



# DP-201<sup>Q&As</sup>

Designing an Azure Data Solution

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### QUESTION 1

DRAG DROP

You are designing a Spark job that performs batch processing of daily web log traffic.

When you deploy the job in the production environment, it must meet the following requirements:

1.  
Run once a day.
2.  
Display status information on the company intranet as the job runs.

You need to recommend technologies for triggering and monitoring jobs.

Which technologies should you recommend? To answer, drag the appropriate technologies to the correct locations. Each technology may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll

to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

## Answer Area

Technologies	Requirement	Technology
Livy	Triggering of jobs	<input type="text"/>
Beeline	Monitoring of jobs	<input type="text"/>
Azure Logic App		
Azure API App		

Correct Answer:



## Answer Area

### Technologies

Azure Logic App

Azure API App

### Requirement

Triggering of jobs

Monitoring of jobs

### Technology

Livy

Beeline

Box 1: Livy

You can use Livy to run interactive Spark shells or submit batch jobs to be run on Spark.

Box 2: Beeline

Apache Beeline can be used to run Apache Hive queries on HDInsight. You can use Beeline with Apache Spark.

Note: Beeline is a Hive client that is included on the head nodes of your HDInsight cluster. Beeline uses JDBC to connect to HiveServer2, a service hosted on your HDInsight cluster. You can also use Beeline to access Hive on HDInsight

remotely over the internet.

References:

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

<https://docs.microsoft.com/en-us/azure/hdinsight/hadoop/apache-hadoop-use-hive-beeline>

### QUESTION 2

You need to design the storage for the visual monitoring system. Which storage solution should you recommend?

- A. Azure Blob storage
- B. Azure Table storage
- C. Azure SQL database



#### D. Azure Media Services

Correct Answer: A

Azure Blobs: A massively scalable object store for text and binary data.

Scenario:

The visual monitoring system is a network of approximately 1,000 cameras placed near highways that capture images of vehicle traffic every 2 seconds. The cameras record high resolution images. Each image is approximately 3 MB in size.

The solution must allow for searches of vehicle images by license plate to support law enforcement investigations. Searches must be able to be performed using a query language and must support fuzzy searches to compensate for license

plate detection errors.

Incorrect Answers:

B: Azure Tables: A NoSQL store for schemaless storage of structured data.

D: Microsoft Azure Media Services (AMS) is a leading full-service media platform for securely delivering live and on-demand video to virtually any device.

Reference: <https://docs.microsoft.com/en-us/azure/storage/common/storage-introduction>

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### QUESTION 3

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

A company is developing a solution to manage inventory data for a group of automotive repair shops. The solution will use Azure SQL Data Warehouse as the data store.

Shops will upload data every 10 days.

Data corruption checks must run each time data is uploaded. If corruption is detected, the corrupted data must be removed.

You need to ensure that upload processes and data corruption checks do not impact reporting and analytics processes that use the data warehouse.

Proposed solution: Create a user-defined restore point before data is uploaded. Delete the restore point after data corruption checks complete.

Does the solution meet the goal?

A. Yes



B. No

Correct Answer: A

**User-Defined Restore Points** This feature enables you to manually trigger snapshots to create restore points of your data warehouse before and after large modifications. This capability ensures that restore points are logically consistent, which provides additional data protection in case of any workload interruptions or user errors for quick recovery time.

**Note:** A data warehouse restore is a new data warehouse that is created from a restore point of an existing or deleted data warehouse. Restoring your data warehouse is an essential part of any business continuity and disaster recovery strategy because it re-creates your data after accidental corruption or deletion.

References: <https://docs.microsoft.com/en-us/azure/sql-data-warehouse/backup-and-restore>

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#### QUESTION 4

A company has many applications. Each application is supported by separate on-premises databases. You must migrate the databases to Azure SQL Database. You have the following requirements:

1.

Organize databases into groups based on database usage.

2.

Define the maximum resource limit available for each group of databases.

You need to recommend technologies to scale the databases to support expected increases in demand.

What should you recommend?

A. Read scale-out

B. Managed instances

C. Elastic pools

D. Database sharding

Correct Answer: C

SQL Database elastic pools are a simple, cost-effective solution for managing and scaling multiple databases that have varying and unpredictable usage demands. The databases in an elastic pool are on a single Azure SQL Database server

and share a set number of resources at a set price.

You can configure resources for the pool based either on the DTU-based purchasing model or the vCore-based purchasing model.

Incorrect Answers:

D: Database sharding is a type of horizontal partitioning that splits large databases into smaller components, which are faster and easier to manage.



References: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-elastic-pool>

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### QUESTION 5

You need to design the solution for analyzing customer data.

What should you recommend?

- A. Azure Databricks
- B. Azure Data Lake Storage
- C. Azure SQL Data Warehouse
- D. Azure Cognitive Services
- E. Azure Batch

Correct Answer: A

Customer data must be analyzed using managed Spark clusters.

You create spark clusters through Azure Databricks.

References:

<https://docs.microsoft.com/en-us/azure/azure-databricks/quickstart-create-databricks-workspace-portal>

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