

**AI-100.56q**

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**AI-100**



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### **Designing and Implementing an Azure AI Solution**

#### **Question Set 1**

#### **QUESTION 1**

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.



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- 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

**Correct Answer:** BDE

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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>

## QUESTION 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

**Correct Answer: C**

**Section: [none]**

**Explanation**

**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/data-storage>

## QUESTION 3

You plan to design an application that will use data from Azure Data Lake and perform sentiment analysis by using Azure Machine Learning algorithms.

The developers of the application use a mix of Windows- and Linux-based environments. The developers contribute to shared GitHub repositories.

You need all the developers to use the same tool to develop the application.

What is the best tool to use? More than one answer choice may achieve the goal.

- A. Microsoft Visual Studio Code



- B. Azure Notebooks
- C. Azure Machine Learning Studio
- D. Microsoft Visual Studio

**Correct Answer:** C

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References: <https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/machine-learning/studio/algorithm-choice.md>

#### QUESTION 4

You have several AI applications that use an Azure Kubernetes Service (AKS) cluster. The cluster supports a maximum of 32 nodes.

You discover that occasionally and unpredictably, the application requires more than 32 nodes.

You need to recommend a solution to handle the unpredictable application load.

Which scaling method should you recommend?

- A. horizontal pod autoscaler
- B. cluster autoscaler
- C. manual scaling
- D. Azure Container Instances

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Explanation:

To keep up with application demands in Azure Kubernetes Service (AKS), you may need to adjust the number of nodes that run your workloads. The cluster autoscaler component can watch for pods in your cluster that can't be scheduled because of resource constraints. When issues are detected, the number of nodes is increased to meet the application demand. Nodes are also regularly checked for a lack of running pods, with the number of nodes then decreased as needed. This ability to automatically scale up or down the number of nodes in your AKS cluster lets you run an efficient, cost-effective cluster.

References:

<https://docs.microsoft.com/en-us/azure/aks/cluster-autoscaler>

### QUESTION 5

You deploy an infrastructure for a big data workload.

You need to run Azure HDInsight and Microsoft Machine Learning Server. You plan to set the RevoScaleR compute contexts to run `rx` function calls in parallel.

What are three compute contexts that you can use for Machine Learning Server? Each correct answer presents a complete solution.

**NOTE:** Each correct selection is worth one point.

- A. SQL
- B. Spark
- C. local parallel
- D. HBase
- E. local sequential

**Correct Answer:** ABC

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Explanation:

Remote computing is available for specific data sources on selected platforms. The following tables document the supported combinations.

- RxInSqlServer, sqlserver: Remote compute context. Target server is a single database node (SQL Server 2016 R Services or SQL Server 2017 Machine Learning Services). Computation is parallel, but not distributed.
- RxSpark, spark: Remote compute context. Target is a Spark cluster on Hadoop.
- RxLocalParallel, localpar: Compute context is often used to enable controlled, distributed computations relying on instructions you provide rather than a built-in scheduler on Hadoop. You can use compute context for manual distributed computing.

References: <https://docs.microsoft.com/en-us/machine-learning-server/r/concept-what-is-compute-context>

### QUESTION 6

Your company has 1,000 AI developers who are responsible for provisioning environments in Azure.

You need to control the type, size, and location of the resources that the developers can provision.

What should you use?

- A. Azure Key Vault

- B. Azure service principals
- C. Azure managed identities
- D. Azure Security Center
- E. Azure Policy

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Explanation:

When an application needs access to deploy or configure resources through Azure Resource Manager in Azure Stack, you create a service principal, which is a credential for your application. You can then delegate only the necessary permissions to that service principal.

References: <https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-create-service-principals>

#### **QUESTION 7**

You have a solution that runs on a five-node Azure Kubernetes Service (AKS) cluster. The cluster uses an N-series virtual machine.

An Azure Batch AI process runs once a day and rarely on demand.

You need to recommend a solution to maintain the cluster configuration when the cluster is not in use. The solution must not incur any compute costs.

What should you include in the recommendation?

- A. Downscale the cluster to one node
- B. Downscale the cluster to zero nodes
- C. Delete the cluster

**Correct Answer:** A

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Explanation:

An AKS cluster has one or more nodes.

References: <https://docs.microsoft.com/en-us/azure/aks/concepts-clusters-workloads> **QUESTION 8**

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

**Correct Answer: C**

**Section: [none]**

**Explanation**

**Explanation/Reference:**

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

### **QUESTION 9**

You deploy an application that performs sentiment analysis on the data stored in Azure Cosmos DB.

Recently, you loaded a large amount of data to the database. The data was for a customer named Contoso, Ltd.

You discover that queries for the Contoso data are slow to complete, and the queries slow the entire application.

You need to reduce the amount of time it takes for the queries to complete. The solution must minimize costs.

What is the best way to achieve the goal? More than one answer choice may achieve the goal. Select the **BEST** answer.

- A. Change the request units.
- B. Change the partitioning strategy.
- C. Change the transaction isolation level.

