



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

Designing an Azure Data Solution

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**QUESTION 1**

You need to recommend a storage solution to store flat files and columnar optimized files. The solution must meet the following requirements:

1.

Store standardized data that data scientists will explore in a curated folder.

2.

Ensure that applications cannot access the curated folder.

3.

Store staged data for import to applications in a raw folder.

4.

Provide data scientists with access to specific folders in the raw folder and all the content the curated folder. Which storage solution should you recommend?

A. Azure SQL Data Warehouse

B. Azure Blob storage

C. Azure Data Lake Storage Gen2

D. Azure SQL Database

Correct Answer: B

Azure Blob Storage containers is a general purpose object store for a wide variety of storage scenarios. Blobs are stored in containers, which are similar to folders. Incorrect Answers:

C: Azure Data Lake Storage is an optimized storage for big data analytics workloads.

References: <https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/data-storage>

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**QUESTION 2****HOTSPOT**

Which Azure data storage solution should you recommend for each application? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



## Answer Area

Health Review:

	▼
Azure Cosmos DB	
Azure SQL Data Warehouse	
Azure SQL Database	

Health Interface:

	▼
Azure Cosmos DB	
Azure SQL Data Warehouse	
Azure SQL Database	

Health Insights:

	▼
Azure Cosmos DB	
Azure SQL Data Warehouse	
Azure SQL Database	

Correct Answer:



## Answer Area

Health Review:

	▼
Azure Cosmos DB	
Azure SQL Data Warehouse	
Azure SQL Database	

Health Interface:

	▼
Azure Cosmos DB	
Azure SQL Data Warehouse	
Azure SQL Database	

Health Insights:

	▼
Azure Cosmos DB	
Azure SQL Data Warehouse	
Azure SQL Database	

Health Review: Azure SQL Database

Scenario: ADatum identifies the following requirements for the Health Review application:

1.

Ensure that sensitive health data is encrypted at rest and in transit.

2.

Tag all the sensitive health data in Health Review. The data will be used for auditing.

Health Interface: Azure Cosmos DB

ADatum identifies the following requirements for the Health Interface application:

1.

Upgrade to a data storage solution that will provide flexible schemas and increased throughput for writing data. Data must be regionally located close to each hospital, and reads must display be the most recent committed version of an item.

2.

Reduce the amount of time it takes to add data from new hospitals to Health Interface.



3.

Support a more scalable batch processing solution in Azure.

4.

Reduce the amount of development effort to rewrite existing SQL queries.

Health Insights: Azure SQL Data Warehouse

Azure SQL Data Warehouse is a cloud-based enterprise data warehouse that leverages massively parallel processing (MPP) to quickly run complex queries across petabytes of data. Use SQL Data Warehouse as a key component of a big

data solution.

You can access Azure SQL Data Warehouse (SQL DW) from Databricks using the SQL Data Warehouse connector (referred to as the SQL DW connector), a data source implementation for Apache Spark that uses Azure Blob Storage, and

PolyBase in SQL DW to transfer large volumes of data efficiently between a Databricks cluster and a SQL DW instance.

Scenario: ADatum identifies the following requirements for the Health Insights application:

The new Health Insights application must be built on a massively parallel processing (MPP) architecture that will support the high performance of joins on large fact tables

References:

<https://docs.databricks.com/data/data-sources/azure/sql-data-warehouse.html>

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### QUESTION 3

You manage a solution that uses Azure HDInsight clusters.

You need to implement a solution to monitor cluster performance and status.

Which technology should you use?

- A. Azure HDInsight.NET SDK
- B. Azure HDInsight REST API
- C. Ambari REST API
- D. Azure Log Analytics
- E. Ambari Web UI

Correct Answer: E

Ambari is the recommended tool for monitoring utilization across the whole cluster. The Ambari dashboard shows easily glanceable widgets that display metrics such as CPU, network, YARN memory, and HDFS disk usage. The specific metrics shown depend on cluster type. The "Hosts" tab shows metrics for individual nodes so you can ensure the load



on your cluster is evenly distributed. The Apache Ambari project is aimed at making Hadoop management simpler by developing software for provisioning, managing, and monitoring Apache Hadoop clusters. Ambari provides an intuitive, easy-to-use Hadoop management web UI backed by its RESTful APIs.

Reference: <https://azure.microsoft.com/en-us/blog/monitoring-on-hdinsight-part-1-an-overview/>  
<https://ambari.apache.org/>

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#### QUESTION 4

##### 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



**QUESTION 5****HOTSPOT**

You plan to create a real-time monitoring app that alerts users when a device travels more than 200 meters away from a designated location.

You need to design an Azure Stream Analytics job to process the data for the planned app. The solution must minimize the amount of code developed and the number of technologies used.

What should you include in the Stream Analytics job? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Input type:

Input source:

Function:

Correct Answer:



## Answer Area

Input type:

Input source:

Function:

Input type: Stream

You can process real-time IoT data streams with Azure Stream Analytics.

Input source: Azure IoT Hub

In a real-world scenario, you could have hundreds of these sensors generating events as a stream. Ideally, a gateway device would run code to push these events to Azure Event Hubs or Azure IoT Hubs.

Function: Geospatial

With built-in geospatial functions, you can use Azure Stream Analytics to build applications for scenarios such as fleet management, ride sharing, connected cars, and asset tracking.

Reference:

<https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-get-started-with-azure-stream-analytics-to-process-data-from-iot-devices>

<https://docs.microsoft.com/en-us/azure/stream-analytics/geospatial-scenarios>



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