

## AI-100 Dumps

### Designing and Implementing an Azure AI Solution

<https://www.certleader.com/AI-100-dumps.html>



**NEW QUESTION 1**

- (Exam Topic 1)

Which RBAC role should you assign to the KeyManagers group?

- A. Cognitive Services Contributor
- B. Security Manager
- C. Cognitive Services User
- D. Security Administrator

**Answer:** A

**Explanation:**

References:

<https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles>

**NEW QUESTION 2**

- (Exam Topic 1)

Which two services should be implemented so that Butler can find available rooms based on the technical requirements? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. QnA Maker
- B. Bing Entity Search
- C. Language Understanding (LUIS)
- D. Azure Search
- E. Content Moderator

**Answer:** AC

**Explanation:**

References:

<https://azure.microsoft.com/en-in/services/cognitive-services/language-understanding-intelligent-service/>

**NEW QUESTION 3**

- (Exam Topic 2)

You are developing a Computer Vision application.

You plan to use a workflow that will load data from an on-premises database to Azure Blob storage, and then connect to an Azure Machine Learning service.

What should you use to orchestrate the workflow?

- A. Azure Kubernetes Service (AKS)
- B. Azure Pipelines
- C. Azure Data Factory
- D. Azure Container Instances

**Answer:** C

**Explanation:**

With Azure Data Factory you can use workflows to orchestrate data integration and data transformation processes at scale.

Build data integration, and easily transform and integrate big data processing and machine learning with the visual interface. References:

<https://azure.microsoft.com/en-us/services/data-factory/>

**NEW QUESTION 4**

- (Exam Topic 2)

Your company plans to deploy an AI solution that processes IoT data in real-time.

You need to recommend a solution for the planned deployment that meets the following requirements: Sustain up to 50 Mbps of events without throttling.

Retain data for 60 days.

What should you recommend?

- A. Apache Kafka
- B. Microsoft Azure IoT Hub
- C. Microsoft Azure Data Factory
- D. Microsoft Azure Machine Learning

**Answer:** A

**Explanation:**

Apache Kafka is an open-source distributed streaming platform that can be used to build real-time streaming data pipelines and applications.

References:

<https://docs.microsoft.com/en-us/azure/hdinsight/kafka/apache-kafka-introduction>

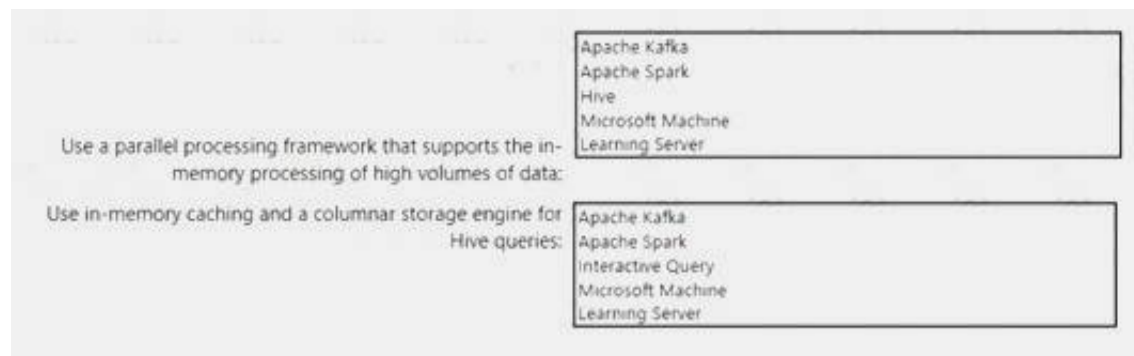
**NEW QUESTION 5**

- (Exam Topic 2)

You are designing an AI solution that must meet the following processing requirements:

- Use a parallel processing framework that supports the in-memory processing of high volumes of data.
- Use in-memory caching and a columnar storage engine for Apache Hive queries.