D. Migrate the data to the Cosmos DB database.

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References:

<https://docs.microsoft.com/en-us/azure/architecture/best-practices/data-partitioning>

### QUESTION 10

You have an AI application that uses keys in Azure Key Vault.

Recently, a key used by the application was deleted accidentally and was unrecoverable.

You need to ensure that if a key is deleted, it is retained in the key vault for 90 days.

Which two features should you configure? Each correct answer presents part of the solution.

**NOTE:** Each correct selection is worth one point.

- A. The expiration date on the keys
- B. Soft delete
- C. Purge protection
- D. Auditors
- E. The activation date on the keys



**Correct Answer:** BC

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References:

<https://docs.microsoft.com/en-us/azure/architecture/best-practices/data-partitioning>

### QUESTION 11

DRAG DROP

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.

**Select and Place:**

Actions	Answer Area
Enable encryption that uses customer-managed keys.	
Upload a key to an Azure key vault.	
Generate an encryption key.	
Generate an access key.	
Configure a service endpoint for the storage account.	
Generate a shared access signature (SAS).	



**Correct Answer:**

Actions	Answer Area
Enable encryption that uses customer-managed keys.	Configure a service endpoint for the storage account.
Upload a key to an Azure key vault.	Generate an encryption key.
Generate an encryption key.	Enable encryption that uses customer-managed keys.
Generate an access key.	
Configure a service endpoint for the storage account.	
Generate a shared access signature (SAS).	

Navigation icons: Right arrow, Left arrow, Up arrow, Down arrow.

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-encryption-keys-portal>

<https://docs.microsoft.com/en-us/azure/key-vault/key-vault-hsm-protected-keys> **QUESTION 12**

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



**Correct Answer:** C

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/azure/sql-database/saas-multitenantdb-adhoc-reporting>

### **QUESTION 13**

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

**Correct Answer:** BE

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/azure/stream-analytics/streaming-technologies>  
<https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-twitter-sentiment-analysis-trends>

#### **QUESTION 14**

You plan to build an application that will perform predictive analytics. Users will be able to consume the application data by using Microsoft Power BI or a custom website.

You need to ensure that you can audit application usage.

Which auditing solution should you use?

- A. Azure Storage Analytics
- B. Azure Application Insights
- C. Azure diagnostics logs
- D. Azure Active Directory (Azure AD) reporting

**Correct Answer:** D

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/azure/active-directory/reports-monitoring/concept-audit-logs>

**QUESTION 15**

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

**Correct Answer:** A

**Section:** [none]

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

You create an Azure Cognitive Services resource.

A data scientist needs to call the resource from Azure Logic Apps by using the generic HTTP connector.

Which two values should you provide to the data scientist? Each correct answer presents part of the solution.

**NOTE:** Each correct selection is worth one point.

- A. Endpoint URL
- B. Resource name
- C. Access key
- D. Resource group name
- E. Subscription ID

**Correct Answer:** DE

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References:

<https://social.technet.microsoft.com/wiki/contents/articles/36074.logic-apps-with-azure-cognitive-service.aspx>



## Question Set 1

### QUESTION 1

**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 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

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Explanation:

Instead add an SSH key to the node, and then you create an SSH connection.

References: <https://docs.microsoft.com/en-us/azure/aks/ssh>

### QUESTION 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 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 change the permissions of the AKS resource group, and then you create an SSH connection.

Does this meet the goal?

- A. Yes
- B. No

**Correct Answer: B**

**Section: [none]**

**Explanation**

**Explanation/Reference:**

Explanation:

Instead add an SSH key to the node, and then you create an SSH connection.

References: <https://docs.microsoft.com/en-us/azure/aks/ssh>



### QUESTION 3

**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 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 add an SSH key to the node, and then you create an SSH connection.

Does this meet the goal?

- A. Yes
- B. No



**Correct Answer:** A

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Explanation:

By default, SSH keys are generated when you create an AKS cluster. If you did not specify your own SSH keys when you created your AKS cluster, add your public SSH keys to the AKS nodes.

You also need to create an SSH connection to the AKS node.

References: <https://docs.microsoft.com/en-us/azure/aks/ssh>

#### **QUESTION 4**

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



**Correct Answer:** C

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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/>

#### **QUESTION 5**

DRAG DROP

You need to build an AI 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.

**Select and Place:**

Actions	Answer Area
Create stream inputs and outputs	
Create a new experiment	
Build an experiment	
Build a notebook	
Create an Azure Machine Learning Studio workspace	
Create a new notebook	
Implement Transact-SQL for the stream query	
Create an Azure Stream Analytics service	



**Correct Answer:**

### Actions

Create stream inputs and outputs
Create a new experiment
Build an experiment
Build a notebook
Create an Azure Machine Learning Studio workspace
Create a new notebook
Implement Transact-SQL for the stream query
Create an Azure Stream Analytics service

### Answer Area

Create an Azure Machine Learning Studio workspace
Create a new notebook
Create a new experiment

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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: <https://docs.azuredatabricks.net/user-guide/notebooks/notebook-manage.html>

<https://docs.microsoft.com/en-us/azure/machine-learning/service/quickstart-run-cloud-notebook>

#### QUESTION 6

Your company has a data team of Transact-SQL experts.

