



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

Perform Data Engineering on Microsoft Azure HDInsight

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**QUESTION 1**

You use YARN to manage the resources for a Spark Thrift Server running on a Linux- based Apache Spark cluster in Azure HDInsight.

You discover that the cluster does not fully utilize the resources. You want to increase resource allocation.

You need to increase the number of executors and the allocation of memory to the Spark Thrift Server driver.

Which two parameters should you modify? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. spark.dynamicAllocation.maxExecutors
- B. spark.cores.max
- C. spark.executor.memory
- D. spark\_thrift\_cmd\_opts
- E. spark.executor.instances

Correct Answer: AC

References: <https://stackoverflow.com/questions/37871194/how-to-tune-spark-executor- number-cores-and-executor-memory>

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**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 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 new topics. Create a file import process to send messages. Start the consumer and run the producer. Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

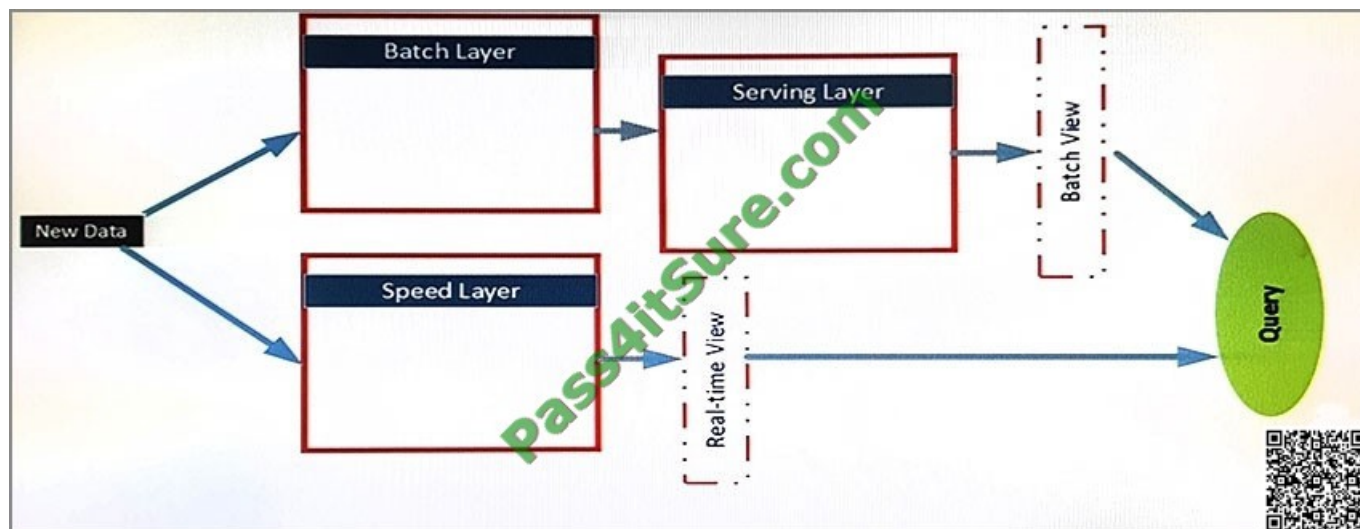


### QUESTION 3

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 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 4



Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series.

Information and details provided in a question apply only to that question.

You need to deploy a NoSQL database to an HDInsight cluster. You will manage the server that host the database by using Remote Desktop. The database must use the key/value pair format in a columnar model.

What should you do?

- A. Use an Azure PowerShell script to create and configure a premium HDInsight cluster. Specify Apache Hadoop as the cluster type and use Linux as the operating system.
- B. Use the Azure portal to create a standard HDInsight cluster. Specify Apache Spark as the cluster type and use Linux as the operating system.
- C. Use an Azure PowerShell script to create a standard HDInsight cluster. Specify Apache HBase as the cluster type and use Windows as the operating system.
- D. Use an Azure PowerShell script to create a standard HDInsight cluster. Specify Apache Storm as the cluster type and use Windows as the operating system.
- E. Use an Azure PowerShell script to create a premium HDInsight cluster. Specify Apache HBase as the cluster type and use Linux as the operating system.
- F. Use an Azure portal to create a standard HDInsight cluster. Specify Apache Interactive Hive as the cluster type and use Linux as the operating system.
- G. Use an Azure portal to create a standard HDInsight cluster. Specify Apache HBase as the cluster type and use Linux as the operating system.

Correct Answer: G

References: <https://docs.microsoft.com/en-us/azure/hdinsight/hdinsight-hbase-overview>

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## QUESTION 5

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series.

Information and details provided in a question apply only to that question.

You need to deploy an HDInsight cluster that will provide in-memory processing, interactive queries, and micro-batch stream processing. The cluster has the following requirements:

What should you do?

- A. Use an Azure PowerShell script to create and configure a premium HDInsight cluster. Specify Apache Hadoop as the cluster type and use Linux as the operating system.
- B. Use the Azure portal to create a standard HDInsight cluster. Specify Apache Spark as the cluster type and use Linux as the operating system.
- C. Use an Azure PowerShell script to create a standard HDInsight cluster. Specify Apache HBase as the cluster type and use Windows as the operating system.



- D. Use an Azure PowerShell script to create a standard HDInsight cluster. Specify Apache Storm as the cluster type and use Windows as the operating system.
- E. Use an Azure PowerShell script to create a premium HDInsight cluster. Specify Apache HBase as the cluster type and use Linux as the operating system.
- F. Use an Azure portal to create a standard HDInsight cluster. Specify Apache Interactive Hive as the cluster type and use Linux as the operating system.
- G. Use an Azure portal to create a standard HDInsight cluster. Specify Apache HBase as the cluster type and use Linux as the operating system.

Correct Answer: B

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

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