What should you use to meet each requirement? 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: Apache Spark

Apache Spark is a parallel processing framework that supports in-memory processing to boost the performance of big-data analytic applications. Apache Spark in Azure HDInsight is the Microsoft implementation of Apache Spark in the cloud.

Box 2: Interactive Query

Interactive Query provides In-memory caching and improved columnar storage engine for Hive queries. References:

<https://docs.microsoft.com/en-us/azure/hdinsight/spark/apache-spark-overview> <https://docs.microsoft.com/bs-latn-ba/azure/hdinsight/interactive-query/apache-interactive-query-get-started>

**NEW QUESTION 6**

- (Exam Topic 2)

You are developing a mobile application that will perform optical character recognition (OCR) from photos. The application will annotate the photos by using metadata, store the photos in Azure Blob storage, and then score the photos by using an Azure Machine Learning model.

What should you use to process the data?

- A. Azure Event Hubs  
B. Azure Functions  
C. Azure Stream Analytics  
D. Azure Logic Apps

**Answer:** A

**NEW QUESTION 7**

- (Exam Topic 2)

You have an Azure Machine Learning model that is deployed to a web service. You plan to publish the web service by using the name ml.contoso.com.

You need to recommend a solution to ensure that access to the web service is encrypted. Which three actions should you recommend? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Generate a shared access signature (SAS)  
B. Obtain an SSL certificate  
C. Add a deployment slot  
D. Update the web service  
E. Update DNS  
F. Create an Azure Key Vault

**Answer:** BDE

**Explanation:**

The process of securing a new web service or an existing one is as follows:

1. Get a domain name.
2. Get a digital certificate.
3. Deploy or update the web service with the SSL setting enabled.
4. Update your DNS to point to the web service.

Note: To deploy (or re-deploy) the service with SSL enabled, set the `ssl_enabled` parameter to True, wherever applicable. Set the `ssl_certificate` parameter to the value of the certificate file and the `ssl_key` to the value of

the key file. References:

<https://docs.microsoft.com/en-us/azure/machine-learning/service/how-to-secure-web-service>

**NEW QUESTION 8**

- (Exam Topic 2)

You have Azure IoT Edge devices that generate measurement data from temperature sensors. The data changes very slowly.

You need to analyze the data in a temporal two-minute window. If the temperature rises five degrees above a limit, an alert must be raised. The solution must minimize the development of custom code.

What should you use?

- A. A Machine Learning model as a web service  
B. an Azure Machine Learning model as an IoT Edge module  
C. Azure Stream Analytics as an IoT Edge module  
D. Azure Functions as an IoT Edge module

**Answer:** C

**Explanation:**

References:

<https://docs.microsoft.com/en-us/azure/iot-edge/tutorial-deploy-stream-analytics>**NEW QUESTION 9**

- (Exam Topic 2)

You are building an Azure Analysis Services cube for your AI deployment.

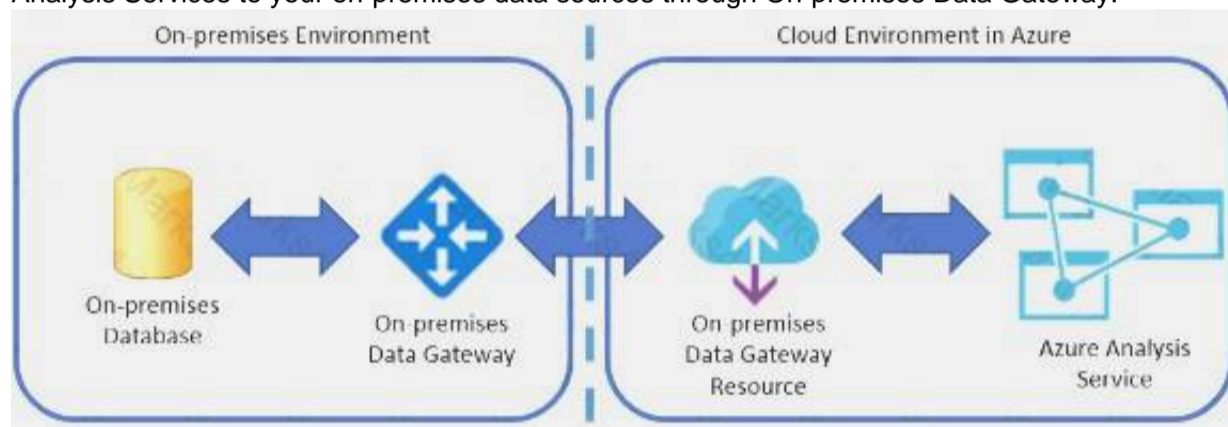
The source data for the cube is located in an on premises network in a Microsoft SQL Server database. You need to ensure that the Azure Analysis Services service can access the source data.