You plan to ingest data from multiple sources into Azure Event Hubs.

You need to recommend which technology the data team should use to move and query data from Event Hubs to Azure Storage. The solution must leverage the data team's existing skills.

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

- A. Azure Notification Hubs
- B. Azure Event Grid
- C. Apache Kafka streams
- D. Azure Stream Analytics

**Correct Answer: B**

**Section: [none]**

**Explanation**

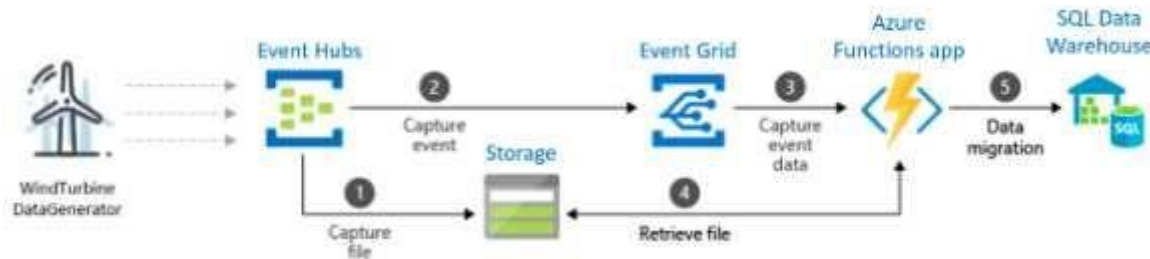
**Explanation/Reference:**

Explanation:

Event Hubs Capture is the easiest way to automatically deliver streamed data in Event Hubs to an Azure Blob storage or Azure Data Lake store. You can subsequently process and deliver the data to any other storage destinations of your choice, such as SQL Data Warehouse or Cosmos DB.

You to capture data from your event hub into a SQL data warehouse by using an Azure function triggered by an event grid.

Example:



First, you create an event hub with the Capture feature enabled and set an Azure blob storage as the destination. Data generated by WindTurbineGenerator is streamed into the event hub and is automatically captured into Azure Storage as Avro files.

Next, you create an Azure Event Grid subscription with the Event Hubs namespace as its source and the Azure Function endpoint as its destination.

Whenever a new Avro file is delivered to the Azure Storage blob by the Event Hubs Capture feature, Event Grid notifies the Azure Function with the blob URI. The Function then migrates data from the blob to a SQL data warehouse.

References: <https://docs.microsoft.com/en-us/azure/event-hubs/store-captured-data-data-warehouse>

### QUESTION 7

You plan to design a solution for an AI implementation that uses data from IoT devices.

You need to recommend a data storage solution for the IoT devices that meets the following requirements:

- Allow data to be queried in real-time as it streams into the solution.
- Provide the lowest amount of latency for loading data into the solution.

What should you include in the recommendation?

- A. a Microsoft Azure Table Storage solution
- B. a Microsoft Azure HDInsight R Server cluster
- C. a Microsoft Azure HDInsight Hadoop cluster
- D. a Microsoft Azure SQL database that has In-Memory OLTP enabled

**Correct Answer: C**

**Section: [none]**

**Explanation**

**Explanation/Reference:**

Explanation:

You can use HDInsight to process streaming data that's received in real time from a variety of devices.

Internet of Things (IoT)

You can use HDInsight to build applications that extract critical insights from data. You can also use Azure Machine Learning on top of that to predict future trends for your business.

By combining enterprise-scale R analytics software with the power of Apache Hadoop and Apache Spark, Microsoft R Server for HDInsight gives you the scale and performance you need. Multi-threaded math libraries and transparent parallelization in R Server handle up to 1000x more data and up to 50x faster speeds than open-source R, which helps you to train more accurate models for better predictions.

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

### **QUESTION 8**

Your company has factories in 10 countries. Each factory contains several thousand IoT devices.

The devices present status and trending data on a dashboard.

You need to ingest the data from the IoT devices into a data warehouse.

Which two Microsoft Azure technologies should you use? Each correct answer presents part of the solution.

**NOTE:** Each correct selection is worth one point.

- A. Azure Stream Analytics
- B. Azure Data Factory
- C. an Azure HDInsight cluster
- D. Azure Batch
- E. Azure Data Lake

**Correct Answer:** CE

**Section: [none]**

**Explanation**

**Explanation/Reference:**

Explanation:

With Azure Data Lake Store (ADLS) serving as the hyper-scale storage layer and HDInsight serving as the Hadoop-based compute engine services. It can be used for prepping large amounts of data for insertion into a Data Warehouse

References:

<https://www.blue-granite.com/blog/azure-data-lake-analytics-holds-a-unique-spot-in-the-modern-data-architecture>

### QUESTION 9

You are designing an AI workflow that will aggregate data stored in Azure as JSON documents.

You expect to store more than 2 TB of new data daily.

