



# 70-475<sup>Q&As</sup>

Designing and Implementing Big Data Analytics Solutions

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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

the others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Microsoft Azure subscription that includes Azure Data Lake and Cognitive Services.

An administrator plans to deploy an Azure Data Factory.

You need to ensure that the administrator can create the data factory.

Solution: You add the user to the Data Factory Contributor role.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

Membership in the Data Factory Contributor role lets users do the following things:

\* Create, edit, and delete data factories and child resources including datasets, linked services, pipelines, triggers, and integration runtimes.

Note:

To create Data Factory instances, the user account that you use to sign in to Azure must be a member of the contributor or owner role, or an administrator of the Azure subscription.

References: <https://docs.microsoft.com/en-us/azure/data-factory/concepts-roles-permissions>

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## QUESTION 2

You are designing an application that will perform real-time processing by using Microsoft Azure Stream Analytics.

You need to identify the valid outputs of a Stream Analytics job.

What are three possible outputs that you can use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Microsoft Power BI

B. Azure SQL Database



C. a Hive table in Azure HDInsight

D. Azure Blob storage

E. Azure Redis Cache

Correct Answer: ABD

References: <https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-define-outputs>

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### QUESTION 3

You deploy a Microsoft Azure SQL database.

You create a job to upload customer data to the database.

You discover that the job cannot connect to the database and fails.

You verify that the database runs successfully in Azure.

You need to run the job successfully.

What should you create?

A. a virtual network rule

B. a network security group (NSG)

C. a firewall rule

D. a virtual network

Correct Answer: C

If the application persistently fails to connect to Azure SQL Database, it usually indicates an issue with one of the following:

Firewall configuration. The Azure SQL database or client-side firewall is blocking connections to Azure SQL Database.

Network reconfiguration on the client side: for example, a new IP address or a proxy server.

User error: for example, mistyped connection parameters, such as the server name in the connection string.

References: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-troubleshoot-common-connection-issues>

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### QUESTION 4

You have raw data in Microsoft Azure Blob storage. Each data file is 10 KB and is the XML format.

You identify the following requirements for the data:

The data must be converted into a flat data structure by using a C# MapReduce job.



The data must be moved to an Azure SQL database, which will then be used to visualize the data.

Additional stored procedures must run against the data once the data is in the database.

You need to create the workflow for the Azure Data Factory pipeline.

Which activity type should you use for each requirement? To answer, drag the appropriate workflow components to the correct requirements. Each workflow component may be used once, more than once, or not at all. You may need to drag

the split bar between the panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

**Workflow Components**

- Copy
- HDInsightHive
- HDInsightMapReduce
- HDInsightStreaming
- SQLServerStoredProcedure

**Answer Area**

The data must be converted into a flat data structure by using a C# MapReduce job:

The data must be moved to an Azure SQL database, which will then be used to visualize the data:

Additional stored procedures must run against the data once the data is in the database:

- Workflow Component
- Workflow Component
- Workflow Component

Correct Answer:

**Workflow Components**

- Copy
- HDInsightHive
- 
- 
- 

**Answer Area**

The data must be converted into a flat data structure by using a C# MapReduce job:

The data must be moved to an Azure SQL database, which will then be used to visualize the data:

Additional stored procedures must run against the data once the data is in the database:

- HDInsightMapReduce
- HDInsightStreaming
- SQLServerStoredProcedure

Box 1: HDInsightMapReduce The HDInsight MapReduce activity in a Data Factory pipeline invokes MapReduce program on your own or on-demand HDInsight cluster. Box 2: HDInsightStreaming Box 3: SQLServerStoredProcedure

**QUESTION 5**



You are designing a solution based on the lambda architecture.

The solution has the following layers:

Batch

Speed

Serving

You are planning the data ingestion process and the query execution.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

### Answer Area:

The data ingestion process must only communicate with the batch layer:

The query execution must communicate with both the serving layer and the speed layer:

You can use Kafka to execute the queries:

Correct Answer:



Answer Area:

The data ingestion process must only communicate with the batch layer:

Yes  
 No

The query execution must communicate with both the serving layer and the speed layer:

