



AI-100^{Q&As}

Designing and Implementing an Azure AI Solution

Pass Microsoft AI-100 Exam with 100% Guarantee

Free Download Real Questions & Answers **PDF** and **VCE** file from:

<https://www.pass4itsure.com/ai-100.html>

100% Passing Guarantee
100% Money Back Assurance

Following Questions and Answers are all new published by Microsoft
Official Exam Center

-  **Instant Download** After Purchase
-  **100% Money Back** Guarantee
-  **365 Days** Free Update
-  **800,000+** Satisfied Customers



**QUESTION 1**

Your company uses several bots. The bots use Azure Bot Service.

Several users report that some of the bots fail to return the expected results.

You plan to view the service health of the bot service.

You need to request the appropriate role to access the service health of the bot service. The solution must use the principle of least privilege.

Which role should you request?

- A. The Contributor role on the Azure subscription
- B. The Reader role on the bot service
- C. The Owner role on the bot service
- D. The Reader role on the Azure subscription

Correct Answer: B

Use the Reader role on the bot service to limit access and scope.

Note: Access management for cloud resources is a critical function for any organization that is using the cloud. Azure role-based access control (Azure RBAC) helps you manage who has access to Azure resources, what they can do with those resources, and what areas they have access to.

Azure includes several built-in roles that you can use. The Reader Role can view existing Azure resources.

Scope is the set of resources that the access applies to. When you assign a role, you can further limit the actions allowed by defining a scope. In Azure, you can specify a scope at multiple levels: management group, subscription, resource

group, or resource.

Reference:

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

QUESTION 2

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: D

Azure Stream Analytics is a real-time analytics and complex event processing engine that is well-suited for ingesting, processing, and storing data from various sources, including Azure Event Hubs. It provides a familiar SQL-like language (Transact-SQL) for querying and transforming data, making it a suitable choice for a data team of Transact-SQL experts. With Azure Stream Analytics, the data team can easily define queries and transformations to move and query data from Event Hubs to Azure Storage.

QUESTION 3

Your company is building custom models that integrate into microservices architecture on Azure Kubernetes Services (AKS).

The model is built by using Python and published to AKS.

You need to update the model and enable Azure Application Insights for the model.

What should you use?

- A. the Azure CLI
- B. MLNET Model Builder
- C. the Azure Machine Learning SDK
- D. the Azure portal

Correct Answer: C

You can set up Azure Application Insights for Azure Machine Learning. Application Insights gives you the opportunity to monitor:

1.

Request rates, response times, and failure rates.

2.

Dependency rates, response times, and failure rates.

3.

Exceptions.

Requirements include an Azure Machine Learning workspace, a local directory that contains your scripts, and the Azure Machine Learning SDK for Python installed.



References:

<https://docs.microsoft.com/bs-latn-ba/azure/machine-learning/service/how-to-enable-app-insights>

QUESTION 4

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

Correct Answer: BDE

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 5**

You deploy an Azure bot.

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

1.

The number of users interacting with the bot

2.

The number of messages interacting with the bot

3.

The number of messages on different channels received by the bot

4.

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

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

QUESTION 6

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

QUESTION 7

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

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

QUESTION 8

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

**QUESTION 9**

You need to configure versioning and logging for Azure Machine Learning models. Which Machine Learning service application should you use?

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

Correct Answer: E

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

QUESTION 10

You are implementing the Language Understanding (LUIS) API and are building a GDPR-compliant bot by using the Bot Framework.

You need to recommend a solution to ensure that the implementation of LUIS is GDPR-compliant.

What should you include in the recommendation?

- A. Enable active learning for the bot.
- B. Configure the bot to send the active learning preference of a user.
- C. Delete the utterances from Review endpoint utterances.

Correct Answer: C

Deleting personal data from the device or service and can be used to support your obligations under the GDPR.

References: <https://docs.microsoft.com/bs-latn-ba/azure/cognitive-services/luis/luis-user-privacy>

QUESTION 11

You are developing a Microsoft Bot Framework application. The application consumes structured NoSQL data that must be stored in the cloud.

You implement Azure Blob storage for the application. You want access to the blob store to be controlled by using a role.

You implement Shared Key authorization on the storage account.

Does this action accomplish your objective?



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

Correct Answer: B

Shared Key authorization is not suitable for controlling access to the blob store based on roles. Shared Key authorization provides a storage account access key, which can be used to authenticate and access the blob store. However, it does not support role-based access control (RBAC) or fine-grained access control.

To control access to the blob store based on roles, you should use Azure Blob storage with Azure Active Directory (Azure AD) integration. Azure AD enables you to define roles and assign them to users or groups, allowing you to manage access control at a more granular level. With Azure AD integration, you can use RBAC to control who can perform specific actions on the blob store, such as read, write, or delete.

By combining Azure Blob storage with Azure AD integration and RBAC, you can achieve the objective of controlling access to the blob store based on roles.

QUESTION 12

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

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

QUESTION 13

You are developing a bot for an ecommerce application. The bot will support five languages.

The bot will use Language Understanding (LUIS) to detect the language of the customer, and QnA Maker to answer common customer questions. LUIS supports all the languages.

You need to determine the minimum number of Azure resources that you must create for the bot.

You create five instances of QnA Maker and five instances Language Understanding (LUIS).

Does this action accomplish your objective?



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

Correct Answer: A

You need to have a new QnA Maker resource for each language.

If LUIS supports all the languages, you develop a LUIS app for each language. Each LUIS app has a unique app ID, and endpoint log. If you need to provide language understanding for a language LUIS does not support, you can use

Microsoft Translator API to translate the utterance into a supported language, submit the utterance to the LUIS endpoint, and receive the resulting scores.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/overview/language-support>

<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-language-support>

QUESTION 14

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

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 15

You are developing a mobile app for a conference provider. The mobile app will use speech-to-text to provide real-time transcription at a conference.

You need to ensure that the app can identify participants at the conference when they make contributions.

What actions should you take?



- A. Instruct each participant to record the conference in the .wav format.
- B. Instruct each participant to create a voice signature.
- C. Instruct each participant to sign up for Azure Speech Services.
- D. Instruct each participant to install the Speech SDK on their mobile device.

Correct Answer: B

The first step is to create voice signatures for the conversation participants. Creating voice signatures is required for efficient speaker identification.

Note: In addition to the standard baseline model used by the Speech Services, you can customize models to your needs with available data, to overcome speech recognition barriers such as speaking style, vocabulary and background noise.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/speech-service/how-to-use-conversation-transcription>

[AI-100 PDF Dumps](#)

[AI-100 Exam Questions](#)

[AI-100 Brainsdumps](#)