You need to choose the data storage service for the data. The solution must minimize costs.

Which data storage service should you choose?

- A. Azure Manage Disks
- B. Azure Blob Storage
- C. Azure File Storage
- D. Azure Data Lake Storage



**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Explanation:

Generally, Data Lake will be a bit more expensive although they are in close range of each other. Blob storage has more options for pricing depending upon things like how frequently you need to access your data (cold vs hot storage). Data Lake is priced on volume, so it will go up as you reach certain tiers of volume.

References: <http://blog.pragmaticworks.com/azure-data-lake-vs-azure-blob-storage-in-data-warehousing>

### QUESTION 10

**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 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 run the kubectl command, and then you create an SSH connection.

Does this meet the goal?

- A. Yes
- B. No

**Correct Answer: B**

**Section: [none]**

**Explanation**

**Explanation/Reference:**

#### QUESTION 11

Your company has a data team of Scala and R experts.

You plan to ingest data from multiple Apache Kafka streams.

You need to recommend a processing technology to broker messages at scale from Kafka streams to Azure Storage.

What should you recommend?

- A. Azure Databricks
- B. Azure Functions
- C. Azure HDInsight with Apache Storm
- D. Azure HDInsight with Microsoft Machine Learning Server

**Correct Answer: C**

**Section: [none]**

**Explanation**

**Explanation/Reference:**





References: <https://docs.microsoft.com/en-us/azure/hdinsight/hdinsight-streaming-at-scale-overview?toc=https%3A%2F%2Fdocs.microsoft.com%2Fen-us%2Fazure%2Fhdinsight%2Fhadoop%2FTOC.json&bc=https%3A%2F%2Fdocs.microsoft.com%2Fen-us%2Fazure%2Fbread%2Ftoc.json>

### QUESTION 12

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

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References:

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



## Testlet 2

### Overview

Contoso, Ltd. has an office in New York to serve its North American customers and an office in Paris to serve its European customers.

### Existing Environment

#### Infrastructure

Each office has a small data center that hosts Active Directory services and a few off-the-shelf software solutions used by internal users.

The network contains a single Active Directory forest that contains a single domain named contoso.com. Azure Active Directory (Azure AD) Connect is used to extend identity management to Azure.

The company has an Azure subscription. Each office has an Azure ExpressRoute connection to the subscription. The New York office connects to a virtual network hosted in the US East 2 Azure region. The Paris office connects to a virtual network hosted in the West Europe Azure region.

The New York office has an Azure Stack Development Kit (ASDK) deployment that is used for development and testing.

#### Current Business Model

Contoso has a web app named Bookings hosted in an App Service Environment (ASE). The ASE is in the virtual network in the East US 2 region. Contoso employees and customers use Bookings to reserve hotel rooms.

#### Data Environment

Bookings connects to a Microsoft SQL Server database named hotelDB in the New York office.

The database has a view named vwAvailability that consolidates columns from the tables named Hotels, Rooms, and RoomAvailability. The database contains data that was collected during the last 20 years.

#### Problem Statements

Contoso identifies the following issues with its current business model:

- European users report that access to Booking is slow, and they lose customers who must wait on the phone while they search for available rooms.
- Users report that Bookings was unavailable during an outage in the New York data center for more than 24 hours.

#### Requirements

Contoso identifies the following issues with its current business model:

- European users report that access to Bookings is slow, and they lose customers who must wait on the phone while they search for available rooms.
- Users report that Bookings was unavailable during an outage in the New York data center for more than 24 hours.

## Business Goals

Contoso wants to provide a new version of the Bookings app that will provide a highly available, reliable service for booking travel packages by interacting with a chatbot named Butler.

Contoso plans to move all production workloads to the cloud.

## Technical requirements

Contoso identifies the following technical requirements:

- Data scientists must test Butler by using ASDK.
- Whenever possible, solutions must minimize costs.
- Butler must greet users by name when they first connect.
- Butler must be able to handle up to 10,000 messages a day.
- Butler must recognize the users' intent based on basic utterances.
- All configurations to the Azure Bot Service must be logged centrally.
- Whenever possible, solutions must use the principle of least privilege.
- Internal users must be able to access Butler by using Microsoft Skype for Business.
- The new Bookings app must provide a user interface where users can interact with Butler.
- Users in an Azure AD group named KeyManagers must be able to manage keys for all Azure Cognitive Services.
- Butler must provide users with the ability to reserve a room, cancel a reservation, and view existing reservations.
- The new Bookings app must be available to users in North America and Europe if a single data center or Azure region fails.
- For continuous improvement, you must be able to test Butler by sending sample utterances and comparing the chatbot's responses to the actual intent.

## QUESTION 1

You need to design the Butler chatbot solution to meet the technical requirements.



<https://vceplus.com/>

What is the best channel and pricing tier to use? More than one answer choice may achieve the goal. Select the **BEST** answer.

- A. Standard channels that use the S1 pricing tier
- B. Standard channels that use the Free pricing tier
- C. Premium channels that use the Free pricing tier
- D. Premium channels that use the S1 pricing tier

**Correct Answer:** D

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References:

<https://azure.microsoft.com/en-in/pricing/details/bot-service/>



## Question Set 1

### QUESTION 1

You need to deploy cognitive search.

