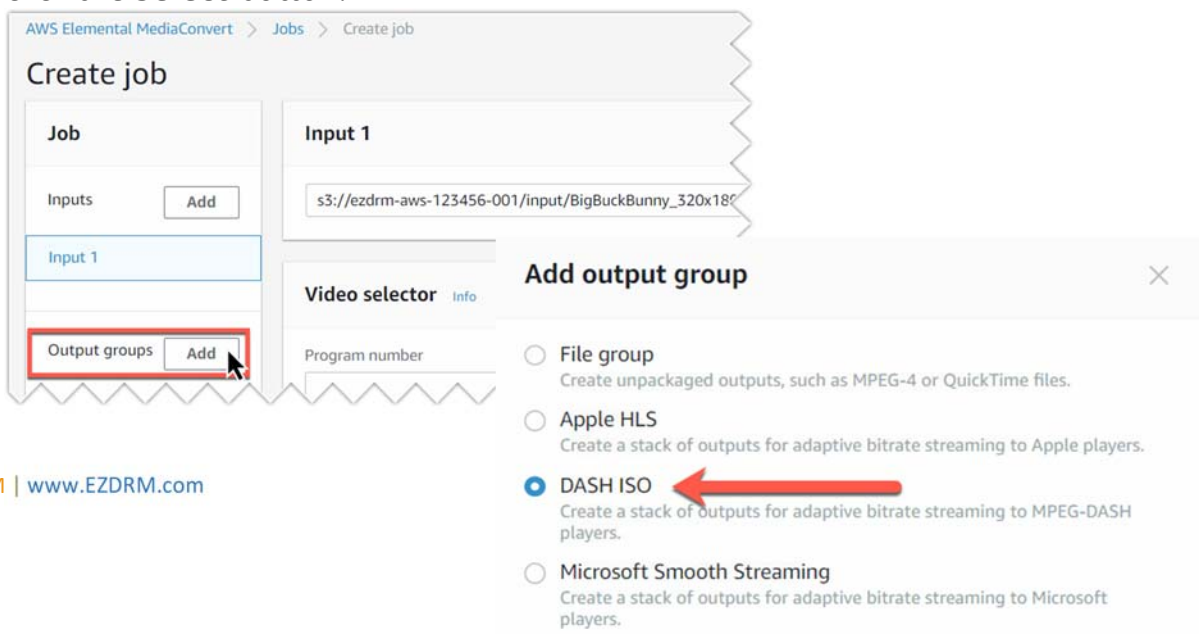




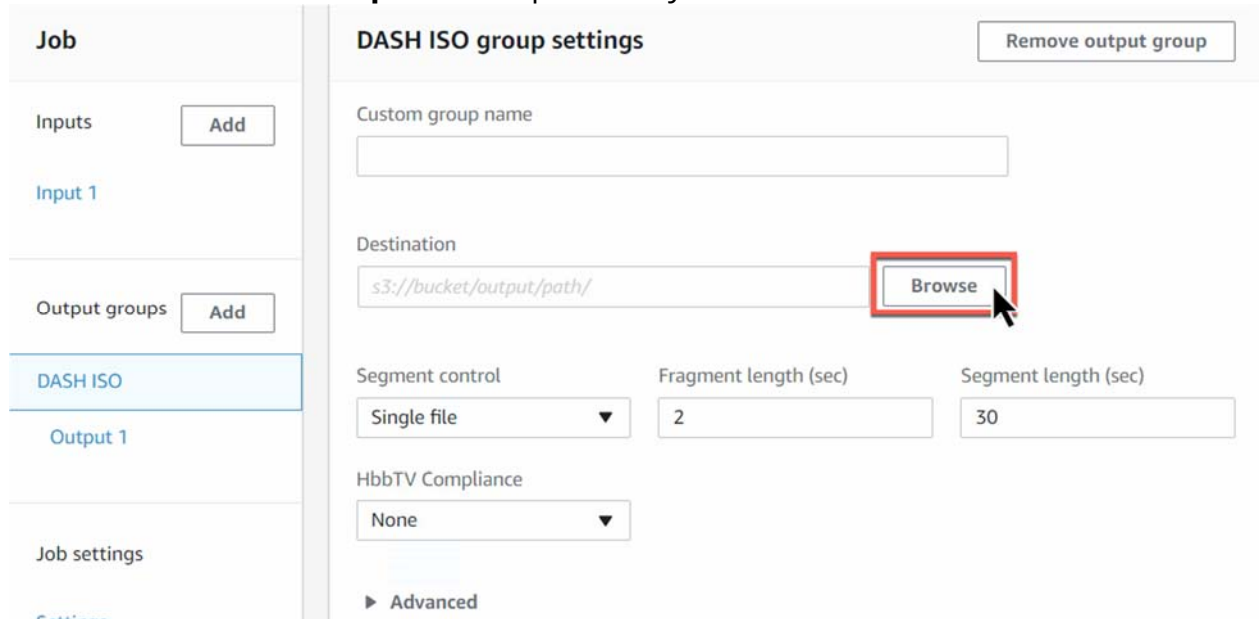
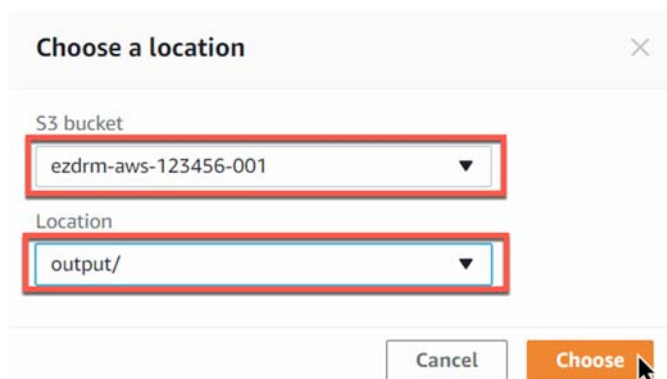
11. For **Input 1** click browse to select the input file, for this example select the **S3 Bucket** named **ezdrm-aws-123456-001** and the **BigBuckBunny_320x180.mp4** file in the **input** folder previously created. Click the **Choose** button.



12. Next click the **Add** for **Output groups**. For this example, select **DASH ISO** and click the **Select** button.



13. The DASH ISO group settings will open. The **Custom Group Name** is optional. Under **Destination** click to **Browse** to the **S3 Bucket** named **ezdrm-aws-123456-001** and the **output** folder previously created.

14. Under **Segment Control** select **Segmented Files** and change the **Fragment Length (sec)** to **6** seconds.

DASH ISO group settings
Remove output group

Custom group name

Destination

Browse

Segment control

Segmented files ▼

Single file

Segmented files

Fragment length (sec)

Segment length (sec)

15. Scroll down and select the toggle for **DRM Encryption**.

The parameters are as follows:

- **ResourceID**: this will be the ID that references your DRM Keys. This is a required field.

Note: The first time you send a ResourceID to run a job, the ID will be tied to the DRM keys for that job. Jobs can use the same ResourceID to reference the same keys or for new DRM Keys send a new ResourceID. It is best not to use a ResourceID from a failed job.

