Microsoft

Exam Questions AI-100

Designing and Implementing an Azure AI Solution
NEW QUESTION 1  
- (Exam Topic 2)  
You are designing a solution that will ingest data from an Azure IoT Edge device, preprocess the data in Azure Machine Learning, and then move the data to Azure HDInsight for further processing.

What should you include in the solution? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
Box 1: Export Data
The Export data to Hive option in the Export Data module in Azure Machine Learning Studio. This option is useful when you are working with very large datasets, and want to save your machine learning experiment data to a Hadoop cluster or HDInsight distributed storage.

Box 2: Apache Hive
Apache Hive is a data warehouse system for Apache Hadoop. Hive enables data summarization, querying, and analysis of data. Hive queries are written in HiveQL, which is a query language similar to SQL.

Box 3: Azure Data Lake
Default storage for the HDFS file system of HDInsight clusters can be associated with either an Azure Storage account or an Azure Data Lake Storage.

References:
https://docs.microsoft.com/en-us/azure/hdinsight/hadoop/hdinsight-use-hive

NEW QUESTION 2  
- (Exam Topic 2)  
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have Azure IoT Edge devices that generate streaming data. On the devices, you need to detect anomalies in the data by using Azure Machine Learning models. Once an anomaly is detected, the devices must add information about the anomaly to the Azure IoT Hub stream. Solution: You expose a Machine Learning model as an Azure web service. Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:
Instead use Azure Stream Analytics and REST API.

Note: Available in both the cloud and Azure IoT Edge, Azure Stream Analytics offers built-in machine learning based anomaly detection capabilities that can be used to monitor the two most commonly occurring anomalies: temporary and persistent.

Stream Analytics supports user-defined functions, via REST API, that call out to Azure Machine Learning endpoints.

References:

NEW QUESTION 3  
- (Exam Topic 2)  
You need to build an API pipeline that analyzes streaming data. The pipeline will perform the following:

- Visual text recognition
- Audio transcription
- Sentiment analysis
- Face detection

Which Azure Cognitive Services should you use in the pipeline?

- A. Custom Speech Service
- B. Face API
- C. Text Analytics
- D. Video Indexer

Answer: D

Explanation:
Azure Video Indexer is a cloud application built on Azure Media Analytics, Azure Search, Cognitive Services (such as the Face API, Microsoft Translator, the Computer Vision API, and Custom Speech Service). It enables you to extract the insights from your videos using Video Indexer video and audio models described below:

- Visual text recognition (OCR): Extracts text that is visually displayed in the video.
- Audio transcription: Converts speech to text in 12 languages and allows extensions.
- Sentiment analysis: Identifies positive, negative, and neutral sentiments from speech and visual text.
- Face detection: Detects and groups faces appearing in the video.

References:

NEW QUESTION 4
- (Exam Topic 2)
Your company plans to implement an AI solution that will analyse data from IoT devices.
Data from the devices will be analysed in real-time. The results of the analysis will be stored in a SQL database.
You need to recommend a data processing solution that uses the Transact-SQL language. Which data processing solution should you recommend?

A. Azure Stream Analytics
B. SQL Server Integration Services (SSIS)
C. Azure Event Hubs
D. Azure Machine Learning

Answer: A

Explanation:
https://www.linkedin.com/pulse/getting-started-azure-iot-services-stream-analytics-rob-tiffany

NEW QUESTION 5
- (Exam Topic 2)
You need to build a solution to monitor Twitter. The solution must meet the following requirements:
• Send an email message to the marketing department when negative Twitter messages are detected.
• Run sentiment analysis on Twitter messages that mention specific tags.
• Use the least amount of custom code possible.
Which two services should you include in the solution? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

A. Azure Databricks
B. Azure Stream Analytics
C. Azure Functions
D. Azure Cognitive Services
E. Azure Logic Apps

Answer: BE

Explanation:
https://docs.microsoft.com/en-us/azure/stream-analytics/streaming-technologies

NEW QUESTION 6
- (Exam Topic 2)
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You are developing an application that uses an Azure Kubernetes Service (AKS) cluster. You are troubleshooting a node issue.
You need to connect to an AKS node by using SSH.
Solution: You create a managed identity for AKS, and then you create an SSH connection. Does this meet the goal?