What should you deploy to your Azure subscription?

- A. a site-to-site VPN
- B. a network gateway
- C. a data gateway
- D. Azure Data Factory

**Answer: C****Explanation:**

From April 2017 onward we can use On-premises Data Gateway for Azure Analysis Services. This means you can connect your Tabular Models hosted in Azure Analysis Services to your on-premises data sources through On-premises Data Gateway.



References:

<https://biinsight.com/on-premises-data-gateway-for-azure-analysis-services/>**NEW QUESTION 10**

- (Exam Topic 2)

You plan to implement a new data warehouse for a planned AI solution. You have the following information regarding the data warehouse:

- The data files will be available in one week.
- Most queries that will be executed against the data warehouse will be ad-hoc queries.
- The schemas of data files that will be loaded to the data warehouse will change often.
- One month after the planned implementation, the data warehouse will contain 15 TB of data. You need to recommend a database solution to support the planned implementation.

What two solutions should you include in the recommendation? Each correct answer is a complete solution. NOTE: Each correct selection is worth one point.

- A. Apache Hadoop
- B. Apache Spark
- C. a Microsoft Azure SQL database
- D. an Azure virtual machine that runs Microsoft SQL Server

**Answer: AB****NEW QUESTION 10**

- (Exam Topic 2)

You use an Azure key vault to store credentials for several Azure Machine Learning applications. You need to configure the key vault to meet the following requirements:

- ▶ Ensure that the IT security team can add new passwords and periodically change the passwords.
- ▶ Ensure that the applications can securely retrieve the passwords for the applications.
- ▶ Use the principle of least privilege.

Which permissions should you grant? To answer, drag the appropriate permissions to the correct targets. Each permission may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Actions	Answer Area
Keys: create	IT security team: Permission
Keys: get	
Keys: list	Applications: Permission
Secrets: all	
Secrets: get	
Secrets: list	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions	Answer Area
Keys: create	IT security team: Secrets: all
Keys: get	
Keys: list	Applications: Secrets: get
Secrets: all	
Secrets: get	
Secrets: list	

NEW QUESTION 11

- (Exam Topic 2)

You create an Azure Machine Learning Studio experiment.

You plan to publish the experiment as a Machine Learning Web service.

You need to ensure that you can consume the web service from Microsoft Excel spreadsheets. What should you use?

- A. a Batch Execution Service (BES) and an Azure managed identity
- B. a Request-Response Service (RRS) and an Azure managed identity
- C. a Request-Response Service (RRS) and an API key
- D. a Batch Execution Service (BES) and an API key

Answer: C

Explanation:

Steps to Add a New web service

1. Deploy a web service or use an existing Web service.
2. Click Consume.
3. Look for the Basic consumption info section. Copy and save the Primary Key and the Request-Response URL.
4. In Excel, go to the Web Services section (if you are in the Predict section, click the back arrow to go to the list of web services).
5. Click Add Web Service.
6. Paste the URL into the Excel add-in text box labeled URL.
7. Paste the API/Primary key into the text box labeled API key.
8. Click Add.

