



# 70-775<sup>Q&As</sup>

Perform Data Engineering on Microsoft Azure HDInsight

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### 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 in this sections, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are building a security tracking solution in Apache Kafka to parse security logs. The security logs record an entry each time a user attempts to access an application. Each log entry contains the IP address used to make the attempt and the country from which the attempt originated.

You need to receive notifications when an IP address from outside of the United States is used to access the application.

Solution: Create two new consumers. Create a file import process to send messages. Start the producer.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

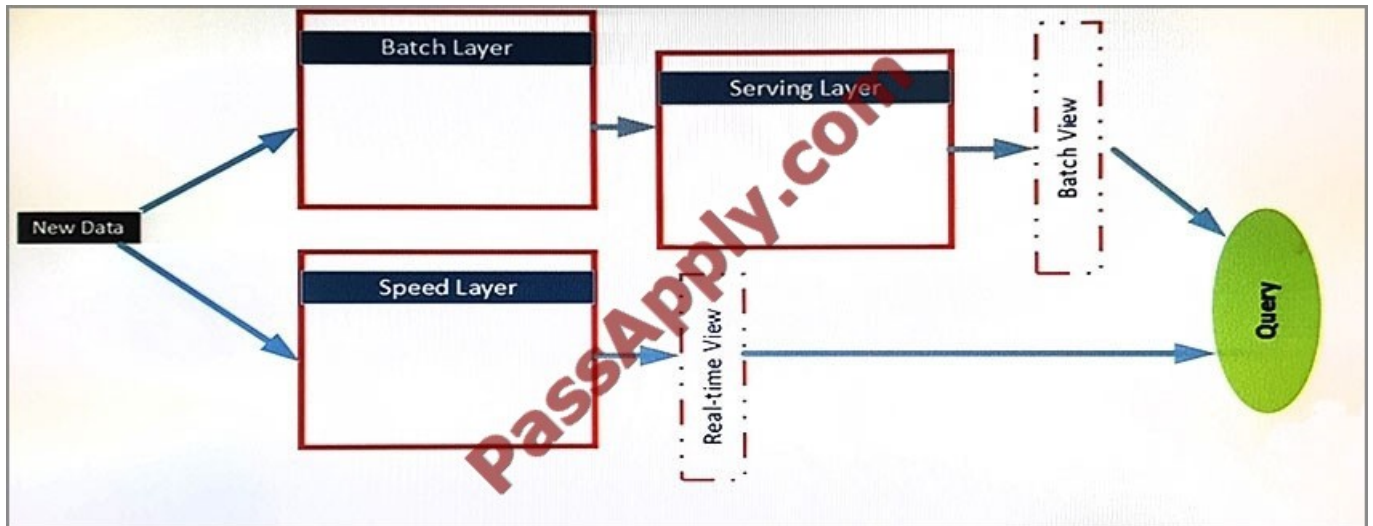
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### QUESTION 2

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

You are planning a big data infrastructure by using an Apache Spark cluster in Azure HDInsight. The cluster has 24 processor cores and 512 GB of memory.

The architecture of the infrastructure is shown in the exhibit. (Click the Exhibit button.)



The architecture will be used by the following users:

The data sources in the batch layer share a common storage container. The following data sources are used:

You need to ensure that the support analysts can develop embedded analytics applications by using the least amount of development effort.

Which technology should you implement?

- A. Zeppelin
- B. Jupyter
- C. Apache Ambari
- D. Livy

Correct Answer: D

References: <https://docs.microsoft.com/en-us/azure/hdinsight/hdinsight-apache-spark-livy-rest-interface>

### QUESTION 3

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

You have an initial dataset that contains the crime data from major cities.

You plan to build training models from the training data. You plan to automate the process of adding more data to the training models and to constantly tune the models by using the additional data, including data that is collected in near real-

time. The system will be used to analyze event data gathered from many different sources, such as Internet of Things (IoT) devices, live video surveillance, and traffic activities, and to generate predictions of an increased crime risk at a



particular time and place.

You have an incoming data stream from Twitter and an incoming data stream from Facebook, which are event-based only, rather than time-based. You also have a time interval stream every 10 seconds.

The data is in a key/value pair format. The value field represents a number that defines how many times a hashtag occurs within a Facebook post, or how many times a Tweet that contains a specific hashtag is retweeted.

