



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

Designing and Implementing an Azure AI Solution

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### QUESTION 1

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>

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### QUESTION 2

DRAG DROP

You need to create a bot to meet the following requirements:

1.

The bot must support multiple bot channels including Direct Line.

2.

Users must be able to sign in to the bot by using a Gmail user account and save activities and preferences.

Which four 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.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Select and Place:



### Actions

- From the Azure portal, create a client application.
- From the Azure portal, set Guest users permissions are limited to **No**.
- From the Azure portal, create an Azure Active Directory (Azure AD) B2C service.
- From the Azure portal, enable Azure Multi-Factor Authentication (MFA).
- From the Azure portal, configure an identity provider.
- From the bot code, add the connection settings and OAuthPrompt.

### Answer Area



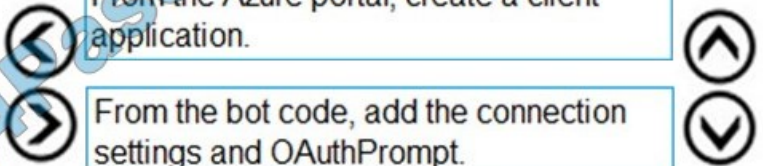
Correct Answer:

### Actions

- 
- From the Azure portal, set Guest users permissions are limited to **No**.
- 
- From the Azure portal, enable Azure Multi-Factor Authentication (MFA).
- 
- 

### Answer Area

- From the Azure portal, configure an identity provider.
- From the Azure portal, create an Azure Active Directory (Azure AD) B2C service.
- From the Azure portal, create a client application.
- From the bot code, add the connection settings and OAuthPrompt.



Step 1: From the Azure portal, configure an identity provider.

The Azure Bot Service and the v4 SDK include new bot authentication capabilities, providing features to make it easier to develop a bot that authenticates users to various identity providers, such as Azure AD (Azure Active Directory), GitHub,

Uber, and so on.



Step 2: From the Azure portal, create an Azure Active Directory (Azure AD) B2C service.

Azure Active Directory B2C provides business-to-customer identity as a service. Your customers use their preferred social, enterprise, or local account identities to get single sign-on access to your applications and APIs.

Step 3: From the Azure portal, create a client application

You can enable communication between your bot and your own client application by using the Direct Line API.

Step 4: From the bot code, add the connection settings and OAuthPrompt

Use an OAuth prompt to sign the user in and get a token.

Azure AD B2C uses standards-based authentication protocols including OpenID Connect, OAuth 2.0, and SAML.

References:

<https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-authentication?view=azure-bot-service-4.0>

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### QUESTION 3

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

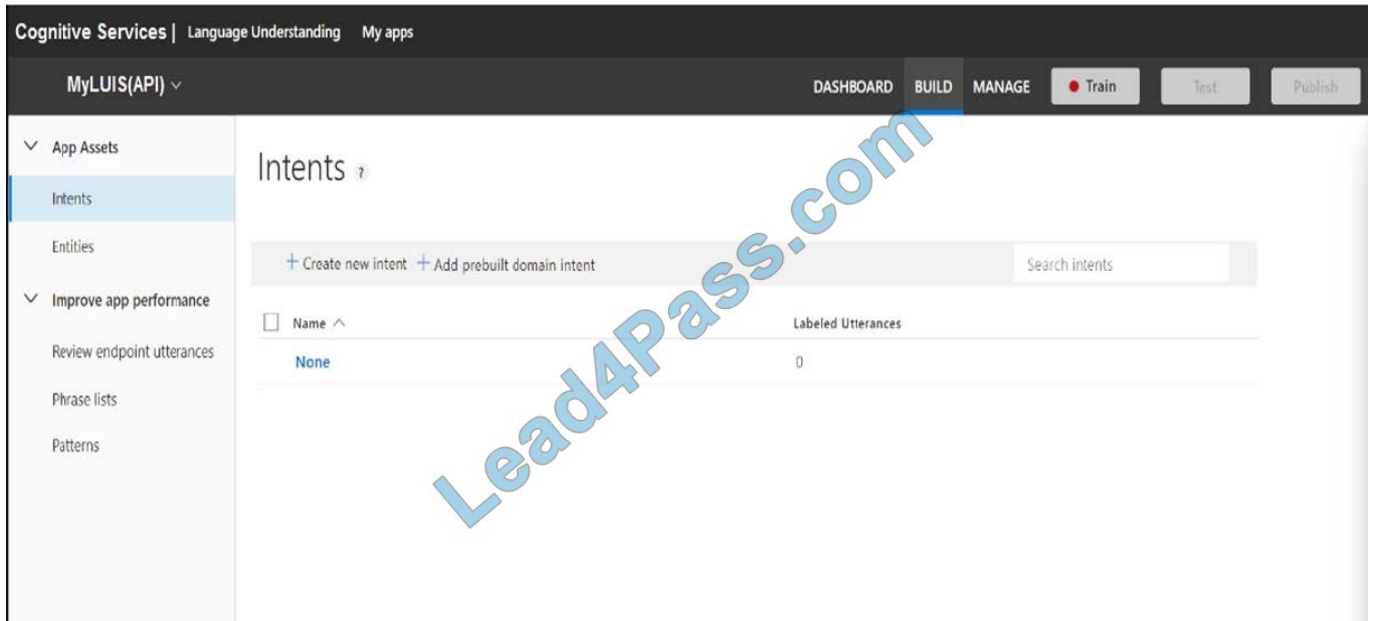
References: <https://docs.microsoft.com/en-us/sql/master-data-services/validation-master-data-services?view=sql-server-2017>

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### QUESTION 4

HOTSPOT

You have an app that uses the Language Understanding (LUIS) API as shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

## Answer Area

To publish the app, you must first **[answer choice]** the app.