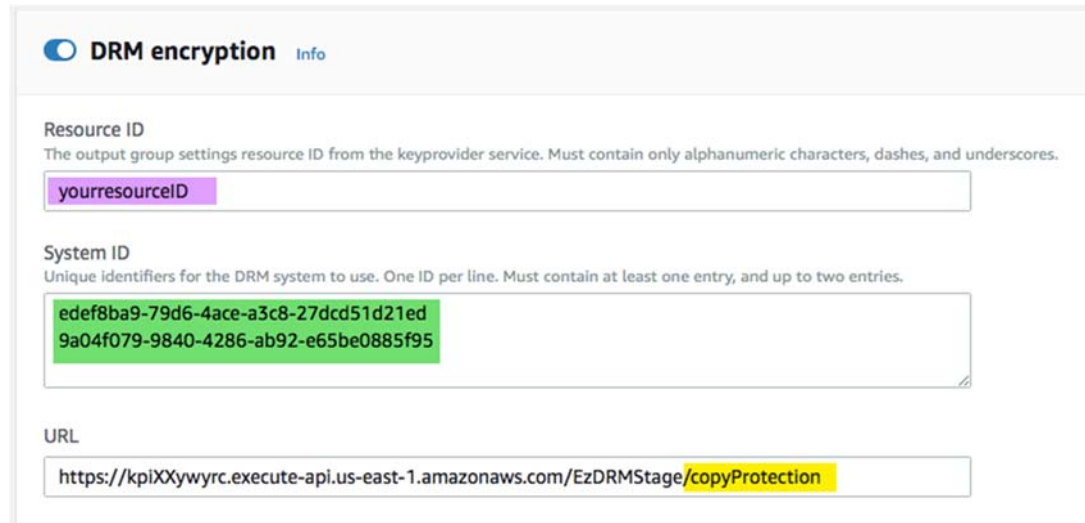
- **System ID**: Unique identifiers for the DRM system to use. Insert the System ID's for Widevine and PlayReady, one ID per line:
(Widevine) **edef8ba9-79d6-4ace-a3c8-27dcd51d21ed**
(PlayReady) **9a04f079-9840-4286-ab92-e65be0885f95**

Note: The System ID values need to be lowercase.

- **URL**: The URL is the **API URL** copied from **Step 9** above, except at to the end of the URL add **"/copyProtection"**. (This is case sensitive, be sure **capitalize the P** in Protection.)

Sample URL:

<https://kpiXXywyrc.execute-api.us-east-1.amazonaws.com/EzDRMStage/copyProtection>



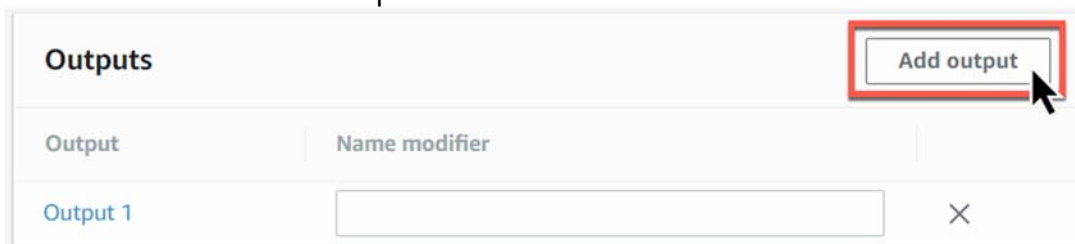
DRM encryption Info

Resource ID
The output group settings resource ID from the keyprovider service. Must contain only alphanumeric characters, dashes, and underscores.

System ID
Unique identifiers for the DRM system to use. One ID per line. Must contain at least one entry, and up to two entries.

URL

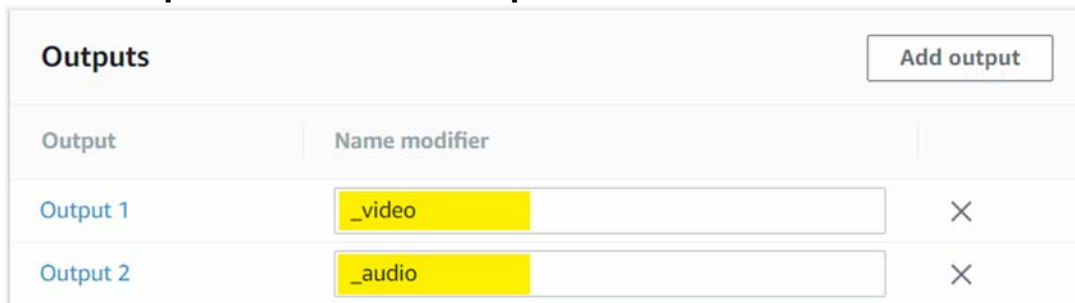
16. Scroll down to the next section called **Outputs**. Click the **Add output** button so that there are two outputs.



Outputs Add output

Output	Name modifier	
Output 1		×

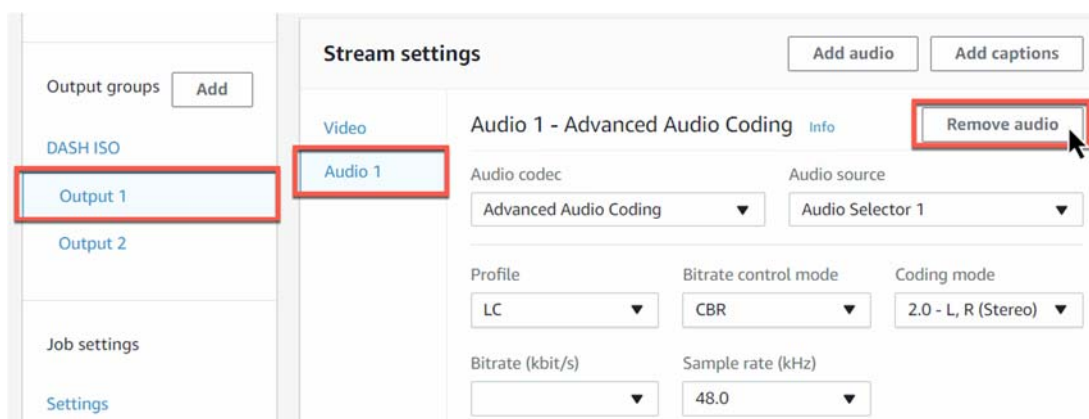
17. Name **Output 1** “_video” and **Output 2** “_audio”.



Outputs Add output

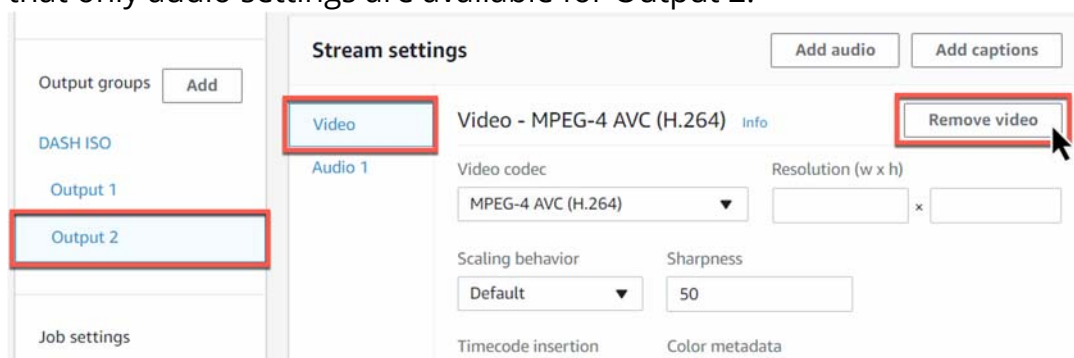
Output	Name modifier	
Output 1	_video	×
Output 2	_audio	×

18. Go back up to the top of the screen to change the Output settings for newly created **Output 1** and **Output 2**. Select **Output 1** and then click on **Audio 1**. Click the **Remove audio** button so that only video settings are available for Output 1.



