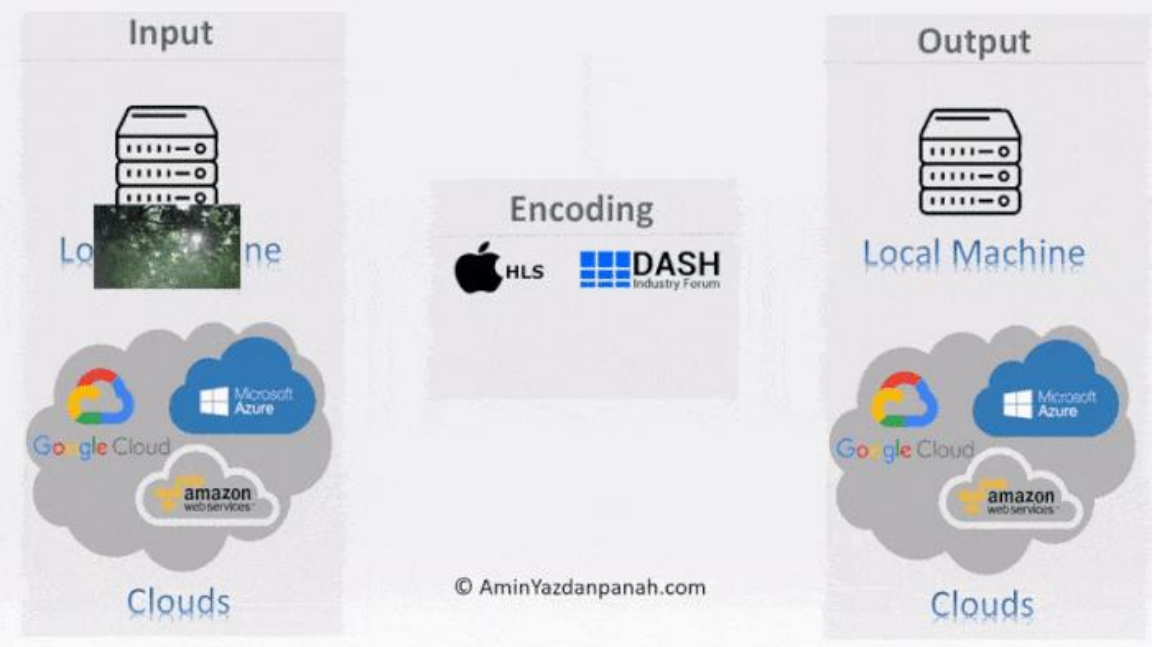
Media Streaming With IBM Cloud

Video Streaming

phase 3 submission document

Topic: A high-level overview of the steps to stream media using IBM Cloud Video Streaming



Introduction

I can provide you with an example of how to stream media, such as video, using IBM Cloud's Video Streaming service. Please note that the code and services may have evolved since my last knowledge update in September 2021, so I recommend checking IBM Cloud's documentation for the most up-to-date information.

Here is a high-level overview of the steps to stream media using IBM Cloud Video Streaming:

Create an IBM Cloud Account:

If you don't have an IBM Cloud account, sign up for one at https://cloud.ibm.com/registration.

Provision the IBM Video Streaming Service:

In your IBM Cloud Dashboard, provision the IBM Video Streaming service. You can find it in the catalog of available services. Follow the prompts to create an instance.

Set Up IBM Cloud Object Storage:

Log in to your IBM Cloud account.

Create an instance of IBM Cloud Object Storage.

Create buckets for storing your video content.

Generate API Credentials:

You'll need API credentials to interact with the Video Streaming service. Go to the service dashboard, and look for an option to create API keys. Make sure to note down the API key and API secret.

Set Up Your Video Source:

You'll need a video source, such as a camera or a video file, to stream. Ensure your video source is configured correctly.

Write Code to Stream Video:

You can use a programming language of your choice to write code for streaming video. Below is an example using Python and the IBM Watson Media SDK (make sure to install the SDK using pip):

python code

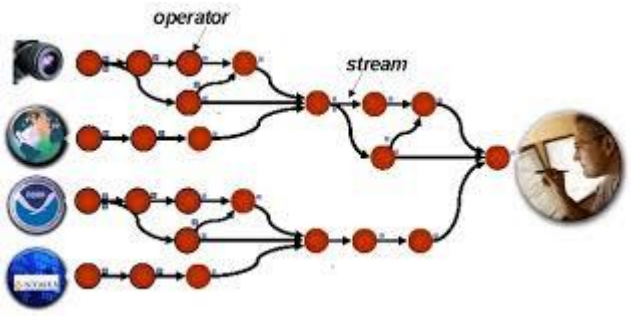
```
from ibm_watson import MediaServiceV1
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator

# Initialize the authenticator
authenticator = IAMAuthenticator(apikey='YOUR_API_KEY')

# Initialize the Video Streaming service
media_service = MediaServiceV1(
    authenticator=authenticator
)

# Set the service URL
media_service.set_service_url('YOUR_SERVICE_URL')

# Specify the video source, e.g., a camera or a file
video_source = 'rtsp://your-camera-url'  # Replace with your actual source

# Start streaming
response = media_service.create_channel(
    source=video_source,
    name='MyVideoStream'
)

# Get the channel ID from the response
channel_id = response.result['id']
```

```
# Print the channel ID
print(f'Channel ID: {channel_id}')
```

Make sure to replace 'YOUR_API_KEY' and 'YOUR_SERVICE_URL' with your actual API key and Video Streaming service URL.

View the Stream:

Once the video is streaming, you can view it through the provided channel ID using a supported player or viewer. You can embed this viewer in your website or application.



Please note that this is a simplified example, and real-world implementations may vary depending on your specific use case and requirements. It's essential to consult IBM Cloud's documentation for detailed guidance and consider factors like video encoding, quality settings, security, and viewer integration.

Thank ou