

Exam AWS-Certified-Machine-Learning-Specialty Objectives & Valid AWS-Certified-Machine-Learning-Specialty Exam Camp Pdf



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Recommended Experience

Before registering for the AWS Certified Machine Learning – Specialty exam, the applicant should ensure meeting some prerequisites as stated by the vendor. First, working experience of 1-2 years in running ML workloads as well as their development and architecting on AWS cloud is a must for the candidate. Moreover, it is recommended to have practical skills in executing the hyperparameter optimization, deep learning and ML frameworks, and operational and model-training best practices for AWS Machine learning.

The AWS Certified Machine Learning - Specialty certification is highly valued in the industry and can open up a wide range of career opportunities for professionals. It is recognized as a benchmark for excellence in machine learning and data science, and it is highly sought after by employers. AWS Certified Machine Learning - Specialty certification can help professionals stand out from the crowd and demonstrate their expertise and proficiency in the field of machine learning.

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With AWS-Certified-Machine-Learning-Specialty practice materials, you don't need to spend a lot of time and effort on reviewing and preparing. For everyone, time is precious. Office workers and mothers are very busy at work and home; students may have studies or other things. Using AWS-Certified-Machine-Learning-Specialty Guide questions, you only need to spend a small amount of time to master the core key knowledge, pass the AWS-Certified-Machine-Learning-Specialty exam, and get a certificate.

Amazon MLS-C01 exam covers a wide range of topics related to machine learning on AWS. These topics include data collection, preprocessing, and storage; model selection and training; deployment and monitoring; and data security and compliance. AWS-Certified-Machine-Learning-Specialty Exam also covers AWS services such as Amazon SageMaker, Amazon Rekognition, and Amazon Comprehend.

Amazon AWS Certified Machine Learning - Specialty Sample Questions

(Q42-Q47):

NEW QUESTION # 42

A company has set up and deployed its machine learning (ML) model into production with an endpoint using Amazon SageMaker hosting services. The ML team has configured automatic scaling for its SageMaker instances to support workload changes. During testing, the team notices that additional instances are being launched before the new instances are ready. This behavior needs to change as soon as possible.

How can the ML team solve this issue?

- **A. Increase the cooldown period for the scale-out activity.**
- B. Set up Amazon API Gateway and AWS Lambda to trigger the SageMaker inference endpoint.
- C. Decrease the cooldown period for the scale-in activity. Increase the configured maximum capacity of instances.
- D. Replace the current endpoint with a multi-model endpoint using SageMaker.

Answer: A

Explanation:

The correct solution for changing the scaling behavior of the SageMaker instances is to increase the cooldown period for the scale-out activity. The cooldown period is the amount of time, in seconds, after a scaling activity completes before another scaling activity can start. By increasing the cooldown period for the scale-out activity, the ML team can ensure that the new instances are ready before launching additional instances. This will prevent over-scaling and reduce costs¹. The other options are incorrect because they either do not solve the issue or require unnecessary steps. For example:

Option A decreases the cooldown period for the scale-in activity and increases the configured maximum capacity of instances. This option does not address the issue of launching additional instances before the new instances are ready. It may also cause under-scaling and performance degradation.

Option B replaces the current endpoint with a multi-model endpoint using SageMaker. A multi-model endpoint is an endpoint that can host multiple models using a single endpoint. It does not affect the scaling behavior of the SageMaker instances. It also requires creating a new endpoint and updating the application code to use it². Option C sets up Amazon API Gateway and AWS Lambda to trigger the SageMaker inference endpoint. Amazon API Gateway is a service that allows users to create, publish, maintain, monitor, and secure APIs. AWS Lambda is a service that lets users run code without provisioning or managing servers. These services do not affect the scaling behavior of the SageMaker instances. They also require creating and configuring additional resources and services^{3,4}.

