

## AI-100<sup>Q&As</sup>

Designing and Implementing an Azure AI Solution

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## QUESTION 1

You are designing a solution that will use the Azure Content Moderator service to moderate user-generated content.

You need to moderate custom predefined content without repeatedly scanning the collected content.

Which API should you use?

- A. Term List API
- B. Text Moderation API
- C. Image Moderation API
- D. Workflow API

Correct Answer: A

The default global list of terms in Azure Content Moderator is sufficient for most content moderation needs. However, you might need to screen for terms that are specific to your organization. For example, you might want to tag competitor

names for further review.

Use the List Management API to create custom lists of terms to use with the Text Moderation API. The Text - Screen operation scans your text for profanity, and also compares text against custom and shared blacklists.

Incorrect Answers:

B: Use the Text Moderation API in Azure Content Moderator to scan your text content. The operation scans your content for profanity, and compares the content against custom and shared blacklists.

References: <https://docs.microsoft.com/en-us/azure/cognitive-services/content-moderator/try-terms-list-api>

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## QUESTION 2

You are designing an Azure Batch AI solution that will perform image recognition. The solution will be used to train several Azure Machine Learning models.

You need to enable versioning for Azure Machine Learning models.

What should you do?

- A. Register the Azure Machine Learning models.
- B. Use Azure HDInsight cluster.
- C. Use Machine Learning experiments.
- D. Use Machine Learning pipelines.

Correct Answer: A

Model registration allows you to store and version your models in the Azure cloud, in your workspace. The model registry makes it easy to organize and keep track of your trained models.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio/version-control> <https://docs.microsoft.com/en-us/azure/machine-learning/how-to-deploy-and-where>

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### QUESTION 3

Your company's developers have created an Azure Data Factory pipeline that moves data from an on-premises server to Azure Storage. The pipeline consumes

Azure Cognitive Services APIs.

You need to deploy the pipeline. Your solution must minimize custom code.

You use Integration Runtime to move data to the cloud and Azure API Management to consume Cognitive Services APIs.

Does this action accomplish your objective?

- A. Yes, it does
- B. No, it does not

Correct Answer: B

The given solution does not accomplish the objective of minimizing custom code. While Integration Runtime can be used to move data from an on-premises server to Azure Storage, and Azure API Management can be used to consume Cognitive Services APIs, it does not eliminate the need for custom code.

To minimize custom code and simplify the deployment of the pipeline, you should consider using Azure Logic Apps. Azure Logic Apps provide a serverless and code-free way to orchestrate workflows and integrate different systems and services.

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/concepts-integration-runtime> <https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-examples-and-scenarios>

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### QUESTION 4

You are designing an AI solution that will provide feedback to teachers who train students over the Internet. The students will be in classrooms located in remote areas. The solution will capture video and audio data of the students in the classrooms.

You need to recommend Azure Cognitive Services for the AI solution to meet the following requirements:

- 1.

Alert teachers if a student facial expression indicates the student is angry or scared.

2.

Identify each student in the classrooms for attendance purposes.

3.

Allow the teachers to log voice conversations as text. Which Cognitive Services should you recommend?

- A. Face API and Text Analytics
- B. Computer Vision and Text Analytics
- C. QnA Maker and Computer Vision
- D. Speech to Text and Face API

Correct Answer: D

Speech-to-text from Azure Speech Services, also known as speech-to-text, enables real-time transcription of audio streams into text that your applications, tools, or devices can consume, display, and take action on as command input.

Face detection: Detect one or more human faces in an image and get back face rectangles for where in the image the faces are, along with face attributes which contain machine learning-based predictions of facial features. The face attribute

features available are: Age, Emotion, Gender, Pose, Smile, and Facial Hair along with 27 landmarks for each face in the image.

References:

<https://docs.microsoft.com/en-us/azure/cognitive-services/speech-service/speech-to-text> <https://azure.microsoft.com/en-us/services/cognitive-services/face/>

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## QUESTION 5

You have an on-premises repository that contains 5,000 videos. The videos feature demonstrations of the products sold by your company.

The company's customers plan to search the videos by using the name of the product demonstrated in each video.

You need to build a custom search tool for the customers.

What should you do first?

- A. Deploy an Azure Media Services resource.
- B. Create an Azure Storage account and a blob container.
- C. Create an Azure Search resource.
- D. Deploy a Custom Vision API service.

Correct Answer: A

Azure Media Services can be used to encode and package content, stream videos on-demand, broadcast live, analyze your videos with Media Services v3.

You can analyze recorded videos or audio content. For example, to achieve higher customer satisfaction, organizations can extract speech-to-text and build search indexes and dashboards. Then, they can extract intelligence around common

complaints, sources of complaints, and other relevant data.

References:

<https://docs.microsoft.com/en-us/azure/media-services/latest/media-services-overview>

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