You provision an Azure Search service.

What should you do next?

- A. Search by using the .NET SDK.
- B. Load data.
- C. Search by using the REST API.
- D. Create an index.

**Correct Answer:** D

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Explanation:

You create a data source, a skillset, and an index. These three components become part of an indexer that pulls each piece together into a single multi-phased operation.

Note: At the start of the pipeline, you have unstructured text or non-text content (such as image and scanned document JPEG files). Data must exist in an Azure data storage service that can be accessed by an indexer. Indexers can "crack" source documents to extract text from source data.

References: <https://docs.microsoft.com/en-us/azure/search/cognitive-search-tutorial-blob>

### QUESTION 2

You need to design an application that will analyze real-time data from financial feeds.

The data will be ingested into Azure IoT Hub. The data must be processed as quickly as possible in the order in which it is ingested.

Which service should you include in the design?

- A. Azure Data Factory
- B. Azure Queue storage
- C. Azure Stream Analytics

- D. Azure Notification Hubs
- E. Apache Kafka
- F. Azure Event Hubs

**Correct Answer:** C

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Explanation:

Stream processing can be handled by Azure Stream Analytics. Azure Stream Analytics can run perpetual queries against an unbounded stream of data. These queries consume streams of data from storage or message brokers, filter and aggregate the data based on temporal windows, and write the results to sinks such as storage, databases, or directly to reports in Power BI. Stream Analytics uses a SQL-based query language that supports temporal and geospatial constructs, and can be extended using JavaScript.

Incorrect Answers:

E: Apache Kafka is used for ingestion, not for stream processing.

F: Azure Event Hubs is used for ingestion, not for stream processing.

Reference: <https://docs.microsoft.com/en-us/azure/architecture/data-guide/big-data/real-time-processing>

### QUESTION 3

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:

- Alert teachers if a student seems angry or distracted.
- Identify each student in the classrooms for attendance purposes.
- Allow the teachers to log the text of conversations between themselves and the students.

Which Cognitive Services should you recommend?

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

E. Video Indexer, Speech to Text, and Face API

**Correct Answer:** E

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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.

Face API enables you to search, identify, and match faces in your private repository of up to 1 million people.

The Face API now integrates emotion recognition, returning the confidence across a set of emotions for each face in the image such as anger, contempt, disgust, fear, happiness, neutral, sadness, and surprise. These emotions are understood to be cross-culturally and universally communicated with particular facial expressions.

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. This service is powered by the same recognition technology that Microsoft uses for Cortana and Office products, and works seamlessly with the translation and text-to-speech.

Incorrect Answers:

Computer Vision or the QnA is not required.

References:

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

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

#### **QUESTION 4**

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

**Correct Answer:** D

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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>

### QUESTION 5

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

**Correct Answer:** A

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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>



### QUESTION 6

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

**Section:** [none]

**Explanation**

#### **Explanation/Reference:**

Explanation:

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>

### QUESTION 7

You need to configure versioning and logging for Azure Machine Learning models.

Which Machine Learning service application should you use?



<https://vceplus.com/>

- A. Models
- B. Activities
- C. Experiments
- D. Pipelines
- E. Deployments

**Correct Answer:** E

**Section:** [none]

**Explanation**



**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/azure/machine-learning/service/how-to-enable-logging#logging-for-deployed-models>

### QUESTION 8

DRAG DROP

You need to design the workflow for an Azure Machine Learning solution. The solution must meet the following requirements:

- Retrieve data from file shares, Microsoft SQL Server databases, and Oracle databases that in an on-premises network. ▪
- Use an Apache Spark job to process data stored in an Azure SQL Data Warehouse database.

Which service should you use to meet each requirement? To answer, drag the appropriate services to the correct requirements. Each service 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.

Select and Place:

Services		Answer Area	
Azure Data Factory	Azure Data Bricks	Retrieve the data	Service
Azure Logic Apps	Azure Stream Analytics	Process the data	Service

Correct Answer:

Services		Answer Area	
Azure Data Factory	Azure Data Bricks	Retrieve the data	Azure Data Factory
Azure Logic Apps	Azure Stream Analytics	Process the data	Azure Data Bricks

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio/use-data-from-an-on-premises-sql-server> <https://docs.microsoft.com/en-in/azure/azure-databricks/what-is-azure-databricks>

### QUESTION 9

You have Azure IoT Edge devices that collect measurements every 30 seconds.

You plan to send the measurements to an Azure IoT hub.

You need to ensure that every event is processed as quickly as possible.

What should you use?

- A. Apache Kafka
- B. Azure Stream Analytics record functions
- C. Azure Stream Analytics windowing functions
- D. Azure Machine Learning on the IoT Edge devices

**Correct Answer:** A

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/azure/hdinsight/kafka/apache-kafka-connector-iot-hub>

#### QUESTION 10

Your company recently purchased several hundred hardware devices that contain 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

**Correct Answer:** A

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References:

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

**Testlet 2**

## Overview

Contoso, Ltd. has an office in New York to serve its North American customers and an office in Paris to serve its European customers.

