



DP-201^{Q&As}

Designing an Azure Data Solution

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QUESTION 1

You need to design the image processing and storage solutions.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Image processing

	▼
Azure HDInsight	
Azure Databricks	
Azure Batch	
Azure Cognitive Services	

data storage for tagging data

	▼
Azure Blob Storage	
Azure Table Storage	
Azure Cosmos DB	
Azure SQL Database	

Correct Answer:



Image processing

Azure HDInsight
Azure Databricks
Azure Batch
Azure Cognitive Services

data storage for tagging data

Azure Blob Storage
Azure Table Storage
Azure Cosmos DB
Azure SQL Database

From the scenario:

The company identifies the following business requirements:

1.

You must transfer all images and customer data to cloud storage and remove on-premises servers.

2.

You must develop an image object and color tagging solution.

The solution has the following technical requirements:

1.

Image data must be stored in a single data store at minimum cost.

2.

All data must be backed up in case disaster recovery is required.

All cloud data must be encrypted at rest and in transit. The solution must support: hyper-scale storage of images

References: <https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/batch-processing>
<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-service-tier-hyperscale>

QUESTION 2



You are designing an Azure Data Factory pipeline for processing data. The pipeline will process data that is stored in general-purpose standard Azure storage.

You need to ensure that the compute environment is created on-demand and removed when the process is completed.

Which type of activity should you recommend?

- A. Databricks Python activity
- B. Data Lake Analytics U-SQL activity
- C. HDInsight Pig activity
- D. Databricks Jar activity

Correct Answer: C

The HDInsight Pig activity in a Data Factory pipeline executes Pig queries on your own or on-demand HDInsight cluster.

References: <https://docs.microsoft.com/en-us/azure/data-factory/transform-data-using-hadoop-pig>

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>

QUESTION 4

What should you do to improve high availability of the real-time data processing solution?

- A. Deploy identical Azure Stream Analytics jobs to paired regions in Azure.
- B. Deploy a High Concurrency Databricks cluster.
- C. Deploy an Azure Stream Analytics job and use an Azure Automation runbook to check the status of the job and to start the job if it stops.
- D. Set Data Lake Storage to use geo-redundant storage (GRS).

Correct Answer: A

Guarantee Stream Analytics job reliability during service updates Part of being a fully managed service is the capability to introduce new service functionality and improvements at a rapid pace. As a result, Stream Analytics can have a service update deploy on a weekly (or more frequent) basis. No matter how much testing is done there is still a risk that an existing, running job may break due to the introduction of a bug. If you are running mission critical jobs, these risks need to be avoided. You can reduce this risk by following Azure's paired region model.

Scenario: The application development team will create an Azure event hub to receive real-time sales data, including store number, date, time, product ID, customer loyalty number, price, and discount amount, from the point of sale (POS) system and output the data to data storage in Azure

Reference: <https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-job-reliability>

QUESTION 5

You need to design the image processing solution to meet the optimization requirements for image tag data.

What should you configure? To answer, drag the appropriate setting to the correct drop targets.

Each source 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



Correct Answer:

Answer Area



Tagging data must be uploaded to the cloud from the New York office location.

Tagging data must be replicated to regions that are geographically close to company office locations.



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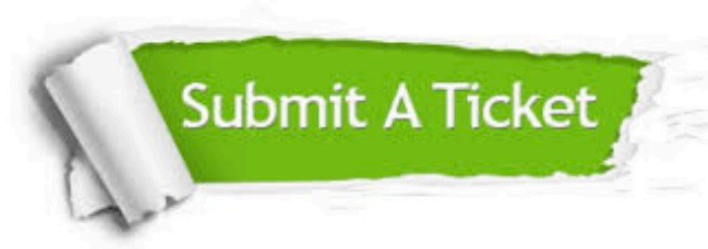
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