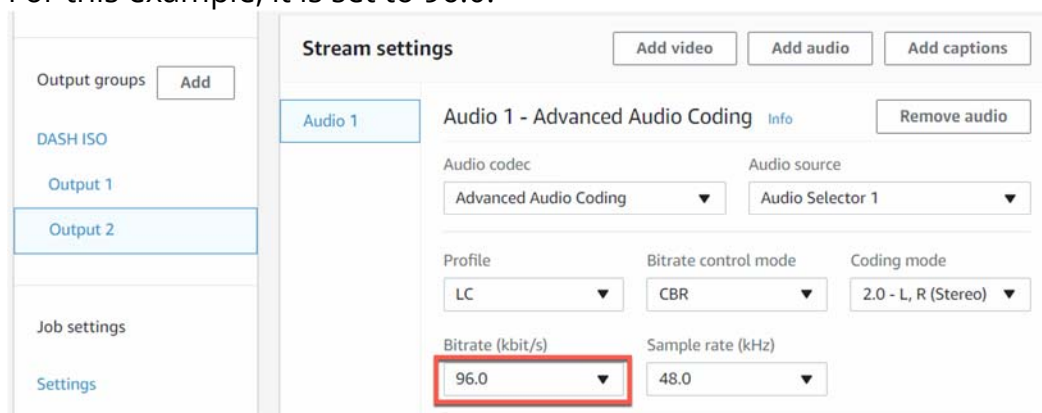
The screenshot shows the 'Stream settings' interface. On the left sidebar, 'Output groups' contains 'DASH ISO' with 'Output 1' and 'Output 2' listed below it. 'Output 1' is highlighted with a red box. Under 'Job settings', 'Settings' is also highlighted with a red box. The main panel is titled 'Stream settings' and has tabs for 'Video' and 'Audio 1'. The 'Audio 1' tab is selected and highlighted with a red box. The settings for 'Audio 1 - Advanced Audio Coding' are displayed, including 'Audio codec' (Advanced Audio Coding), 'Audio source' (Audio Selector 1), 'Profile' (LC), 'Bitrate control mode' (CBR), 'Coding mode' (2.0 - L, R (Stereo)), 'Bitrate (kbit/s)' (empty), and 'Sample rate (kHz)' (48.0). A 'Remove audio' button is highlighted with a red box and a mouse cursor.

19. Select **Output 2** and then click on **Video 1**. Click the **Remove video** button so that only audio settings are available for Output 2.



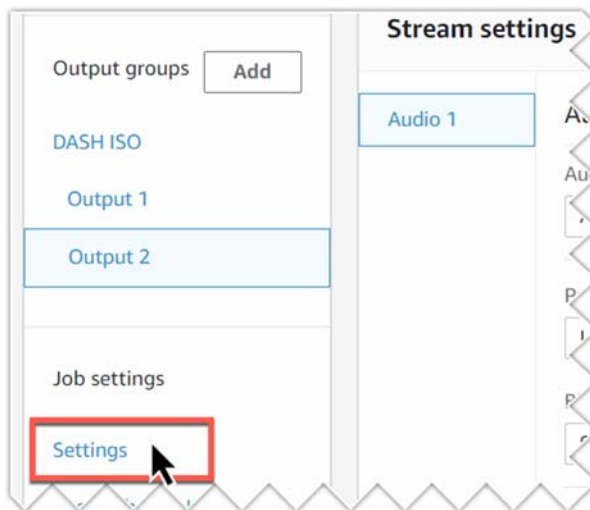
The screenshot shows the 'Stream settings' interface. On the left sidebar, 'Output 2' is highlighted with a red box. The main panel is titled 'Stream settings' and has tabs for 'Video' and 'Audio 1'. The 'Video' tab is selected and highlighted with a red box. The settings for 'Video - MPEG-4 AVC (H.264)' are displayed, including 'Video codec' (MPEG-4 AVC (H.264)), 'Resolution (w x h)' (empty), 'Scaling behavior' (Default), 'Sharpness' (50), 'Timecode insertion', and 'Color metadata'. A 'Remove video' button is highlighted with a red box and a mouse cursor.

20. For **Output 2** under **Audio 1**, be sure to set the appropriate **Bitrate (kbit/s)**. For this example, it is set to 96.0.

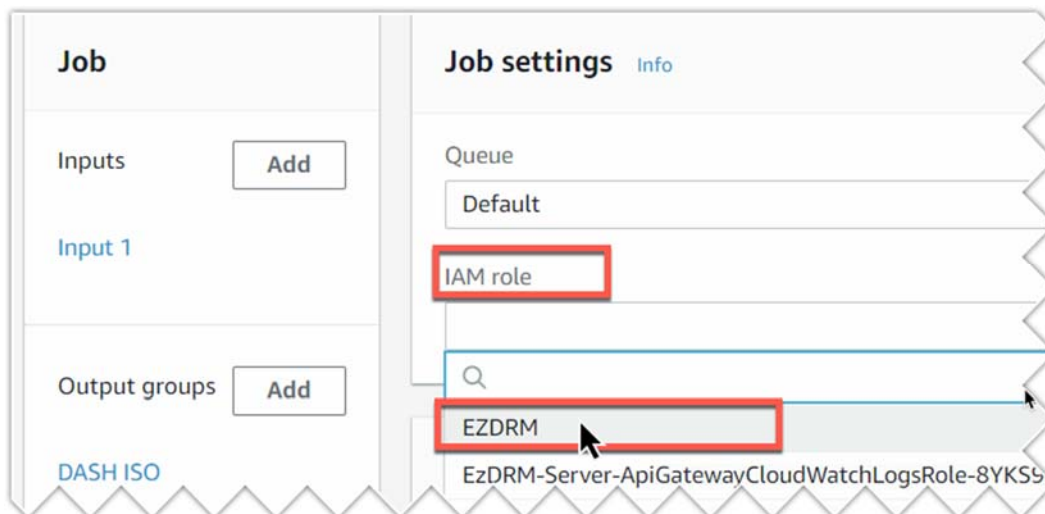


The screenshot shows the 'Stream settings' interface. On the left sidebar, 'Output 2' is highlighted with a red box. The main panel is titled 'Stream settings' and has tabs for 'Video' and 'Audio 1'. The 'Audio 1' tab is selected and highlighted with a red box. The settings for 'Audio 1 - Advanced Audio Coding' are displayed, including 'Audio codec' (Advanced Audio Coding), 'Audio source' (Audio Selector 1), 'Profile' (LC), 'Bitrate control mode' (CBR), 'Coding mode' (2.0 - L, R (Stereo)), 'Bitrate (kbit/s)' (96.0, highlighted with a red box), and 'Sample rate (kHz)' (48.0). A 'Remove audio' button is visible in the top right corner.

21. Next select **Settings** under **Job settings**.



22. Select the **EZDRM** role under **IAM role**.



23. Once all of the settings are complete, scroll to the bottom of the page and click the **Create** button to create the job.