## Existing Environment

### Infrastructure

Each office has a small data center that hosts Active Directory services and a few off-the-shelf software solutions used by internal users.

The network contains a single Active Directory forest that contains a single domain named contoso.com. Azure Active Directory (Azure AD) Connect is used to extend identity management to Azure.

The company has an Azure subscription. Each office has an Azure ExpressRoute connection to the subscription. The New York office connects to a virtual network hosted in the US East 2 Azure region. The Paris office connects to a virtual network hosted in the West Europe Azure region.

The New York office has an Azure Stack Development Kit (ASDK) deployment that is used for development and testing.

### Current Business Model

Contoso has a web app named Bookings hosted in an App Service Environment (ASE). The ASE is in the virtual network in the East US 2 region. Contoso employees and customers use Bookings to reserve hotel rooms.

### Data Environment

Bookings connects to a Microsoft SQL Server database named hotelDB in the New York office.

The database has a view named vwAvailability that consolidates columns from the tables named Hotels, Rooms, and RoomAvailability. The database contains data that was collected during the last 20 years.

### Problem Statements

Contoso identifies the following issues with its current business model:

- European users report that access to Booking is slow, and they lose customers who must wait on the phone while they search for available rooms.
- Users report that Bookings was unavailable during an outage in the New York data center for more than 24 hours.

### Requirements

Contoso identifies the following issues with its current business model:

- European users report that access to Bookings is slow, and they lose customers who must wait on the phone while they search for available rooms.
- Users report that Bookings was unavailable during an outage in the New York data center for more than 24 hours.

### Business Goals

Contoso wants to provide a new version of the Bookings app that will provide a highly available, reliable service for booking travel packages by interacting with a chatbot named Butler.

Contoso plans to move all production workloads to the cloud.

### Technical requirements

Contoso identifies the following technical requirements:

- Data scientists must test Butler by using ASDK.
- Whenever possible, solutions must minimize costs.
- Butler must greet users by name when they first connect.
- Butler must be able to handle up to 10,000 messages a day.
- Butler must recognize the users' intent based on basic utterances.
- All configurations to the Azure Bot Service must be logged centrally.
- Whenever possible, solutions must use the principle of least privilege.
- Internal users must be able to access Butler by using Microsoft Skype for Business.
- The new Bookings app must provide a user interface where users can interact with Butler.
- Users in an Azure AD group named KeyManagers must be able to manage keys for all Azure Cognitive Services.
- Butler must provide users with the ability to reserve a room, cancel a reservation, and view existing reservations.
- The new Bookings app must be available to users in North America and Europe if a single data center or Azure region fails.
- For continuous improvement, you must be able to test Butler by sending sample utterances and comparing the chatbot's responses to the actual intent.

### QUESTION 1

Which two services should be implemented so that Butler can find available rooms 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

**Correct Answer:** AC

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References:

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



## Question Set 1

### QUESTION 1

Your company has recently purchased and deployed 25,000 IoT devices.

You need to recommend a data analysis solution for the devices that meets the following requirements:

- Each device must use its own credentials for identity.
- Each device must be able to route data to multiple endpoints.
- The solution must require the minimum amount of customized code.

What should you include in the recommendation?

- A. Microsoft Azure Notification Hubs
- B. Microsoft Azure Event Hubs
- C. Microsoft Azure IoT Hub
- D. Microsoft Azure Service Bus

**Correct Answer:** C

**Section:** [none]

**Explanation**



**Explanation/Reference:**

Explanation:

An IoT hub has a default built-in endpoint. You can create custom endpoints to route messages to by linking other services in your subscription to the hub. Individual devices connect using credentials stored in the IoT hub's identity registry.

References: <https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-devguide-security>

### QUESTION 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 API key



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

**Correct Answer:** D

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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>

### QUESTION 3

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 data gateway
- C. Azure Data Factory
- D. a network gateway

**Correct Answer:** B

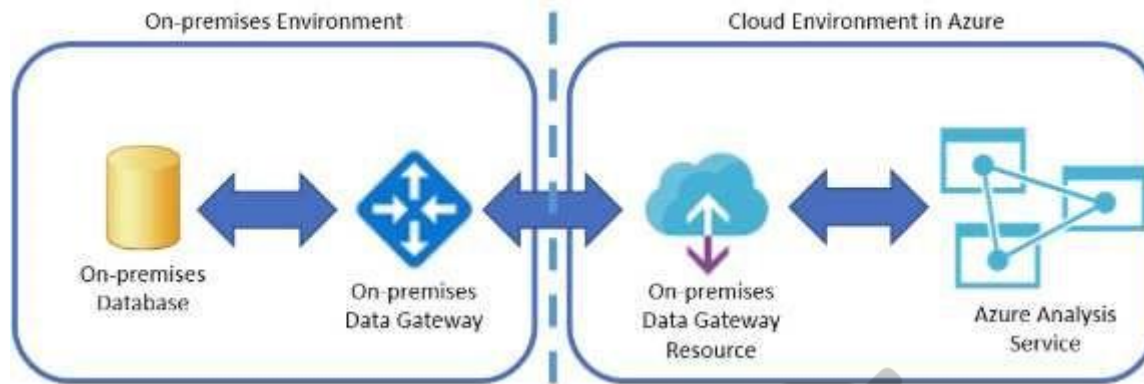
**Section:** [none]

**Explanation**

**Explanation/Reference:**

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/>

#### QUESTION 4

A data scientist deploys a deep learning model on an Fsv2 virtual machine.

