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What is kinesis?

- 1. Enables you to deal with streaming data
- 2. Generates insights from incoming data in seconds or minutes
- 3. Scalable Assignment Project Exam Help
- 4. Can handle any amount

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Variants of kinesis

- Kinesis video stream: To securely stream video from connected devices to AWS.
- 2. <u>Kinesis Data Firehouse</u>: Capture, transform and load data into AWS stores like data lake, data store..
- 3. Kinesis Data Analytics Strengton and all tyze stream to data in real dishe with Apache Flink.

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Kinesis Video Stream

- 1. Connect and stream from millions of devices
- 2. Durably store, encrypt, and index data used in HW2
- 3. Build real-time and batch applications to Parto iteams Exam Help
- Stream data more secur
- 5. Pay as you go https://eduassistpro.github.io/

How it works?

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Set up

- Refer to the build and run sections in <u>https://github.com/awslabs/amazon-kinesis-video-streams-producer-sdk-cpp</u>
 GStreamer and JNI is NOT built by default, you MUST execute
 cmake .. -DBUILD_GSTREAMER_PLUGIN=ON -DBUILD_JNI=TRUE
- 2. Create a kinesisvided stream in the appropriate the default configuration and enter your video stream name.

ion=us-east-2<u>#/ttps://us-east-2.conso</u>

- 3. cd build and execute
 4. AWS ACCESS KEY https://eduassistpro.github.io/=<your secret
 - key> AWS_DEFAULT_REGION=us-east-2 ./kv ple
 <your_video_stream_nanced www.enlastedu_assist_pro
- 5. Under your Media Playback session in your stre tream in aws console, you should be able to see the video streaming.

 https://us-east-2 console aws amazon com/kinesisvideo/home?region=us-east-2#/streams/st
 - https://us-east-2.console.aws.amazon.com/kinesisvideo/home?region=us-east-2#/streams/stream_name/<yourv_video_stream_name/

Getting current image snapshot from KVS

Get byte stream from KVS

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- 2. Write this to a file in chunks
- 3. Read the image from this file using cv2 library(python)

```
vidcap = cv2.VideoCapture(the_video_file_path_from_step2)
success, image = vidcap.read()
```

References

- https://aws.amazon.com/kinesis/video-streams/
- 2. https://docs.aws.amazon.com/kinesisvideostreams/latest/dg/what-is-kinesis-video.html
- 3. https://github.com/awslabs/amazon-kinesis-video-streams-producer-sdk-cpp
- 4. https://github.com/awslabs/amazon-kinesis-video-streams-producer-sdk-cpp/tree/master/docs-Assignment Project Exam Help

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