Nielsen configuration [Info](#)

Distributor ID

Breakout code

Global processors

☐ Ad avail blanking [Info](#)

☐ Timed metadata insertion [Info](#)

[Cancel](#)
[Create](#)

24. The job will show Submitted and then if you click the **Refresh** button, you will see the job listed as Complete.

[AWS Elemental MediaConvert](#) > [Jobs](#) > Job summary

Job summary

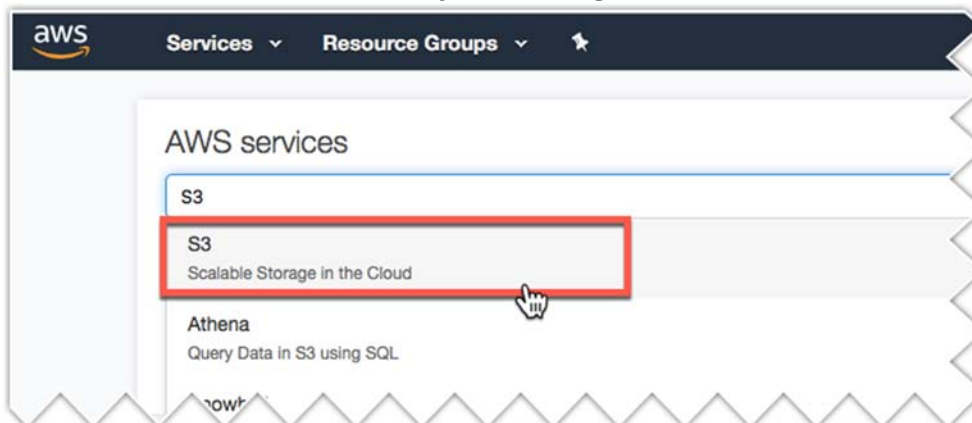
[Refresh](#)
[Details](#)
[Duplicate](#)
[View JSON](#)

Overview

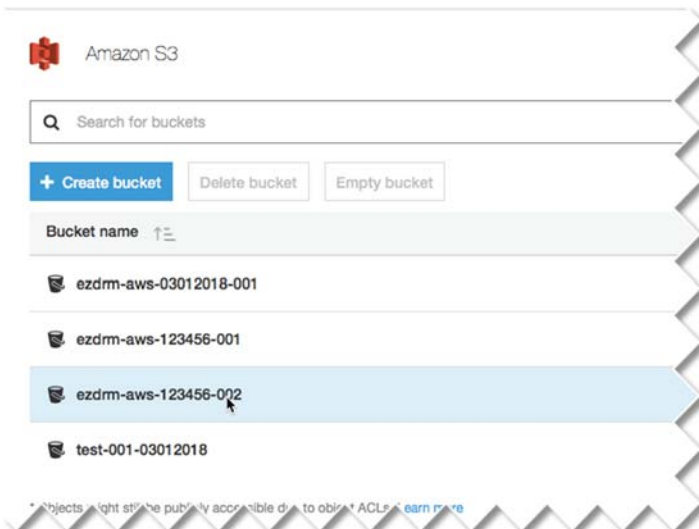
Status	Queue	Job ID
COMPLETE	Default	1519959472587-miupti
Role	Submit time	Start time
EZDRM	2018-03-01 21:57:52	2018-03-01 21:57:53
Finish time	Duration in queue	Duration in transcoding
2018-03-01 21:58:57	00:00:01	00:01:04

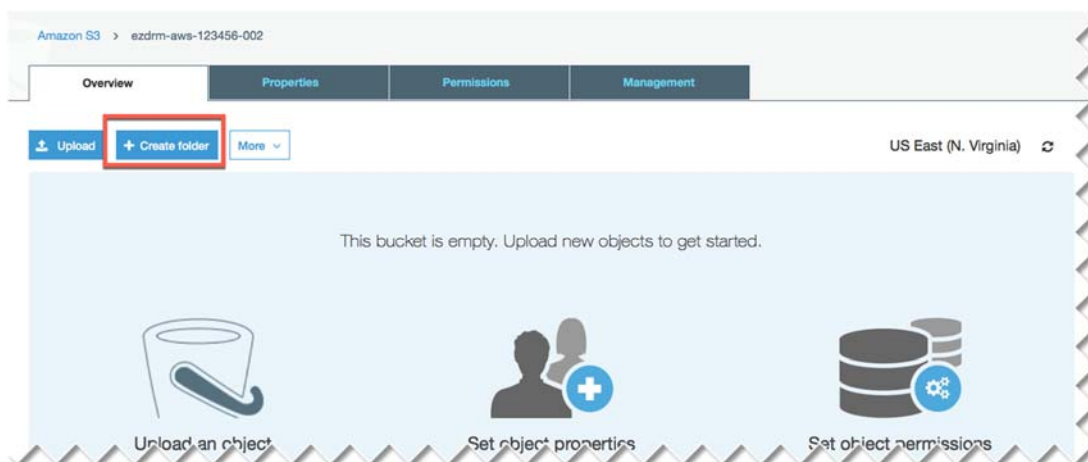
Apple FairPlay Streaming

1. Launch the AWS S3 console by searching for S3.

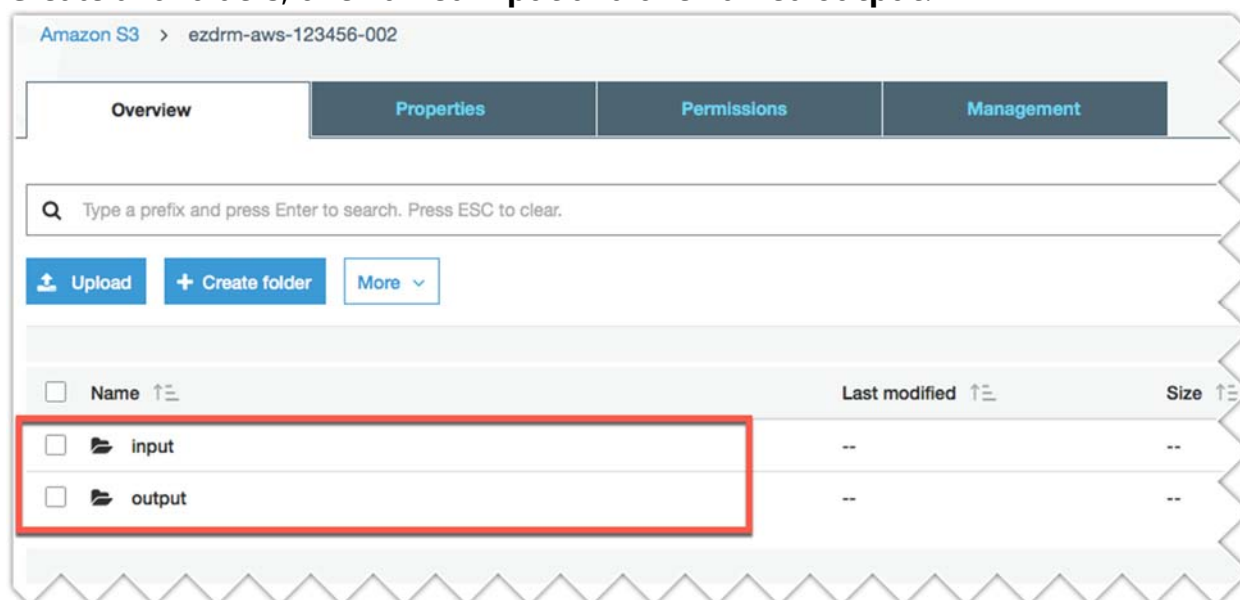


2. Create a new bucket or use an existing bucket. For instructions on creating a new S3 bucket, see [this section](#).
3. Select the bucket and click the **+Create folder** button.