Data analysis is slow.

You need to recommend which virtual machine series the data scientist must use to ensure that data analysis occurs as quickly as possible.

Which series should you recommend?

- A. ND
- B. B
- C. DC
- D. Ev3

**Correct Answer:** A

**Section: [none]**

**Explanation**

**Explanation/Reference:**

Explanation:

The N-series is a family of Azure Virtual Machines with GPU capabilities. GPUs are ideal for compute and graphics-intensive workloads, helping customers to fuel innovation through scenarios like high-end remote visualisation, deep learning and predictive analytics.

The ND-series is focused on training and inference scenarios for deep learning. It uses the NVIDIA Tesla P40 GPUs. The latest version - NDv2 - features the NVIDIA Tesla V100 GPUs.

References:

<https://azure.microsoft.com/en-in/pricing/details/virtual-machines/series/>

## **QUESTION 5**

**DRAG DROP**

You are designing a solution that uses drones to monitor remote locations for anomalies. The drones have Azure IoT Edge devices. The solution must meet the following requirements:

- Email a user the picture and location of an anomaly when an anomaly is detected.
- Use a video stream to detect anomalies at the location.
- Send the pictures and location information to Azure. ▪

Use the latest amount of code possible.

You develop a custom vision Azure Machine Learning module to detect the anomalies.

Which service should you use for each requirement? To answer, drag the appropriate services to the correct requirements. Each service 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.

**Select and Place:**

### Services

Azure Functions

Azure IoT Hub

Azure IoT Edge

Azure Logic Apps

### Answer Area

Use a video stream to detect anomalies at the location:

Service

Send the pictures and location information to Azure:

Service

Email a user the picture and location of an anomaly when an anomaly is detected:

Service

Correct Answer:

### Services

Azure IoT Hub

### Answer Area

Use a video stream to detect anomalies at the location:

Azure IoT Edge

Send the pictures and location information to Azure:

Azure Functions

Email a user the picture and location of an anomaly when an anomaly is detected:

Azure Logic Apps

Section: [none]

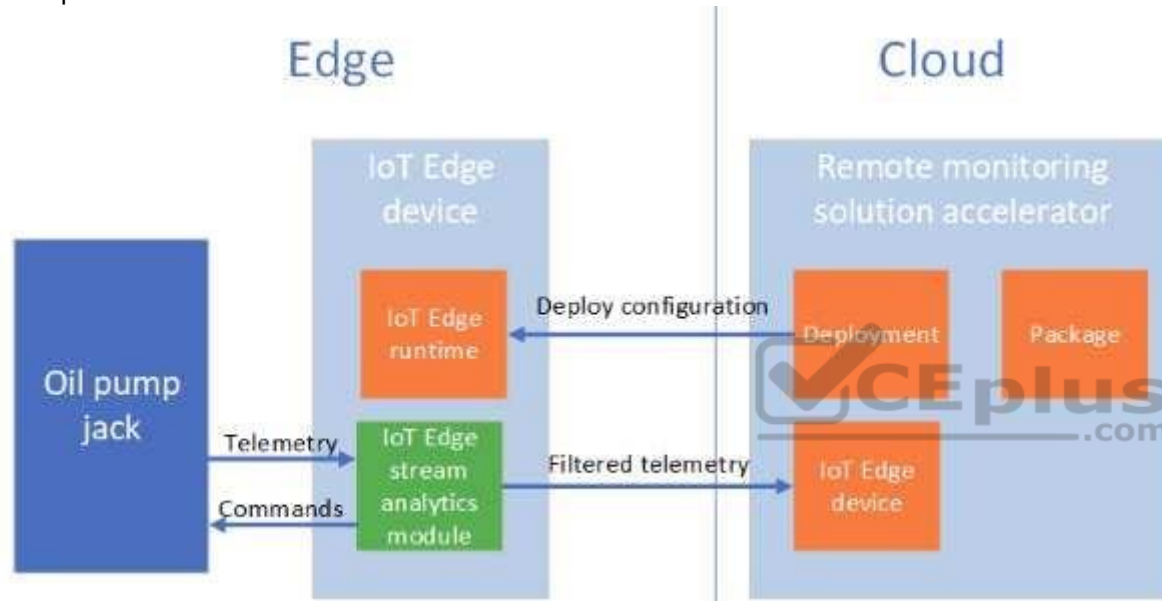
Explanation

Explanation/Reference:

Explanation:

Box 1: Azure IOT Edge

Example:



You configure the Remote Monitoring solution to respond to anomalies detected by an IoT Edge device. IoT Edge devices let you process telemetry at the edge to reduce the volume of telemetry sent to the solution and to enable faster responses to events on devices. Box 2: Azure Functions Box 3: Azure Logic Apps

References: <https://docs.microsoft.com/en-us/azure/iot-accelerators/iot-accelerators-remote-monitoring-edge>

### QUESTION 6

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

**Correct Answer:** C

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/azure/iot-edge/tutorial-deploy-stream-analytics>

#### QUESTION 7

**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 are deploying an Azure Machine Learning model to an Azure Kubernetes Service (AKS) container.

