

Amazon AWS-Certified-Machine-Learning-Specialty Prüfungsmaterialien - AWS-Certified-Machine- Learning-Specialty Lernhilfe



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Die Amazon AWS-zertifizierte Machine-Learning-Spezifikation (AWS Certified Machine Learning-Specialty) ist eine professionelle Zertifizierung auf professioneller Ebene, mit Webdienste (AWS). Diese Zertifizierungsprüfung richtet sich an Datenwissenschaftler, Softwareentwickler und maschinelles Lernen, die ihr Know-how zum Aufbau und Bereitstellen von ML-Lösungen für AWS demonstrieren möchten.

Um für die AWS-zertifizierte maschinelle Lernen - Spezialzertifizierungsprüfung zu erhalten, müssen die Kandidaten mindestens ein Jahr Erfahrung in der Entwicklung und Wartung von Lösungen für maschinelles Lernen mithilfe von AWS haben. Sie sollten auch ein gutes Verständnis für AWS-Dienste wie AWS Lambda, AWS S3, AWS EC2 und AWS CloudFormation haben.

Die Zertifizierungsprüfung ist darauf ausgelegt, das Wissen des Kandidaten über AWS-Dienste und -Tools für maschinelles Lernen sowie seine Fähigkeit zur Entwicklung von Maschinenlernmodellen und -lösungen und sein Verständnis von Datenbereitstellungs- und Bewertungstechniken zu testen. Die Prüfung umfasst eine Reihe von Themen, einschließlich Datenengineering, explorative Datenanalyse, Feature-Engineering, Modellierung, Optimierung und Bewertung.

>> Amazon AWS-Certified-Machine-Learning-Specialty Prüfungsmaterialien <<

Echte AWS-Certified-Machine-Learning-Specialty Fragen und Antworten der AWS-Certified-Machine-Learning-Specialty Zertifizierungsprüfung

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Amazon AWS Certified Machine Learning - Specialty AWS-Certified-Machine-Learning-Specialty Prüfungsfragen mit Lösungen (Q121-Q126):

121. Frage

A Machine Learning Specialist is using Amazon Sage Maker to host a model for a highly available customer-facing application. The Specialist has trained a new version of the model, validated it with historical data, and now wants to deploy it to production. To limit any risk of a negative customer experience, the Specialist wants to be able to monitor the model and roll it back, if needed. What is the SIMPLEST approach with the LEAST risk to deploy the model and roll it back, if needed?

- A. Create a SageMaker endpoint and configuration for the new model version. Redirect production traffic to the new endpoint by updating the client configuration. Revert traffic to the last version if the model does not perform as expected.
- B. Update the existing SageMaker endpoint to use a new configuration that is weighted to send 100% of the traffic to the new variant. Revert traffic to the last version by resetting the weights if the model does not perform as expected.
- **C. Update the existing SageMaker endpoint to use a new configuration that is weighted to send 5% of the traffic to the new variant. Revert traffic to the last version by resetting the weights if the model does not perform as expected.**
- D. Create a SageMaker endpoint and configuration for the new model version. Redirect production traffic to the new endpoint by using a load balancer. Revert traffic to the last version if the model does not perform as expected.

Antwort: C

Begründung:

Updating the existing SageMaker endpoint to use a new configuration that is weighted to send 5% of the traffic to the new variant is the simplest approach with the least risk to deploy the model and roll it back, if needed. This is because SageMaker supports A/B testing, which allows the Specialist to compare the performance of different model variants by sending a portion of the traffic to each variant. The Specialist can monitor the metrics of each variant and adjust the weights accordingly. If the new variant does not perform as expected, the Specialist can revert traffic to the last version by resetting the weights to 100% for the old variant and 0% for the new variant. This way, the Specialist can deploy the model without affecting the customer experience and roll it back easily if needed. References:

Amazon SageMaker

Deploying models to Amazon SageMaker hosting services

122. Frage

A media company with a very large archive of unlabeled images, text, audio, and video footage wishes to index its assets to allow rapid identification of relevant content by the Research team. The company wants to use machine learning to accelerate the efforts of its in-house researchers who have limited machine learning expertise.

Which is the FASTEST route to index the assets?

- A. Use the AWS Deep Learning AMI and Amazon EC2 GPU instances to create custom models for audio transcription and topic modeling, and use object detection to tag data into distinct categories/classes.
- **B. Use Amazon Rekognition, Amazon Comprehend, and Amazon Transcribe to tag data into distinct categories/classes.**
- C. Use Amazon Transcribe to convert speech to text. Use the Amazon SageMaker Neural Topic Model (NTM) and Object Detection algorithms to tag data into distinct categories/classes.
- D. Create a set of Amazon Mechanical Turk Human Intelligence Tasks to label all footage.

Antwort: B

Begründung:

Amazon Rekognition, Amazon Comprehend, and Amazon Transcribe are AWS machine learning services that can analyze and extract metadata from images, text, audio, and video content. These services are easy to use, scalable, and do not require any machine learning expertise. They can help the media company to quickly index its assets and enable rapid identification of relevant content by the research team. Using these services is the fastest route to index the assets, compared to the other options that involve human intervention, custom model development, or additional steps. References:

AWS Media Intelligence Solutions

123. Frage

A machine learning specialist is running an Amazon SageMaker endpoint using the built-in object detection algorithm on a P3 instance for real-time predictions in a company's production application. When evaluating the model's resource utilization, the specialist notices that the model is using only a fraction of the GPU.

