



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

Designing an Azure Data Solution

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### QUESTION 1

You need to recommend a solution for storing customer data. What should you recommend?

- A. Azure SQL Data Warehouse
- B. Azure Stream Analytics
- C. Azure Databricks
- D. Azure SQL Database

Correct Answer: C

From the scenario:

Customer data must be analyzed using managed Spark clusters.

All cloud data must be encrypted at rest and in transit. The solution must support: parallel processing of customer data.

References:

<https://www.microsoft.com/developerblog/2019/01/18/running-parallel-apache-spark-notebook-workloads-on-azure-databricks/>

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### QUESTION 2

Which consistency level should you use for Health Interface?

- A. Consistent Prefix
- B. Session
- C. Bounded Staleness
- D. Strong

Correct Answer: D

Scenario: ADatum identifies the following requirements for the Health Interface application: ..reads must display be the most recent committed version of an item.

Azure Cosmos DB consistency levels include:

Strong: Strong consistency offers a linearizability guarantee. Linearizability refers to serving requests concurrently. The reads are guaranteed to return the most recent committed version of an item. A client never sees an uncommitted or partial write. Users are always guaranteed to read the latest committed write.

References:

<https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels>

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### QUESTION 3

A company stores large datasets in Azure, including sales transactions and customer account information. You must design a solution to analyze the data. You plan to create the following HDInsight clusters:

Cluster	Requirement
Sales	This cluster must be optimized for ad hoc HIVE queries.
Accounts	This cluster must be optimized for HIVE queries that are used in batch processes.

You need to ensure that the clusters support the query requirements.

Which cluster types should you recommend? To answer, select the appropriate configuration in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

## Answer Area

Cluster	Cluster type
Sales	<div style="border: 1px solid black; padding: 5px;"><div style="background-color: #ccc; padding: 2px; display: flex; justify-content: space-between;"><span></span><span>▼</span></div><ul style="list-style-type: none"><li>Storm</li><li>Hadoop</li><li>Interactive Query</li><li>Kafka</li></ul></div>
Accounts	<div style="border: 1px solid black; padding: 5px;"><div style="background-color: #ccc; padding: 2px; display: flex; justify-content: space-between;"><span></span><span>▼</span></div><ul style="list-style-type: none"><li>Spark</li><li>Hadoop</li><li>Interactive Query</li><li>Kafka</li></ul></div>

Correct Answer:



## Answer Area

Cluster	Cluster type
Sales	<div style="border: 1px solid black; padding: 5px;"><div style="background-color: #cccccc; padding: 2px; display: flex; justify-content: space-between;"><span></span><span>▼</span></div><ul style="list-style-type: none"><li>Storm</li><li>Hadoop</li><li style="background-color: #d9ead3;">Interactive Query</li><li>Kafka</li></ul></div>
Accounts	<div style="border: 1px solid black; padding: 5px;"><div style="background-color: #cccccc; padding: 2px; display: flex; justify-content: space-between;"><span></span><span>▼</span></div><ul style="list-style-type: none"><li>Spark</li><li style="background-color: #d9ead3;">Hadoop</li><li>Interactive Query</li><li>Kafka</li></ul></div>

Box 1: Interactive Query

Choose Interactive Query cluster type to optimize for ad hoc, interactive queries.

Box 2: Hadoop

Choose Apache Hadoop cluster type to optimize for Hive queries used as a batch process.

Note: In Azure HDInsight, there are several cluster types and technologies that can run Apache Hive queries. When you create your HDInsight cluster, choose the appropriate cluster type to help optimize performance for your workload needs.

For example, choose Interactive Query cluster type to optimize for ad hoc, interactive queries. Choose Apache Hadoop cluster type to optimize for Hive queries used as a batch process. Spark and HBase cluster types can also run Hive queries.

References:

<https://docs.microsoft.com/bs-latn-ba/azure/hdinsight/hdinsight-hadoop-optimize-hive-query?toc=%2Fko-kr%2Fazure%2Fhdinsight%2Finteractive-query%2FTOC.json&bc=%2Fbs-latn-ba%2Fazure%2Fbread%2Ftoc.json>

### QUESTION 4



You are designing a solution for the ad hoc analysis of data in Azure Databricks notebooks. The data will be stored in Azure Blob storage.

You need to ensure that Blob storage will support the recovery of the data if the data is overwritten accidentally.

What should you recommend?

- A. Enable soft delete.
- B. Add a resource lock.
- C. Enable diagnostics logging.
- D. Use read-access geo-redundant storage (RA-GRS).

Correct Answer: A

Soft delete protects blob data from being accidentally or erroneously modified or deleted. When soft delete is enabled for a storage account, blobs, blob versions (preview), and snapshots in that storage account may be recovered after they are deleted, within a retention period that you specify.

Reference: <https://docs.microsoft.com/en-us/azure/storage/blobs/soft-delete-overview>

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## QUESTION 5

### HOTSPOT

You design data engineering solutions for a company.

You must integrate on-premises SQL Server data into an Azure solution that performs Extract-Transform-Load (ETL) operations have the following requirements:

1. Develop a pipeline that can integrate data and run notebooks.
2. Develop notebooks to transform the data.
3. Load the data into a massively parallel processing database for later analysis.

You need to recommend a solution.

What should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



## Answer Area

### Requirement

### Service

Integrate the on-premises data into the cloud.

	▼
Azure Databricks	
Azure Data Factory	
Azure SQL Data Warehouse	
Azure Batch	

Develop notebooks to transform the data.

	▼
Azure Databricks	
Azure Data Factory	
Azure SQL Data Warehouse	
Azure Batch	

Run notebooks.

	▼
Azure Databricks	
Azure Data Factory	
Azure SQL Data Warehouse	
Azure Batch	

Load the data.

	▼
Azure Databricks	
Azure Data Factory	
Azure SQL Data Warehouse	
Azure Batch	

Store the transformed data.

	▼
Azure Databricks	
Azure Data Factory	
Azure SQL Data Warehouse	
Azure Batch	

Correct Answer:



## Answer Area

### Requirement

### Service

Integrate the on-premises data into the cloud.

- Azure Databricks
- Azure Data Factory
- Azure SQL Data Warehouse
- Azure Batch

Develop notebooks to transform the data.

- Azure Databricks
- Azure Data Factory
- Azure SQL Data Warehouse
- Azure Batch

Run notebooks.

- Azure Databricks
- Azure Data Factory
- Azure SQL Data Warehouse
- Azure Batch

Load the data.

- Azure Databricks
- Azure Data Factory
- Azure SQL Data Warehouse
- Azure Batch

Store the transformed data.

- Azure Databricks
- Azure Data Factory
- Azure SQL Data Warehouse
- Azure Batch



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