You need to monitor the accuracy of each run of the model.

Solution: You modify the scoring file.

Does this meet the goal?

- A. Yes
- B. No

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

#### QUESTION 8

**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 are deploying an Azure Machine Learning model to an Azure Kubernetes Service (AKS) container.

You need to monitor the accuracy of each run of the model.

Solution: You configure Azure Monitor for containers.

Does this meet the goal?

- A. Yes
- B. No

**Correct Answer: B**

**Section: [none]**

**Explanation**

**Explanation/Reference:**



#### **QUESTION 9**

**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 are deploying an Azure Machine Learning model to an Azure Kubernetes Service (AKS) container.

You need to monitor the accuracy of each run of the model.

Solution: You configure Azure Application Insights.

Does this meet the goal?

- A. Yes
- B. No

**Correct Answer:** A

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/service/how-to-enable-data-collection>

<https://docs.microsoft.com/en-us/azure/machine-learning/service/how-to-enable-app-insights>

#### **QUESTION 10**

**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 create several API 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

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Explanation:

You need to enable Model data collection.

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/service/how-to-enable-data-collection>





**QUESTION 11**

You deploy an Azure bot.

You need to collect Key Performance Indicator (KPI) data from the bot. The type of data includes:

- The number of users interacting with the bot
  - The number of messages interacting with the bot
  - The number of messages on different channels received by the bot
  - The number of users and messages continuously interacting with the bot
- What

should you configure?

- A. Bot analytics
- B. Azure Monitor
- C. Azure Analysis Services
- D. Azure Application Insights

**Correct Answer:** A

**Section:** [none]

**Explanation**



**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/azure/bot-service/bot-service-manage-analytics?view=azure-bot-service-4.0>

**QUESTION 12**

Your company develops an API application that is orchestrated by using Kubernetes.

You need to deploy the application.

Which three actions should you perform? Each correct answer presents part of the solution.

**NOTE:** Each correct selection is worth one point.

- A. Create a Kubernetes cluster.
- B. Create an Azure Container Registry instance.
- C. Create a container image file.
- D. Create a Web App for Containers.
- E. Create an Azure container instance.

**Correct Answer:** ABC

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/azure/aks/tutorial-kubernetes-prepare-app>

### QUESTION 13

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

**Correct Answer:** D

**Section:** [none]

**Explanation**



**Explanation/Reference:**

References: <https://azure.microsoft.com/en-us/blog/new-capabilities-to-enable-robust-gdpr-compliance/>

### QUESTION 14

You are developing an application that will perform optical character recognition of photos of medical logbooks.

You need to recommend a solution to validate the data against a validated set of records.

Which service should you include in the recommendation?

- A. Azure Data Catalog
- B. Text Analytics
- C. Bing Autosuggest
- D. Master Data Services (MDS) in Microsoft SQL Server

**Correct Answer:** D

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References: <https://docs.microsoft.com/en-us/sql/master-data-services/validation-master-data-services?view=sql-server-2017>

#### QUESTION 15

You are designing an AI application that will perform real-time processing by using Microsoft Azure Stream Analytics.

You need to identify the valid outputs of a Stream Analytics job.

What are three possible outputs? Each correct answer presents a complete solution.

**NOTE:** Each correct selection is worth one point.

- A. A Hive table in Azure HDInsight
- B. Azure SQL Database
- C. Azure Cosmos DB
- D. Azure Blob storage
- E. Azure Redis Cache



**Correct Answer:** BCD

**Section:** [none]

**Explanation**

**Explanation/Reference:** References: <https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-define-outputs>

#### QUESTION 16

Your company has an Azure subscription that contains an Azure Active Directory (Azure AD) tenant.

Azure AD contains 500 user accounts for your company's employees. Some temporary employees do NOT have user accounts in Azure AD.

You are designing a storage solution for video files and metadata files.

You plan to deploy an application to perform analysis of the metadata files.

You need to recommend an authentication solution to provide links to the video files. The solution must provide access to each file for only five minutes.

What should you include in the recommendation?

- A. Secondary Storage Key
- B. Primary Storage Key
- C. Shared Access Signature
- D. Azure Active Directory

**Correct Answer:** C

**Section:** [none]

**Explanation**

**Explanation/Reference:**

References:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-dotnet-shared-access-signature-part-1>



<https://vceplus.com/>