Yes  
 No

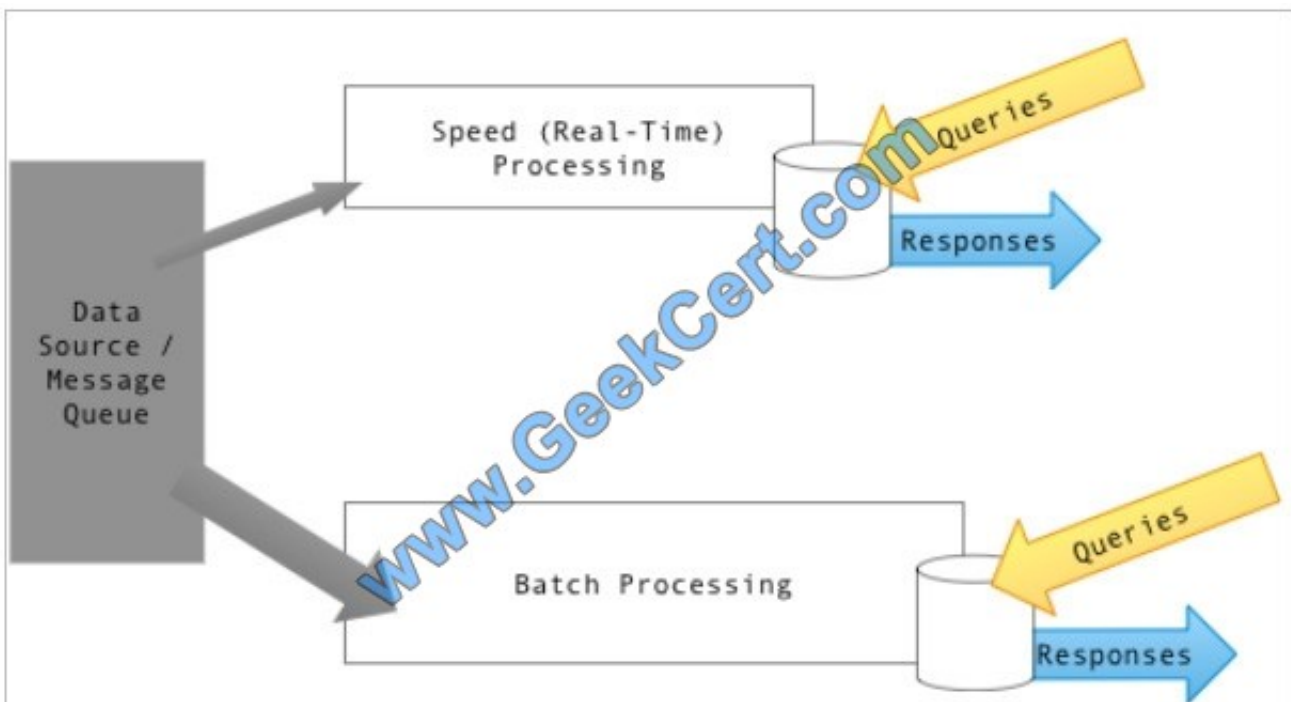
You can use Kafka to execute the queries:

Yes  
 No

Box 1: No

Box 2: No

Output from the batch and speed layers are stored in the serving layer, which responds to ad-hoc queries by returning precomputed views or building views from the processed data.



Box 3: Yes.

We are excited to announce Interactive Queries, a new feature for stream processing with Apache Kafka. Interactive Queries allows you to get more than just processing from streaming.

Note: Lambda architecture is a popular choice where you see stream data pipelines applied (speed layer). Architects



can combine Apache Kafka or Azure Event Hubs (ingest) with Apache Storm (event processing), Apache HBase (speed

layer), Hadoop for storing the master dataset (batch layer), and, finally, Microsoft Power BI for reporting and visualization (serving layer).

Reference:

<https://www.confluent.io/blog/unifying-stream-processing-and-interactive-queries-in-apache-kafka/>

[https://en.wikipedia.org/wiki/Lambda\\_architecture](https://en.wikipedia.org/wiki/Lambda_architecture)

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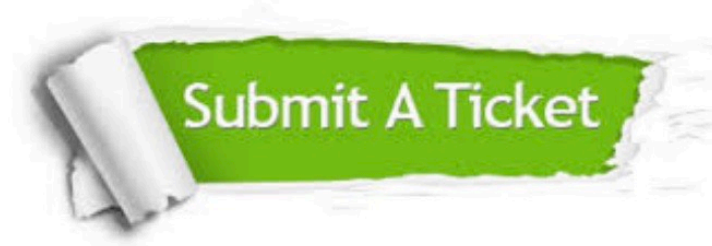
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