You must use the appropriate data storage, stream analytics techniques, and Azure HDInsight cluster types for the various tasks associated to the processing pipeline.

You are planning a storage strategy for a large amount of analytic data used for the crime data analytics system. The initial data load involves over 100 billion records, and more than two billion records will be added daily.

You already created an Apache Hadoop cluster in HDInsight premium.

You need to implement the storage strategy to meet the following requirements:

What should you create?

A. a virtual machine (VM) by using the Data Science Virtual Machine template for Windows that has premium storage, a G-series size, and uses Microsoft SQL Server 2016 to store the data

B. an Azure Data Lake Analytics service by using Azure PowerShell

C. an Azure Data Lake Store account by using the Azure portal

D. an Azure Blob storage account by using the Azure portal

Correct Answer: C

References: <https://docs.microsoft.com/en-us/azure/data-lake-store/data-lake-store-get-started-portal>

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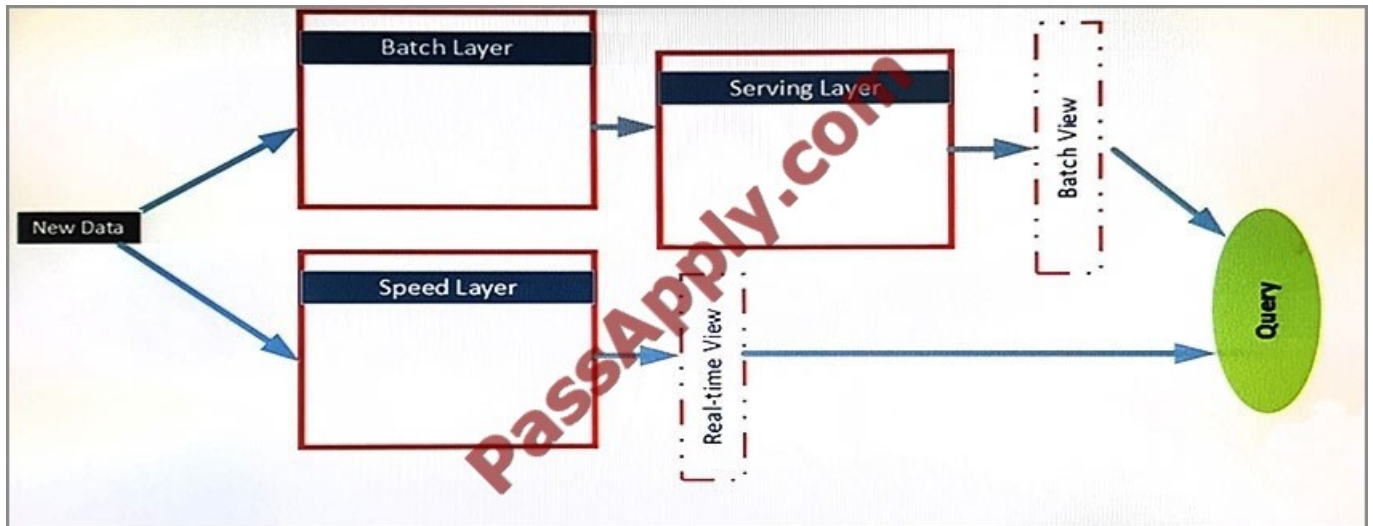
#### QUESTION 4

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is

exactly the same in each question in this series.

You are planning a big data infrastructure by using an Apache Spark cluster in Azure HDInsight. The cluster has 24 processor cores and 512 GB of memory.

The architecture of the infrastructure is shown in the exhibit. (Click the Exhibit button.)



The architecture will be used by the following users:

The data sources in the batch layer share a common storage container. The following data sources are used:

You need to ensure that the analysts can query the logistics data by using JDBC APIs and SQL APIs.

Which technology should you implement?

- A. Apache Phoenix
- B. Apache Spark
- C. Apache Storm
- D. Apache Hive

Correct Answer: A

References: <http://phoenix.apache.org/>

## QUESTION 5

You are configuring the Hive views on an Azure HDInsight cluster that is configured to use Kerberos.

You plan to use the YARN logs to troubleshoot a query that runs against Apache Hadoop.

You need to view the method, the service, and the authenticated account used to run the query.

Which method call should you view in the YARN logs?

- A. HQL
- B. WebHDFS
- C. HDFS C\* API
- D. Ambari RESR API



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Correct Answer: D

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