▼

- test
- train
- create utterances in

You can add utterances to the model by **[answer choice]**.

▼

- creating intents
- testing the model
- training the model

The app was **[answer choice]**.

▼

- never published
- already published
- published but never accessed by users

Correct Answer:



## Answer Area

To publish the app, you must first **[answer choice]** the app.

test
<b>train</b>
create utterances in

You can add utterances to the model by **[answer choice]**.

creating intents
testing the model
training the model

The app was **[answer choice]**.

never published
already published
published but never accessed by users

Box 1: train

Utterances are input from the user that your app needs to interpret. To train LUIS to extract intents and entities from them, it's important to capture a variety of different example utterances for each intent. Active learning, or the process of

continuing to train on new utterances, is essential to machine-learned intelligence that LUIS provides.

Box 2: creating intents

Each intent needs to have example utterances, at least 15. If you have an intent that does not have any example utterances, you will not be able to train LUIS. If you have an intent with one or very few example utterances, LUIS will not

accurately predict the intent.

Box 3: never published

In each iteration of the model, do not add a large quantity of utterances. Add utterances in quantities of 15. Train, publish, and test again.

References:

<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-concept-utteran3ce>

### QUESTION 5

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

- 
- Upload a key to an Azure key vault.
- 
- Generate an access key.
- 
- Generate a shared access signature (SAS).

### Answer Area

- Configure a service endpoint for the storage account.
- Generate an encryption key.
- Enable encryption that uses customer-managed keys.

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 6

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

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

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### QUESTION 7

Your company plans to develop a mobile app to provide meeting transcripts by using speech-to-text. Audio from the meetings will be streamed to provide real-time transcription.

You need to recommend which task each meeting participant must perform to ensure that the transcripts of the meetings can identify all participants.

Which task should you recommend?

- A. Record the meeting as an MP4.
- B. Create a voice signature.
- C. Sign up for Azure Speech Services.
- D. Sign up as a guest in Azure Active Directory (Azure AD)

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.

References:

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

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### QUESTION 8

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

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

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### QUESTION 9

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 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 have an Azure SQL database, an Azure Data Lake Storage Gen 2 account, and an API developed by using Azure Machine Learning Studio.

You need to ingest data once daily from the database, score each row by using the API, and write the data to the storage account.

Solution: You create a scheduled Jupyter Notebook in Azure Databricks.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

We need to schedule the job in Azure Data Factory.

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### QUESTION 11

You have an Azure SQL database an Azure Data Lake Storage Gen 2 account, and an API developed by using Azure Machine Learning Studio.

You need to ingest data once daily from the database. score each row by using me API, and write the data to the storage account

Solution: You create an Azure Data Factory pipeline that contains the Machine Learning Batch Execution activity. Does this mew the goal?

A. Yes

B. NO

Correct Answer: A

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### QUESTION 12

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

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

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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.

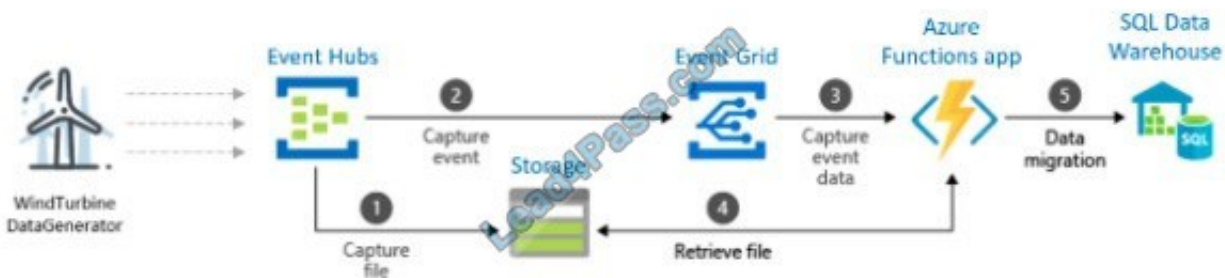
- A. Azure Notification Hubs
- B. Azure Event Grid
- C. Apache Kafka streams
- D. Azure Stream Analytics

Correct Answer: B

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 13



You need to create a prototype of a bot to demonstrate a user performing a task. The demonstration will use the Bot Framework Emulator. Which botbuilder CLI tool should you use to create the prototype?

- A. Chatdown
- B. QnAMaker
- C. Dispatch
- D. LuDown

Correct Answer: A

Use Chatdown to produce prototype mock conversations in markdown and convert the markdown to transcripts you can load and view in the new V4 Bot Framework Emulator. Incorrect Answers:

B: QnA Maker is a cloud-based API service that lets you create a conversational question-and-answer layer over your existing data. Use it to build a knowledge base by extracting questions and answers from your semi-structured content, including FAQs, manuals, and documents. Answer users' questions with the best answers from the QnAs in your knowledge base--automatically. Your knowledge base gets smarter, too, as it continually learns from user behavior.

C: Dispatch lets you build language models that allow you to dispatch between disparate components (such as QnA, LUIS and custom code).

D: LuDown build LUIS language understanding models using markdown files

References: <https://github.com/microsoft/botframework/blob/master/README.md>

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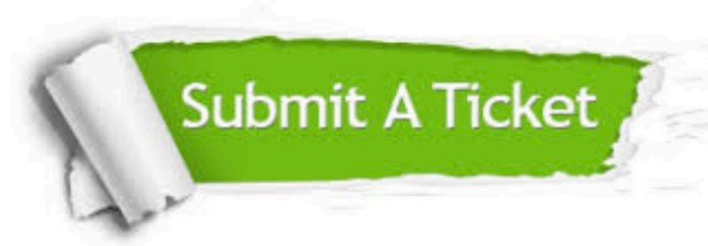
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