A. Yes
B. No

Answer: B

Explanation:
https://docs.microsoft.com/en-us/azure/aks/ssh

NEW QUESTION 7
- (Exam Topic 2)
You need to build a sentiment analysis solution that will use input data from JSON documents and PDF documents. The JSON documents must be processed in batches and aggregated.
Which storage type should you use for each file type? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.
A. Mastered
B. Not Mastered

Answer: A

Explanation:

References:

NEW QUESTION 8
- (Exam Topic 2)
You need to build an A) solution that will be shared between several developers and customers. You plan to write code, host code, and document the runtime all within a single user experience. You build the environment to host the solution.
Which three actions should you perform in sequence next? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

A. Build an experiment.
B. Create an Azure Machine Learning Studio workspace.
C. Create a new experiment.
D. Create a new notebook.
E. Build a notebook.

Answer: A

Explanation:

Step 1: Create an Azure Machine Learning Studio workspace
Step 2: Create a notebook
You can manage notebooks using the UI, the CLI, and by invoking the Workspace API. To create a notebook
1. Click the Workspace button Workspace Icon or the Home button Home Icon in the sidebar. Do one of the following:
   - Next to any folder, click the Menu Dropdown on the right side of the text and select Create > Notebook. Create Notebook
   - In the Workspace or a user folder, click Down Caret and select Create > Notebook.
2. In the Create Notebook dialog, enter a name and select the notebook’s primary language.
3. If there are running clusters, the Cluster drop-down displays. Select the cluster to attach the notebook to.
4. Click Create.

Step 3: Create a new experiment
Create a new experiment by clicking +NEW at the bottom of the Machine Learning Studio window. Select EXPERIMENT > Blank Experiment.

References:

NEW QUESTION 9
- (Exam Topic 2)
You are designing an AI solution that will use IoT devices to gather data from conference attendees, and then later analyze the data. The IoT devices will connect to an Azure IoT hub.
You need to design a solution to anonymize the data before the data is sent to the IoT hub.
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

References:
A. Mastered
B. Not Mastered

Answer: A

**Explanation:**

**Scenario overview:**

ASA Edge jobs run in containers deployed to Azure IoT Edge devices. Step 2: Create an Azure Stream Analytics Edge Job

Azure Stream Analytics (ASA) on IoT Edge empowers developers to deploy near-real-time analytical intelligence closer to IoT devices so that they can unlock the full value of device-generated data.

Step 3: Add the job to the IoT devices in IoT

References:
https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-edge

**NEW QUESTION 10**

- (Exam Topic 2)
You design an AI solution that uses an Azure Stream Analytics job to process data from an Azure IoT hub. The IoT hub receives time series data from thousands of IoT devices at a factory.

The job outputs millions of messages per second. Different applications consume the messages as they are available. The messages must be purged. You need to choose an output type for the job.

What is the best output type to achieve the goal? More than one answer choice may achieve the goal.

A. Azure Event Hubs
B. Azure SQL Database
C. Azure Blob storage
D. Azure Cosmos DB

Answer: D

**Explanation:**

Stream Analytics can target Azure Cosmos DB for JSON output, enabling data archiving and low-latency queries on unstructured JSON data.

References:

**NEW QUESTION 11**

- (Exam Topic 2)
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You have Azure IoT Edge devices that generate streaming data.

On the devices, you need to detect anomalies in the data by using Azure Machine Learning models. Once an anomaly is detected, the devices must add information about the anomaly to the Azure IoT Hub stream.

Solution: You deploy Azure Stream Analytics as an IoT Edge module. Does this meet the goal?

A. Yes
NEW QUESTION 12  
- (Exam Topic 2)  
You have an Azure Machine Learning experiment that must comply with GDPR regulations. You need to track compliance of the experiment and store documentation about the experiment. What should you use?  
A. Azure Table storage  
B. Azure Security Center  
C. an Azure Log Analytics workspace 
D. Compliance Manager 

Answer: D  

Explanation:  
References:  

NEW QUESTION 13  
- (Exam Topic 2)  
Your company has recently deployed 5,000 Internet-connected sensors for a planned AI solution. You need to recommend a computing solution to perform a real-time analysis of the data generated by the sensors. Which computing solution should you recommend?  
A. an Azure HDInsight Storm cluster  
B. Azure Notification Hubs  
C. an Azure HDInsight Hadoop cluster  
D. an Azure HDInsight R cluster 