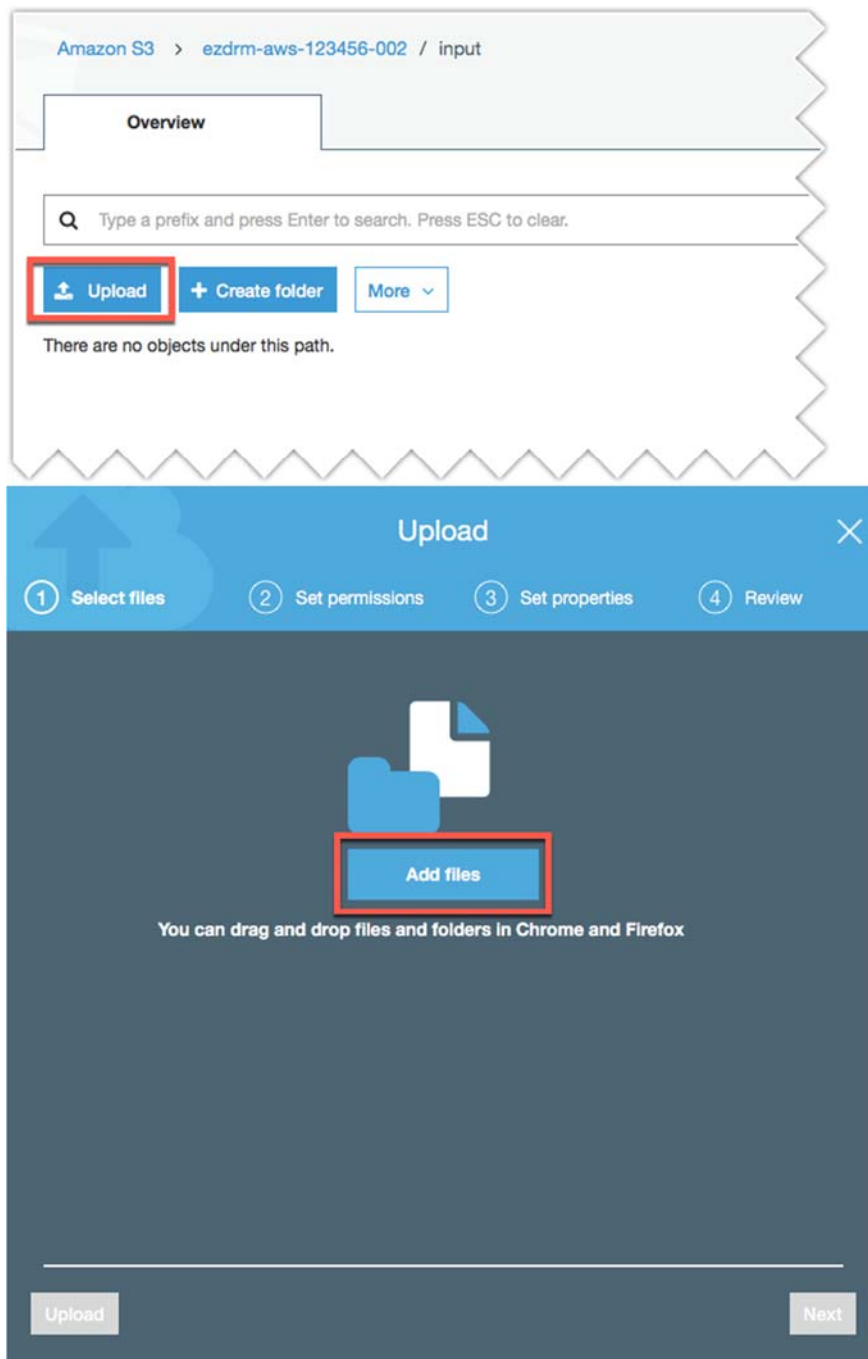




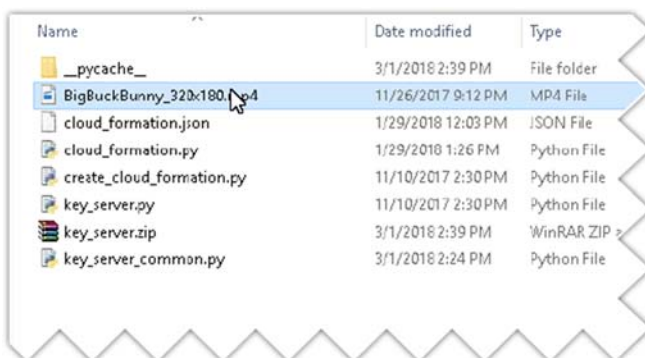
4. Create two folders, one named **input** and one named **output**.



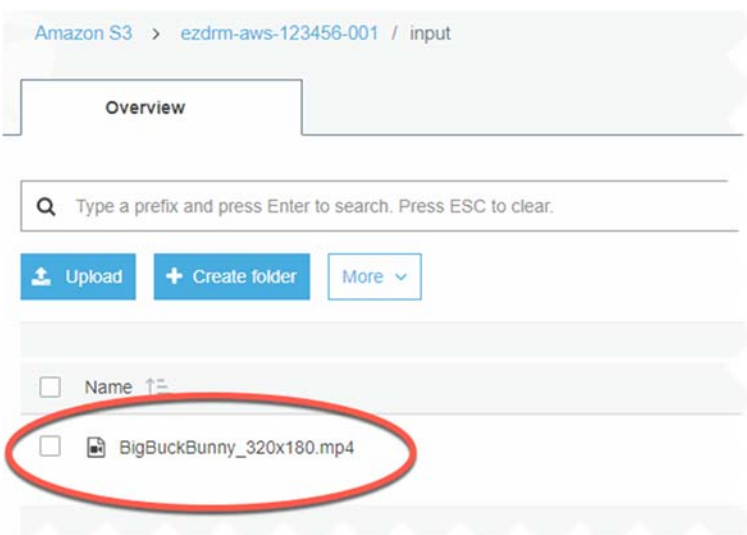
5. Select the **input** folder and click the **Upload** button. Then select the **Add Files**.



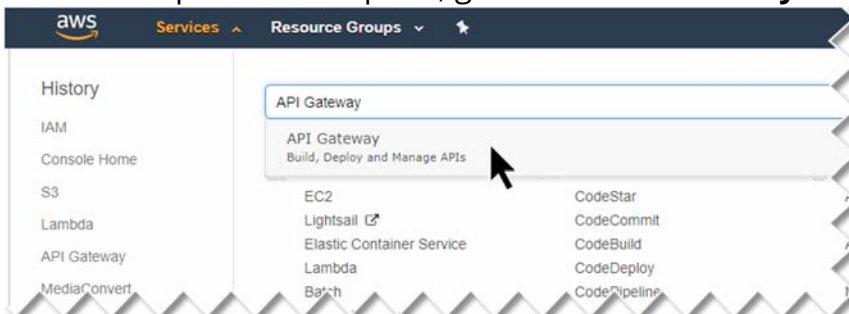
6. Select the **BigBuckBunny_320x180.mp4** file from the ezdrm-aws folder.



- Click through to keep the default settings and click **Upload**. The file will now show in the input folder.