References:

- 1: Automatic Scaling - Amazon SageMaker
- 2: Create a Multi-Model Endpoint - Amazon SageMaker
- 3: Amazon API Gateway - Amazon Web Services
- 4: AWS Lambda - Amazon Web Services

NEW QUESTION # 43

A sports analytics company is providing services at a marathon. Each runner in the marathon will have their race ID printed as text on the front of their shirt. The company needs to extract race IDs from images of the runners.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Use a custom convolutional neural network (CNN).
- **B. Use Amazon Rekognition.**
- C. Use Amazon Lookout for Vision.
- D. Use the Amazon SageMaker Object Detection algorithm.

Answer: B

NEW QUESTION # 44

A network security vendor needs to ingest telemetry data from thousands of endpoints that run all over the world. The data is transmitted every 30 seconds in the form of records that contain 50 fields. Each record is up to 1 KB in size. The security vendor uses Amazon Kinesis Data Streams to ingest the data. The vendor requires hourly summaries of the records that Kinesis Data Streams ingests. The vendor will use Amazon Athena to query the records and to generate the summaries. The Athena queries will target 7 to 12 of the available data fields.

Which solution will meet these requirements with the LEAST amount of customization to transform and store the ingested data?

- **A. Use Amazon Kinesis Data Analytics to read and aggregate the data hourly. Transform the data and store it in Amazon S3**

by using Amazon Kinesis Data Firehose.

- B. Use Amazon Kinesis Data Firehose to read and aggregate the data hourly. Transform the data and store it in Amazon S3 by using AWS Lambda.
- C. Use Amazon Kinesis Data Firehose to read and aggregate the data hourly. Transform the data and store it in Amazon S3 by using a short-lived Amazon EMR cluster.
- D. Use AWS Lambda to read and aggregate the data hourly. Transform the data and store it in Amazon S3 by using Amazon Kinesis Data Firehose.

Answer: A

Explanation:

The solution that will meet the requirements with the least amount of customization to transform and store the ingested data is to use Amazon Kinesis Data Analytics to read and aggregate the data hourly, transform the data and store it in Amazon S3 by using Amazon Kinesis Data Firehose. This solution leverages the built-in features of Kinesis Data Analytics to perform SQL queries on streaming data and generate hourly summaries. Kinesis Data Analytics can also output the transformed data to Kinesis Data Firehose, which can then deliver the data to S3 in a specified format and partitioning scheme. This solution does not require any custom code or additional infrastructure to process the data. The other solutions either require more customization (such as using Lambda or EMR) or do not meet the requirement of aggregating the data hourly (such as using Lambda to read the data from Kinesis Data Streams). References:

- 1: Boosting Resiliency with an ML-based Telemetry Analytics Architecture | AWS Architecture Blog
- 2: AWS Cloud Data Ingestion Patterns and Practices
- 3: IoT ingestion and Machine Learning analytics pipeline with AWS IoT ...
- 4: AWS IoT Data Ingestion Simplified 101: The Complete Guide - Hevo Data

NEW QUESTION # 45

A manufacturing company has structured and unstructured data stored in an Amazon S3 bucket.

A Machine Learning Specialist wants to use SQL to run queries on this data.

Which solution requires the LEAST effort to be able to query this data?

- A. Use AWS Glue to catalogue the data and Amazon Athena to run queries.
- B. Use AWS Lambda to transform the data and Amazon Kinesis Data Analytics to run queries.
- C. Use AWS Data Pipeline to transform the data and Amazon RDS to run queries.
- D. Use AWS Batch to run ETL on the data and Amazon Aurora to run the queries.

Answer: A

NEW QUESTION # 46

A Machine Learning Specialist is developing recommendation engine for a photography blog. Given a picture, the recommendation engine should show a picture that captures similar objects. The Specialist would like to create a numerical representation feature to perform nearest-neighbor searches. What actions would allow the Specialist to get relevant numerical representations?

- A. Average colors by channel to obtain three-dimensional representations of images.
- B. Use Amazon Mechanical Turk to label image content and create a one-hot representation indicating the presence of specific labels.
- C. Run images through a neural network pre-trained on ImageNet, and collect the feature vectors from the penultimate layer.
- D. Reduce image resolution and use reduced resolution pixel values as features.

Answer: D

NEW QUESTION # 47

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