Answer: C  

Explanation:  
Azure HDInsight makes it easy, fast, and cost-effective to process massive amounts of data. You can use HDInsight to process streaming data that's received in real time from a variety of devices. References:  

NEW QUESTION 14  
- (Exam Topic 2)  
You plan to deploy an AI solution that tracks the behavior of 10 custom mobile apps. Each mobile app has several thousand users. You need to recommend a solution for real-time data ingestion for the data originating from the mobile app users. Which Microsoft Azure service should you include in the recommendation?  
A. Azure Event Hubs  
B. Azure Service Bus queues  
C. Azure Service Bus topics and subscriptions  
D. Apache Storm on Azure HDInsight 

Answer: A  

Explanation:  
References:  
https://docs.microsoft.com/en-in/azure/event-hubs/event-hubs-about  

NEW QUESTION 15  
- (Exam Topic 2)  
Your company recently deployed several hardware devices that contain sensors. The sensors generate new data on an hourly basis. The data generated is stored on-premises and retained for several years. During the past two months, the sensors generated 300 GB of data. You plan to move the data to Azure and then perform advanced analytics on the data. You need to recommend an Azure storage solution for the data. Which storage solution should you recommend?  
A. Azure Queue storage  
B. Azure Cosmos DB  
C. Azure Blob storage  
D. Azure SQL Database 

Answer: C  

Explanation:  
References:  

NEW QUESTION 16
- (Exam Topic 2)
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After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You create several AI models in Azure Machine Learning Studio. You deploy the models to a production environment.
You need to monitor the compute performance of the models. Solution: You create environment files.
Does this meet the goal?
A. Yes
B. No

Answer: B

Explanation:
You need to enable Model data collection. References:

NEW QUESTION 17
- (Exam Topic 2)
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You create several AI models in Azure Machine Learning Studio. You deploy the models to a production environment.
You need to monitor the compute performance of the models. Solution: You enable Application Insights diagnostics.
Does this meet the goal?
A. Yes
B. No

Answer: B

Explanation:
You need to enable Model data collection. References:

NEW QUESTION 18
- (Exam Topic 2)
You are designing an AI solution that will analyze media data. The data will be stored in Azure Blob storage. You need to ensure that the storage account is encrypted by using a key generated by the hardware security module (HSM) of your company.
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
References:
https://docs.microsoft.com/en-us/azure/key-vault/key-vault-hsm-protected-keys

NEW QUESTION 19
- (Exam Topic 2)
You plan to deploy an application that will perform image recognition. The application will store image data in two Azure Blob storage stores named Blob1 and Blob2. You need to recommend a security solution that meets the following requirements:
• Access to Blob1 must be controlled by a using a role.
• Access to Blob2 must be time-limited and constrained to specific operations.

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What should you recommend using to control access to each blob store? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

A. Mastered  
B. Not Mastered

Answer: A

Explanation:
References:  
https://docs.microsoft.com/en-us/azure/storage/common/storage-auth

NEW QUESTION 20
- (Exam Topic 2)
You plan to deploy an Azure Data Factory pipeline that will perform the following:  
- Move data from on-premises to the cloud.  
- Consume Azure Cognitive Services APIs.

You need to recommend which technologies the pipeline should use. The solution must minimize custom code.
What should you include in the recommendation? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Move data from on-premises to the cloud:

- Azure-SSIS Integration Runtime
- Common language runtime (CLR)
- Integration Runtime (IR)
- Self-hosted Integration runtime

Consume Cognitive Services APIs:

- Azure API Management
- Azure Logic Apps
- WebJobs in Azure

A. Mastered  
B. Not Mastered

Answer: A

Explanation:
Box 1: Self-hosted Integration Runtime  
A self-hosted IR is capable of running copy activity between a cloud data stores and a data store in private network.
Not Azure-SSIS Integration Runtime, as you would need to write custom code. Box 2: Azure Logic Apps  
Azure Logic Apps helps you orchestrate and integrate different services by providing 100+ ready-to-use connectors, ranging from on-premises SQL Server or SAP to Microsoft Cognitive Services.
Incorrect:  
Not Azure API Management: Use Azure API Management as a turnkey solution for publishing APIs to external and internal customers.
References:  
https://docs.microsoft.com/en-us/azure/data-factory/concepts-integration-runtime  

NEW QUESTION 21
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