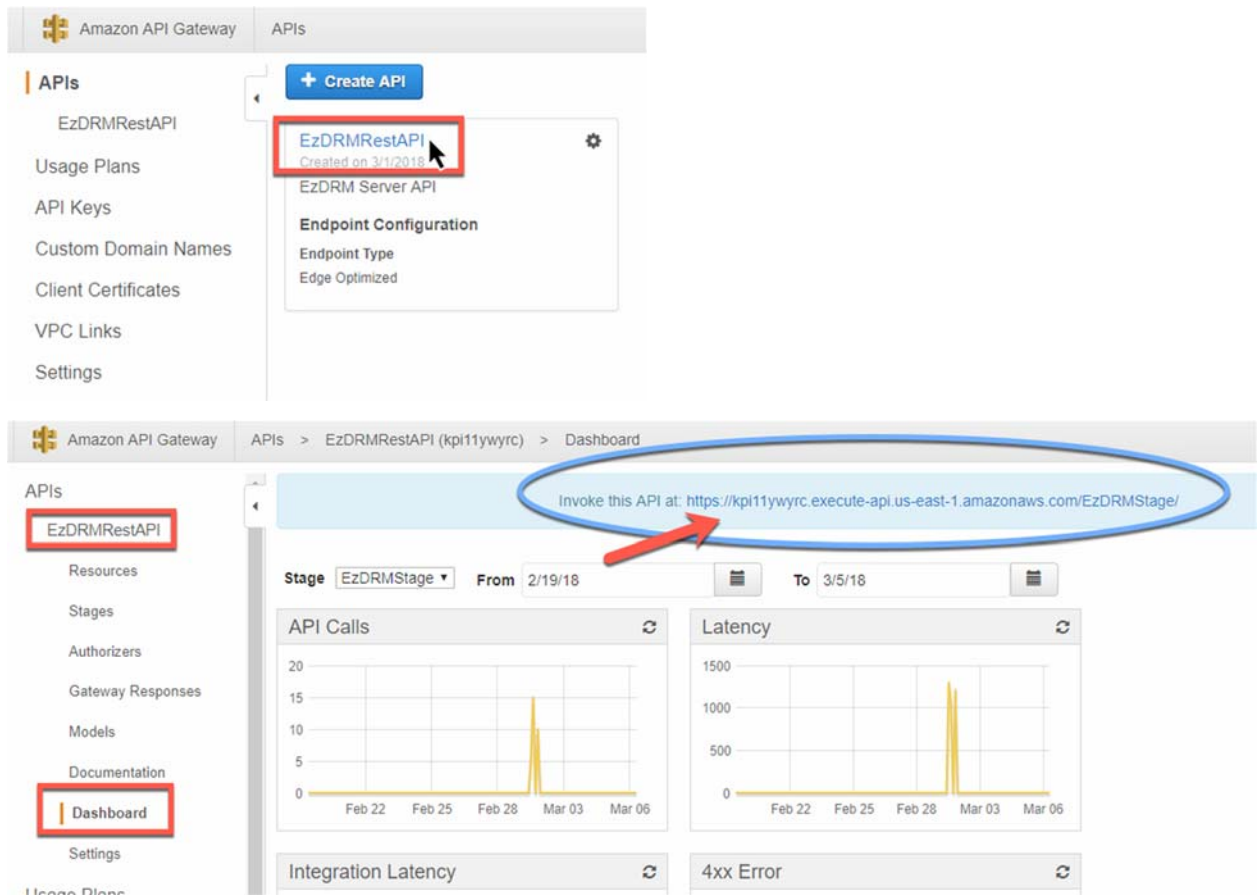


- When the upload is complete, go to the **API Gateway**.

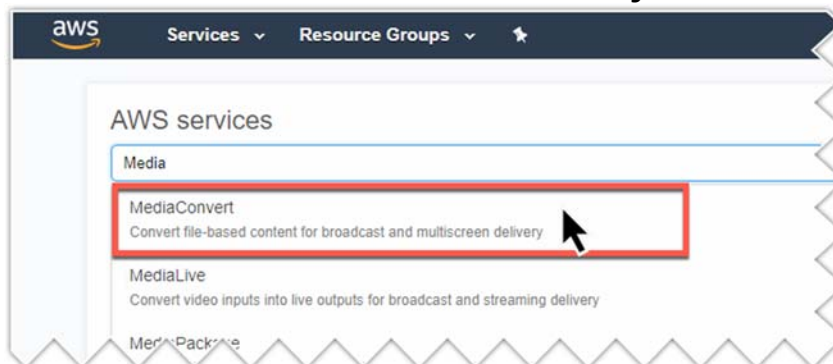


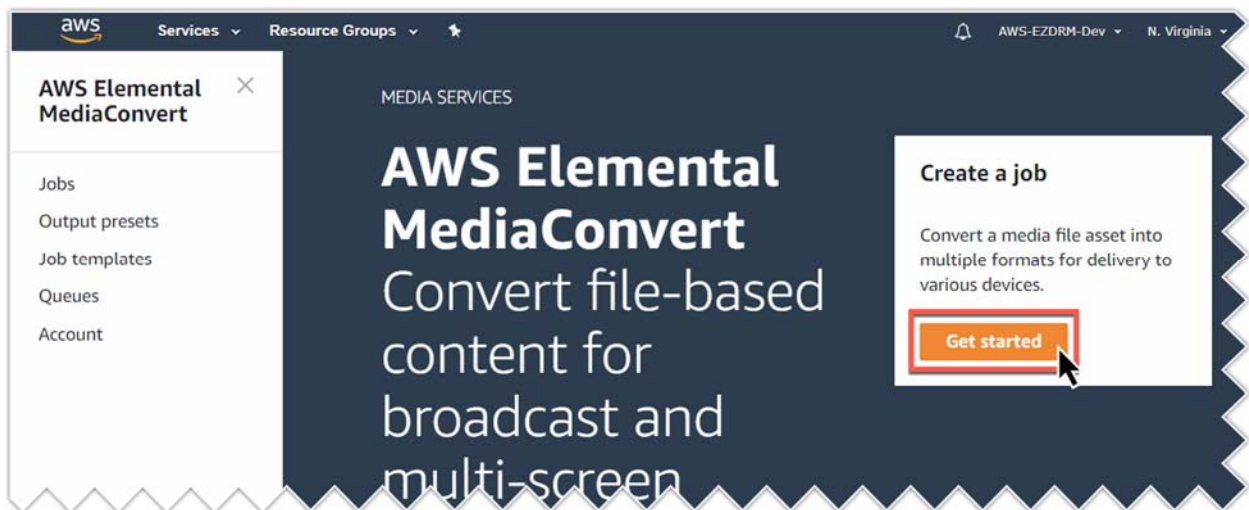
- Click on the **EzDRMRestAPI** link (this was created with the earlier python script) and then select the **Dashboard** menu. You will copy the API URL at the

top of the **Dashboard** page labeled “Invoke this API”. Paste this URL in a notepad for editing.