Which architecture changes would ensure that provisioned resources are being utilized effectively?

- A. Redeploy the model on a P3dn instance.
- B. Redeploy the model on an M5 instance. Attach Amazon Elastic Inference to the instance.
- **C. Deploy the model onto an Amazon Elastic Container Service (Amazon ECS) cluster using a P3 instance.**
- D. Redeploy the model as a batch transform job on an M5 instance.

Antwort: C

124. Frage

For the given confusion matrix, what is the recall and precision of the model?

		Actual	
		Yes	No
Predicted	Yes	12	3
	No	1	9

- A. Recall = 0.92 Precision = 0.8
- B. Recall = 0.84 Precision = 0.8
- **C. Recall = 0.92 Precision = 0.84**
- D. Recall = 0.8 Precision = 0.92

Antwort: C

125. Frage

A media company wants to create a solution that identifies celebrities in pictures that users upload. The company also wants to identify the IP address and the timestamp details from the users so the company can prevent users from uploading pictures from unauthorized locations.

Which solution will meet these requirements with LEAST development effort?

- A. Use AWS Panorama to identify celebrities in the pictures. Make calls to the AWS Panorama Device SDK to capture IP address and timestamp details.
- B. Use AWS Panorama to identify celebrities in the pictures. Use AWS CloudTrail to capture IP address and timestamp details.
- **C. Use Amazon Rekognition to identify celebrities in the pictures. Use AWS CloudTrail to capture IP address and timestamp details.**
- D. Use Amazon Rekognition to identify celebrities in the pictures. Use the text detection feature to capture IP address and timestamp details.

Antwort: C

Begründung:

The solution C will meet the requirements with the least development effort because it uses Amazon Rekognition and AWS CloudTrail, which are fully managed services that can provide the desired functionality. The solution C involves the following steps: Use Amazon Rekognition to identify celebrities in the pictures. Amazon Rekognition is a service that can analyze images and videos

and extract insights such as faces, objects, scenes, emotions, and more. Amazon Rekognition also provides a feature called Celebrity Recognition, which can recognize thousands of celebrities across a number of categories, such as politics, sports, entertainment, and media. Amazon Rekognition can return the name, face, and confidence score of the recognized celebrities, as well as additional information such as URLs and biographies¹.

Use AWS CloudTrail to capture IP address and timestamp details. AWS CloudTrail is a service that can record the API calls and events made by or on behalf of AWS accounts. AWS CloudTrail can provide information such as the source IP address, the user identity, the request parameters, and the response elements of the API calls. AWS CloudTrail can also deliver the event records to an Amazon S3 bucket or an Amazon CloudWatch Logs group for further analysis and auditing².

The other options are not suitable because:

Option A: Using AWS Panorama to identify celebrities in the pictures and using AWS CloudTrail to capture IP address and timestamp details will not meet the requirements effectively. AWS Panorama is a service that can extend computer vision to the edge, where it can run inference on video streams from cameras and other devices. AWS Panorama is not designed for identifying celebrities in pictures, and it may not provide accurate or relevant results. Moreover, AWS Panorama requires the use of an AWS Panorama Appliance or a compatible device, which may incur additional costs and complexity³.

Option B: Using AWS Panorama to identify celebrities in the pictures and making calls to the AWS Panorama Device SDK to capture IP address and timestamp details will not meet the requirements effectively, for the same reasons as option A. Additionally, making calls to the AWS Panorama Device SDK will require more development effort than using AWS CloudTrail, as it will involve writing custom code and handling errors and exceptions⁴.

Option D: Using Amazon Rekognition to identify celebrities in the pictures and using the text detection feature to capture IP address and timestamp details will not meet the requirements effectively. The text detection feature of Amazon Rekognition is used to detect and recognize text in images and videos, such as street names, captions, product names, and license plates. It is not suitable for capturing IP address and timestamp details, as these are not part of the pictures that users upload. Moreover, the text detection feature may not be accurate or reliable, as it depends on the quality and clarity of the text in the images and videos⁵.

References:

- 1: Amazon Rekognition Celebrity Recognition
- 2: AWS CloudTrail Overview
- 3: AWS Panorama Overview
- 4: AWS Panorama Device SDK
- 5: Amazon Rekognition Text Detection

126. Frage

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Damit wir besser auf die derzeitigen Herausforderungen reagieren und Ihnen die Fragenkataloge zur Amazon AWS-Certified-Machine-Learning-Specialty Zertifizierungsprüfung von besserer Qualität bieten können, versuchen wir, unser Bestes zu tun, indem wir die IT-Elite Gruppe von DeutschPrüfung verändern und die Testaufgaben von der Amazon AWS-Certified-Machine-Learning-Specialty Zertifizierungsprüfung rechtzeitig aktualisieren. Unser Ziel liegt darin, dass Sie die Amazon AWS-Certified-Machine-Learning-Specialty Zertifizierungsprüfung in kürzester Zeit leicht bestehen können. Bevor Sie unsere Prüfungsmaterialien kaufen, können Sie ein paar kostenlose Prüfungsfragen und Antworten herunterladen und proben.

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