



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

Designing and Implementing an Azure AI Solution

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### QUESTION 1

You have a Bing Search service that is used to query a product catalog. You need to identify the following information:

1.

The locale of the query

2.

The top 50 query strings

3.

The number of calls to the service

4.

The top geographical regions of the service What should you implement?

A. Bing Statistics

B. Azure API Management (APIM)

C. Azure Monitor

D. Azure Application Insights

Correct Answer: A

The Bing Statistics add-in provides metrics such as call volume, top queries, API response, code distribution, and market distribution. The rich slicing-and-dicing capability lets you gather deeper understanding of your users and their usage to inform your business strategy.

References: <https://www.bingapistatistics.com/>

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### QUESTION 2

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

You need to recommend a solution to ensure that access to the web service is encrypted.

Which three actions should you recommend? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

A. Generate a shared access signature (SAS)

B. Obtain an SSL certificate

C. Add a deployment slot

D. Update the web service



E. Update DNS

F. Create an Azure Key Vault

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>

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### QUESTION 3

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

1.

The data files will be available in one week.

2.

Most queries that will be executed against the data warehouse will be ad-hoc queries.

3.

The schemas of data files that will be loaded to the data warehouse will change often.

4.

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

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

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#### QUESTION 4

Your company's marketing department is creating a social media campaign that will allow users to submit video messages for the company's social media sites.

You are developing an AI app for the campaign. Your app must meet the following requirements:

Add captions to the video messages before they are posted to the social media sites.

Ensure that no negative video messages are posted to the social media sites. Which of the following actions should you take?

- A. Implement Form Recognizer in your app.
- B. Implement the Face API in your app.
- C. Implement Custom Vision in your app.
- D. Implement Video Indexer in your app.

Correct Answer: D

Video Indexer includes Audio transcription: Converts speech to text in 12 languages and allows extensions. Supported languages include English, Spanish,

French, German, Italian, Mandarin Chinese, Japanese, Arabic, Russian, Portuguese, Hindi, and Korean.

When indexing by one channel, partial result for those models will be available, such as sentiment analysis: Identifies positive, negative, and neutral sentiments from speech and visual text.

Reference:

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

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#### QUESTION 5

You are developing an AI solution that will use in-memory caching and a columnar storage engine for Apache Hive queries. What HDInsight platform should you use?



- A. Apache Kafka
- B. Apache Spark
- C. Interactive Query
- D. Apache Storm

Correct Answer: C

Interactive Query provides In-memory caching and improved columnar storage engine for Hive queries. Reference:  
<https://docs.microsoft.com/bs-latn-ba/azure/hdinsight/interactive-query/apache-interactive-query-get-started>

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