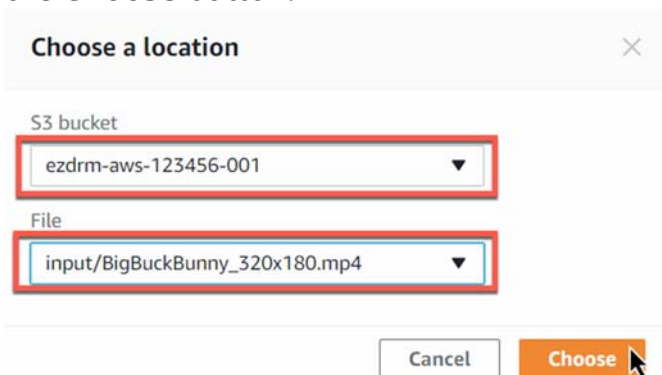


10. Go to **MediaConvert** and under **Create a job**, click **Get Started**.

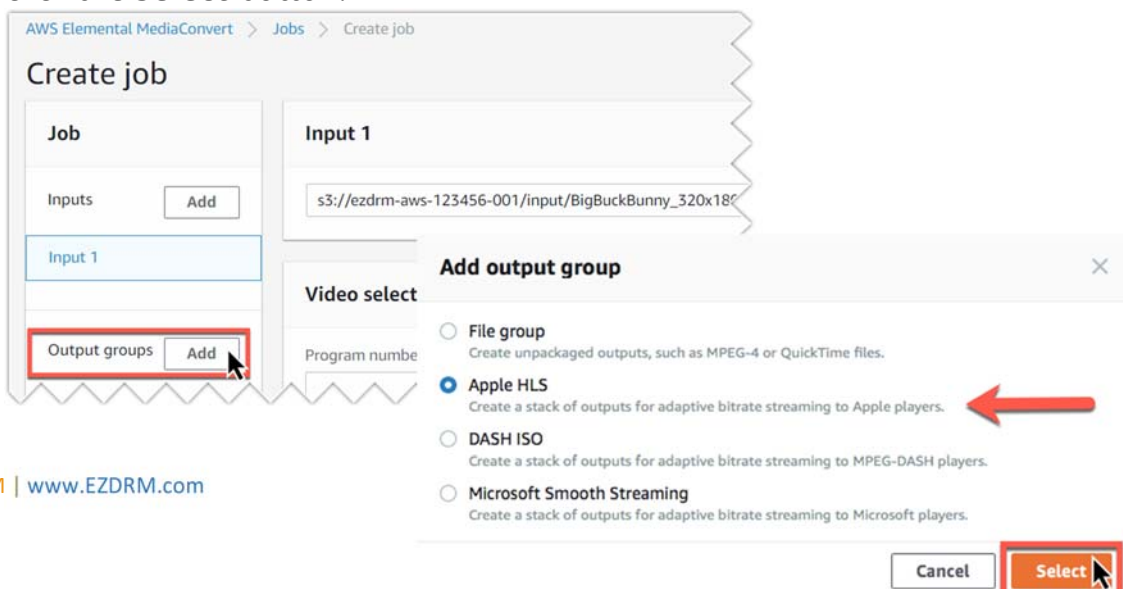




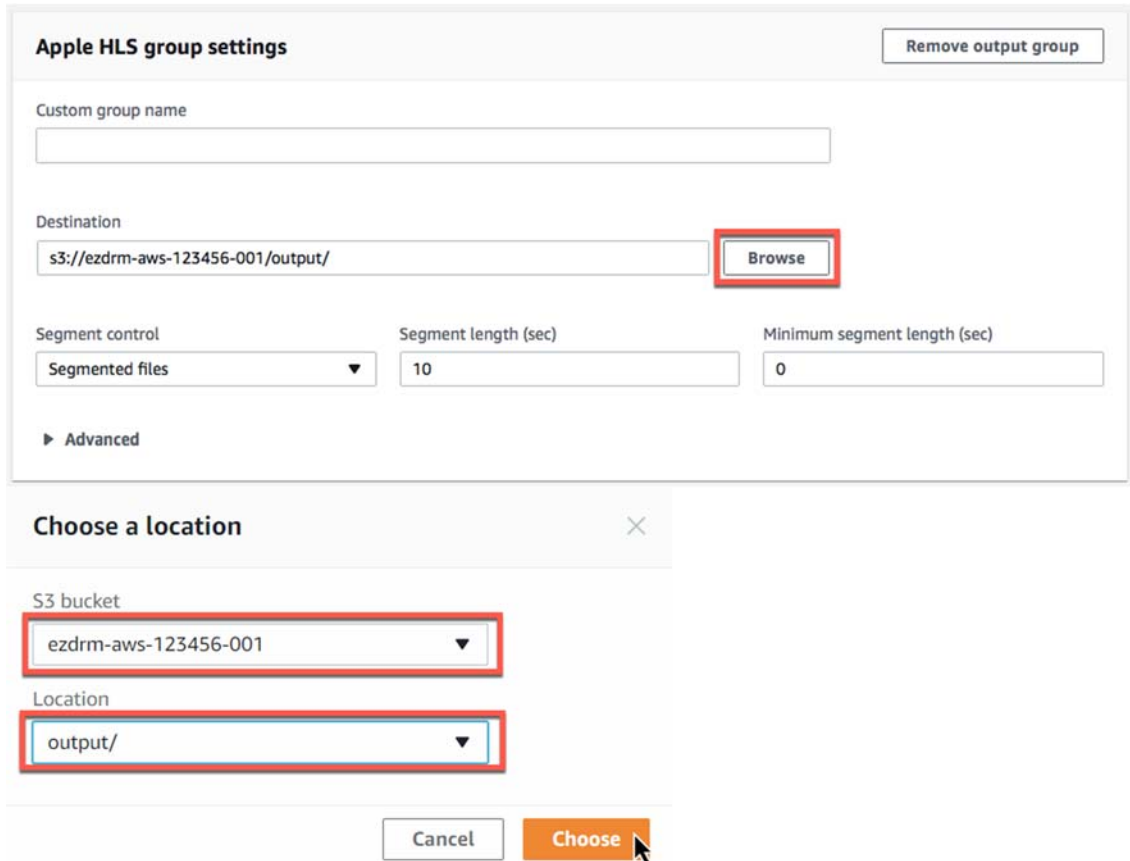
11. For **Input 1** click browse to select the input file, for this example select the **S3 Bucket** named **ezdrm-aws-123456-001** and the **BigBuckBunny_320x180.mp4** file in the **input** folder previously created. Click the **Choose** button.



12. Next click the **Add** for **Output groups**. For this example, select **Apple HLS** and click the **Select** button.



13. The Apple HLS group settings will open. The **Custom Group Name** is optional. Under **Destination** click to **Browse** to the **S3 Bucket** created for this sample named **ezdrm-aws-123456-001** and the **output** folder previously created. Click the **Choose** button.



The image shows two overlapping dialog boxes. The top dialog is titled "Apple HLS group settings" and contains the following fields:

- Custom group name:** An empty text input field.
- Destination:** A text input field containing "s3://ezdrm-aws-123456-001/output/" with a "Browse" button to its right.
- Segment control:** A dropdown menu set to "Segmented files".
- Segment length (sec):** A text input field containing "10".
- Minimum segment length (sec):** A text input field containing "0".
- Advanced:** A toggle switch currently turned off.
- Remove output group:** A button in the top right corner.

The bottom dialog is titled "Choose a location" and contains the following fields:

- S3 bucket:** A dropdown menu with "ezdrm-aws-123456-001" selected.
- Location:** A dropdown menu with "output/" selected.
- Buttons:** "Cancel" and "Choose" buttons at the bottom.

14. Scroll down and select the toggle for **DRM Encryption**.


DRM encryption
[Info](#)

Encryption method

SAMPLE-AES

Key provider type

SPEKE

Initialization vector in manifest

Include

Resource ID

The output group settings resource ID from the keyprovider service. Must contain only alphanumeric characters, dashes, and underscores.

yourresourceID

System ID

Unique identifiers for the DRM system to use. One ID per line. Must contain at least one entry, and up to two entries.

94ce86fb-07ff-4f43-adb8-93d2fa968ca2

URL

https://kpi00ywyrc.execute-api.us-east-1.amazonaws.com/EzDRMStage/copyProtecton

Constant initialization vector

IV used with the key to encrypt content. Must be a 128-bit, 32 characters, hex-encoded string

The parameters are as follows:

- **Encryption method:** select **SAMPLE_AES**.
- **Key provider type:** select **SPEKE**.
- **Initialization vector in manifest:** select **Include**.
- **ResourceID:** this will be the ID that references your DRM Keys. This is a required field.