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio/excel-add-in-for-web-services>

NEW QUESTION 16

- (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.

Actions	Answer Area
Add the job to the IoT devices in IoT hub	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <span>⬅</span> <span>➡</span> </div> <div style="text-align: center;"> <span>⬆</span> <span>⬇</span> </div> </div>
Create an Azure Stream Analytics Edge job	
Create an Azure Stream Analytics Cloud job	
Create a storage container	
Create a storage queue	

- A. Mastered  
B. Not Mastered

**Answer: A**

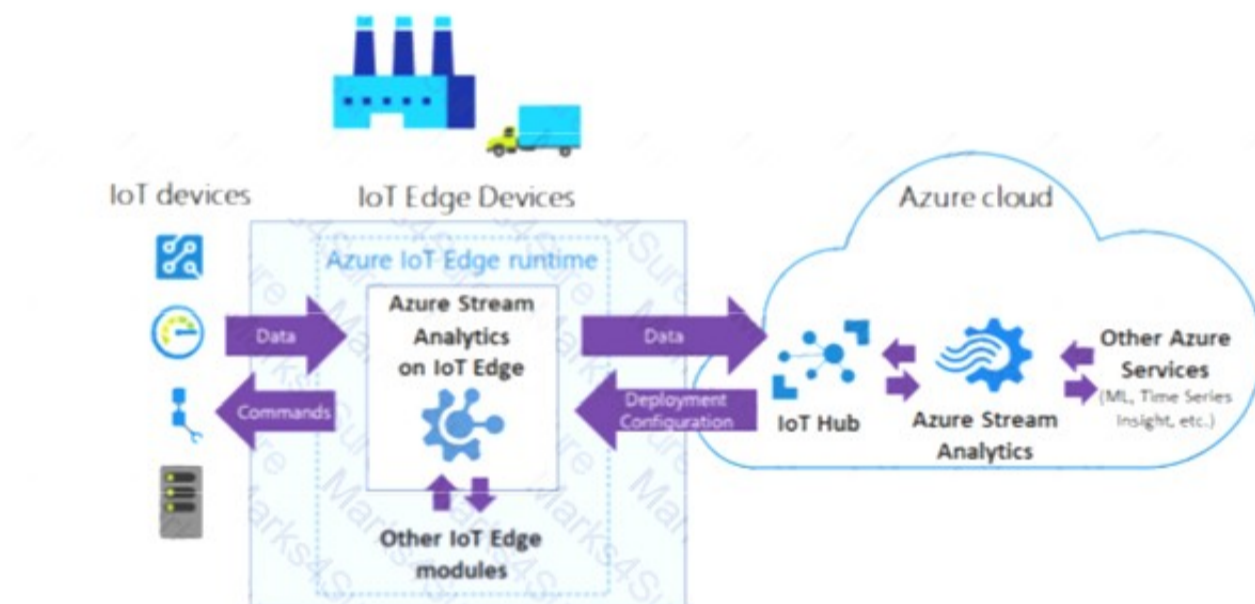
**Explanation:**

Step 1: Create a storage container

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.

Scenario overview:



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 17**

- (Exam Topic 2)

You create an Azure Cognitive Services resource.

You develop needs to be able to retrieve the keys used by the resource. The solution must use the principle of least privilege.

What is the best role to assign to the developer? More than one answer choice may achieve the goal.

- A. Security Manager  
B. Security Reader  
C. Cognitive Services Contributor  
D. Cognitive Services User

**Answer: D**

**Explanation:**

The Cognitive Services User lets you read and list keys of Cognitive Services. References:

<https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles>

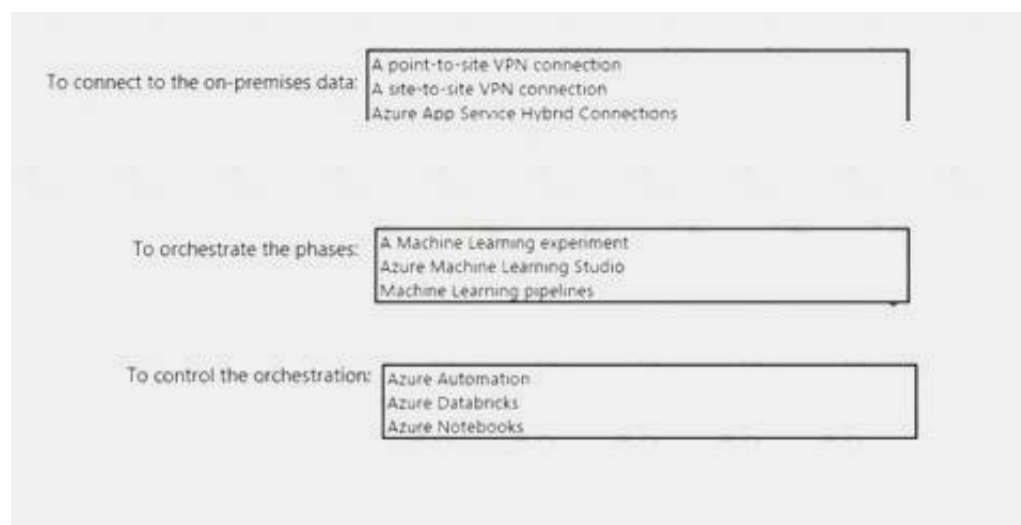
**NEW QUESTION 21**

- (Exam Topic 2)

You are designing an Azure infrastructure to support an Azure Machine Learning solution that will have multiple phases. The solution must meet the following requirements:

- Securely query an on-premises database once a week to update product lists.
- Access the data without using a gateway.
- Orchestrate the separate phases.

What should you use? 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: Azure App Service Hybrid Connections

With Hybrid Connections, Azure websites and mobile services can access on-premises resources as if they were located on the same private network. Application admins thus have the flexibility to simply lift-and-shift specific most front-end tiers to Azure with minimal configuration changes, extending their enterprise apps for hybrid scenarios.

Incorrect Option: The VPN connection solution both use gateways. Box 2: Machine Learning pipelines

Typically when running machine learning algorithms, it involves a sequence of tasks including pre-processing, feature extraction, model fitting, and validation stages. For example, when classifying text documents might involve text segmentation and cleaning, extracting features, and training a classification model with cross-validation. Though there are many libraries we can use for each stage, connecting the dots is not as easy as it may look, especially with large-scale datasets. Most ML libraries are not designed for distributed computation or they do not provide native support for pipeline creation and tuning.

Box 3: Azure Databricks References:

<https://azure.microsoft.com/is-is/blog/hybrid-connections-preview/> <https://databricks.com/glossary/what-are-ml-pipelines>

**NEW QUESTION 22**

- (Exam Topic 2)

Your company recently purchased several hundred hardware devices that contains sensors.

You need to recommend a solution to process the sensor data. The solution must provide the ability to write back configuration changes to the devices.

What should you include in the recommendation?

- A. Microsoft Azure IoT Hub  
B. API apps in Microsoft Azure App Service  
C. Microsoft Azure Event Hubs  
D. Microsoft Azure Notification Hubs

**Answer:** A

**Explanation:**

References:

<https://azure.microsoft.com/en-us/resources/samples/functions-js-iot-hub-processing/>

**NEW QUESTION 25**

- (Exam Topic 2)

You are designing an AI application that will use an Azure Machine Learning Studio experiment. The source data contains more than 200 TB of relational tables. The experiment will run once a month. You need to identify a data storage solution for the application. The solution must minimize compute costs. Which data storage solution should you identify?

