SuperDataScience

# AWS Machine Learning
## Practical Exams Reward

1. **You have a stream of data coming from your website and it is supplied to Amazon Kinesis. How long will the data be retained for processing before being deleted in the default setting?**

   A 12 hours
   B 24 hours
   C 48 hours
   D 7 days

2. **Which are the different sources from which data can be ingested on to the AWS Kinesis Video Stream? (Select two):**

   A Satellite
   B IOT devices
   C Lidar
   D GPS

3. **An e-commerce site uses the clickstream data generated from the website to produce product recommendations for the potential customers. During black Friday and Boxing day, traffic to the site spikes. That creates a need for scalability in processing the input data stream. Which AWS system would provide reliable and effective solution to this problem?**

   A Publish click data through AWS Athena to Amazon S3
   B Publish click data through AWS RedShift to Amazon S3
   C Publish click data through MapReduce to Amazon S3
   D Publish click data through Kinesis Firehose to Amazon S3

4. **You have very little experience with working on stream data but you have good experience in using SQL for query. What AWS service can help you to analyze stream data with ease?**

   A Kinesis Data Analytics
   B Kinesis Data Stream

C Kinesis Firehose

D Kinesis Video Streams

5. **If your company is working on to solve a time-sensitive Machine Learning problem and they would like to reduce their data processing time while using AWS Kinesis Data Streams to stream data. Which of the following would help with this?**

A Kinesis Producer Library

B Kinesis API

C Kinesis Client Library

D Kinesis Console

6. **An online gaming company collects streaming data about player-game interactions and then they want to analyzes the data in real-time, and offer dynamic experiences to engage its players. On a high-level which AWS service would help here?**

A AWS Sagemaker

B AWS Kinesis

C AWS Redshift

D AWS Polly

7. **Students as a part of their project wanted to install a camera on the dashboard of the vehicle that automatically detects the traffic signs in the road. Which AWS services can be used?**

A Using DeepLens and Amazon Rekognition pretrained to detect traffic signs

B DeepLens, AWS Kinesis Video Stream and pre-trained Resnet50

C DeepLens, AWS Kinesis Video Stream and CNN trained with Sagemaker using labeled training set of videos containing traffic signs

D DeepLens, AWS Kinesis Video Stream and pre-trained VGG-16

8. **A company consists of 50 IoT enabled machines which will be streaming every second. Which would be the appropriate AWS services that can collect these stream data and analyze on the go?**

   A AWS Kinesis DataStream to load data and Kinesis Analytics to analyze the data
   B AWS S3 to load data and Kinesis Analytics to analyze the data
   C AWS Kinesis DataStream to load data and AWS MapReduce to analyze the data
   D AWS S3 to load data and AWS MapReduce to analyze the data

9. **You are running an event management company and you wish to capture the streaming data from the event. You also want to process this data, only after 3 days from collecting the data. How can you achieve this?**

   A Use Kinesis Data Stream to stream the data and set the retention period to 7 days
   B Use Kinesis Firehose to stream the data and set the retention period to 7 days
   C Use Kinesis Data Stream to stream the data and it automatically retains the data for 72 hours
   D Use Kinesis Firehose to stream the data and it automatically retains the data for 72 hours

10. **Which of the following would help you to load the stream of data into various data stores without any hassle and also if you want to perform analytics, you can load directly into analytical tools?**

    A Kinesis Stream
    B Kinesis Data Analytics
    C Kinesis Firehose
    D Kinesis Video Stream

## ANSWER KEY:

| | | | | |
|---|---|---|---|---|
| 1. B | 2. A, C | 3. D | 4. A | 5. B |
| 6. B | 7. C | 8. A | 9. A | 10. C |