Note: The first time you send a ResourceID to run a job, the ID will be tied to the DRM keys for that job. Jobs can use the same ResourceID to reference the same keys or for new DRM Keys send a new ResourceID. It is best not to use a ResourceID from a failed job.

- **System ID:** Unique identifiers for the DRM system to use. Insert the System ID for Apple FairPlay, one ID per line:
94ce86fb-07ff-4f43-adb8-93d2fa968ca2

Note: The System ID values need to be lowercase.

- **URL:** The URL is the **API URL** copied from **Step 9** above, except at to the end of the URL add **"/copyProtection"**. (This is case sensitive, be sure **capitalize the P** in Protection.)

Sample URL:

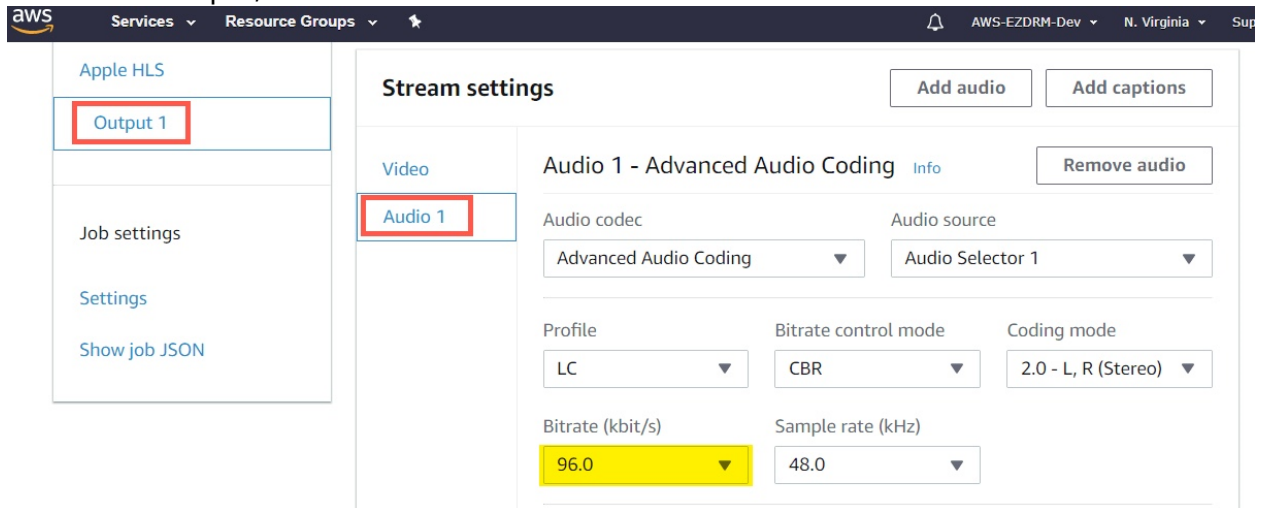
<https://kxx00ywyr.execute-api.us-east-1.amazonaws.com/EzDRMStage/copyProtection>

15. Next, scroll down to the next section called **Outputs**. Enter a name for **Output 1**; for this example, we named it based on the quality rate of 96 "_quality_rate_96".



Outputs		Add output
Output	Name modifier	
Output 1	_quality_rate_96	X

16. Go back up to the top left side of the screen to change the settings for **Output 1**. Under the **Audio 1** output, be sure to set the appropriate **Bitrate (kbit/s)**. For this example, it is set to 96.0.



Stream settings

Audio 1 - Advanced Audio Coding

Audio codec: Advanced Audio Coding

Audio source: Audio Selector 1

Profile: LC

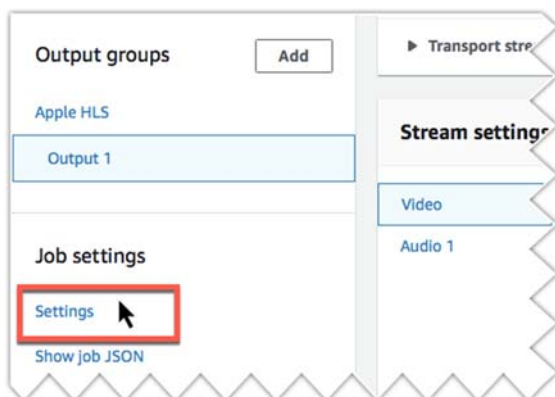
Bitrate control mode: CBR

Coding mode: 2.0 - L, R (Stereo)

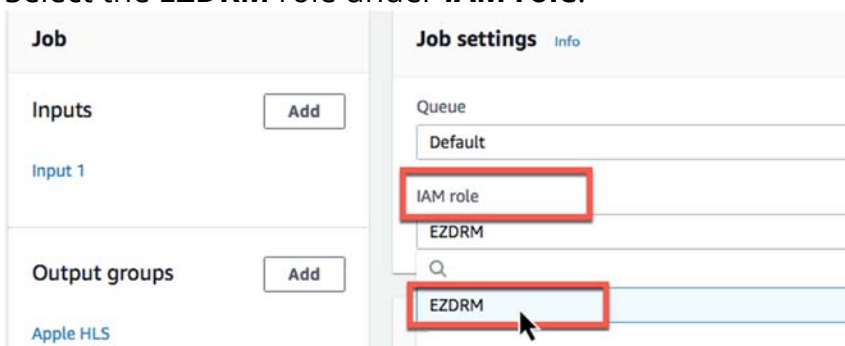
Bitrate (kbit/s): 96.0

Sample rate (kHz): 48.0

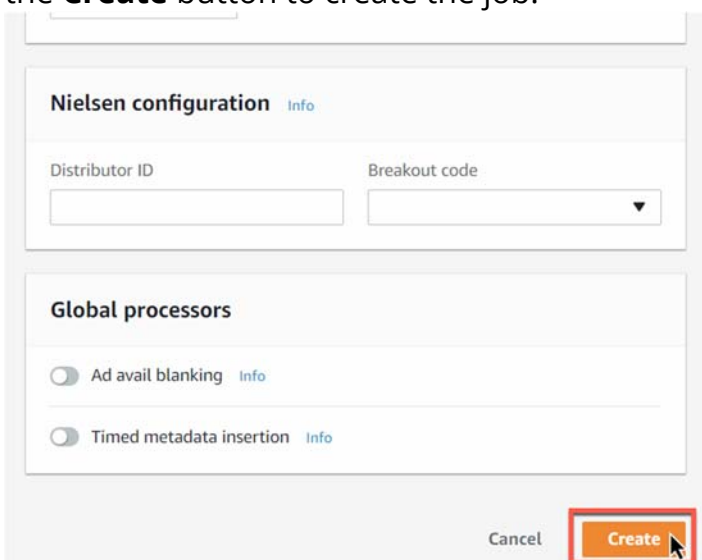
17. Next select **Settings** under **Job settings**.



18. Select the **EZDRM** role under **IAM role**.



19. Once all of the settings are complete, scroll to the bottom of the page and click the **Create** button to create the job.



20. The job will show Submitted and then if you click the **Refresh** button, you will see the job listed as Complete.

[AWS Elemental MediaConvert](#) > [Jobs](#) > Job summary

Job summary

 Refresh

Details

Duplicate

View JSON

Overview

Status	Queue	Job ID
COMPLETE	Default	1520623052796-mlwl3v
Role	Submit time	Start time
EZDRM	2018-03-09 14:17:32	2018-03-09 14:17:33
Finish time	Duration in queue	Duration in transcoding
2018-03-09 14:19:30	00:00:01	00:01:57