- A. Azure Database for MySQL  
B. Azure SQL Database  
C. Azure SQL Data Warehouse

**Answer:** B

**Explanation:**

References:

<https://azure.microsoft.com/en-us/pricing/details/sql-database/single/>

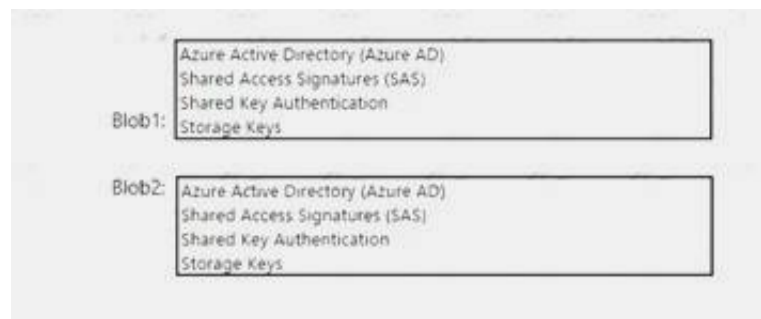
**NEW QUESTION 30**

- (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.

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 34

- (Exam Topic 2)

You have a container image that contains an AI solution. The solution will be used on demand and will only be needed a few hours each month.

You plan to use Azure Functions to deploy the environment on-demand.

You need to recommend the deployment process. The solution must minimize costs.

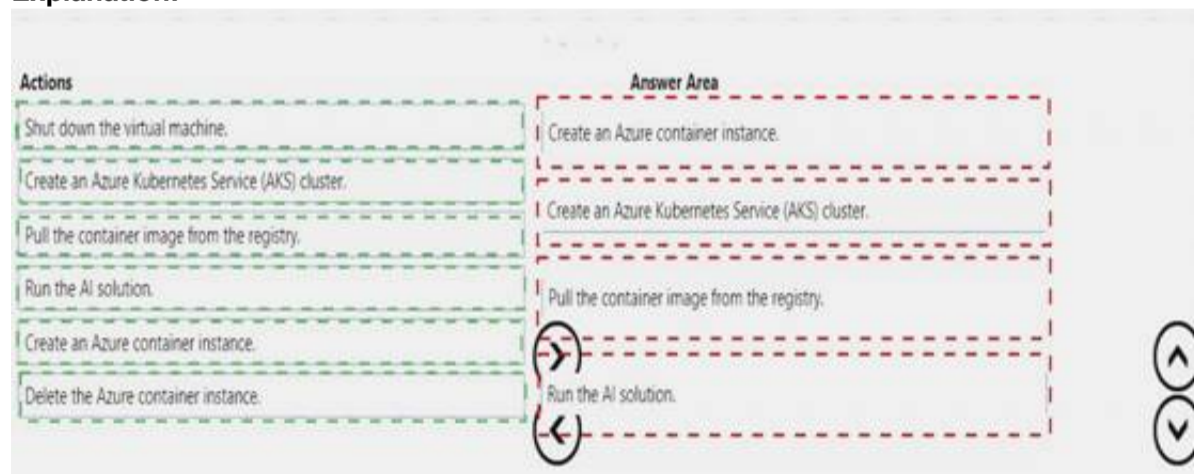
Which four actions should you recommend Azure Functions perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 37

- (Exam Topic 2)

You need to build an interactive website that will accept uploaded images, and then ask a series of predefined questions based on each image.

Which services should you use? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Dynamically ask questions based on an uploaded image:

	▼
Azure Analysis Services	
Azure Bot Service	
Azure Data Factory	
Azure Linguistic Analysis API	

Analyze and classify an image:

	▼
Bing Image Search	
Bing Visual Search	
Computer Vision	
Video Indexer	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Azure Bot Service

Box 2: Computer Vision

The Computer Vision Analyze an image feature, returns information about visual content found in an image. Use tagging, domain-specific models, and descriptions in four languages to identify content and label it with confidence. Use Object Detection to get location of thousands of objects within an image. Apply the adult/racy settings to help you detect potential adult content. Identify image types and color schemes in pictures.

References:

<https://azure.microsoft.com/en-us/services/cognitive-services/computer-vision/>

**NEW QUESTION 40**

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