



DP-200^{Q&As}

Implementing an Azure Data Solution

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QUESTION 1

You have an Azure SQL database named DB1 that contains a table named Table1. Table1 has a field named Customer_ID that is varchar(22).

You need to implement masking for the Customer_ID field to meet the following requirements:

The first two prefix characters must be exposed.

The last four prefix characters must be exposed.

All other characters must be masked.

Solution: You implement data masking and use a credit card function mask.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Must use Custom Text data masking, which exposes the first and last characters and adds a custom padding string in the middle.

References: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-dynamic-data-masking-get-started>

QUESTION 2

Your company uses several Azure HDInsight clusters.

The data engineering team reports several errors with some applications using these clusters.

You need to recommend a solution to review the health of the clusters.

What should you include in your recommendation?

A. Azure Automation

B. Log Analytics

C. Application Insights

Correct Answer: B

Azure Monitor logs integration. Azure Monitor logs enables data generated by multiple resources such as HDInsight clusters, to be collected and aggregated in one place to achieve a unified monitoring experience.

As a prerequisite, you will need a Log Analytics Workspace to store the collected data. If you have not already created one, you can follow the instructions for creating a Log Analytics Workspace.

You can then easily configure an HDInsight cluster to send many workload-specific metrics to Log Analytics.



References:

<https://azure.microsoft.com/sv-se/blog/monitoring-on-azure-hdinsight-part-2-cluster-health-and-availability/>

QUESTION 3

SIMULATION Use the following login credentials as needed: Azure Username: xxxxx

Azure Password: xxxxx The following information is for technical support purposes only: Lab Instance: 10543936



You need to ensure that users in the West US region can read data from a local copy of an Azure Cosmos DB database named cosmos10543936.

To complete this task, sign in to the Azure portal.

NOTE: This task might take several minutes to complete. You can perform other tasks while the task completes or end this section of the exam.



Correct Answer: See the below.

You can enable Availability Zones by using Azure portal when creating an Azure Cosmos account. You can enable Availability Zones by using Azure portal.

Step 1: enable the Geo-redundancy, Multi-region Writes

1.

In Azure Portal search for and select Azure Cosmos DB.

2.

Locate the Cosmos DB database named cosmos10543936

3.

Access the properties for cosmos10543936

4.

enable the Geo-redundancy, Multi-region Writes. Location: West US region

Instance Details

- * Account Name: myaccount1
- * API: Core (SQL)
- Apache Spark: Enable / Disable (You're on the waitlist for Azure Cosmos with support for Apache Spark preview)
- * Location: (Asia Pacific) Southeast Asia

Geo-Redundancy: Enable / Disable

Multi-region Writes: Enable / Disable

Availability Zones: Enable / Disable

Step 2: Add region from your database account

1.

In to Azure portal, go to your Azure Cosmos account, and open the Replicate data globally menu.

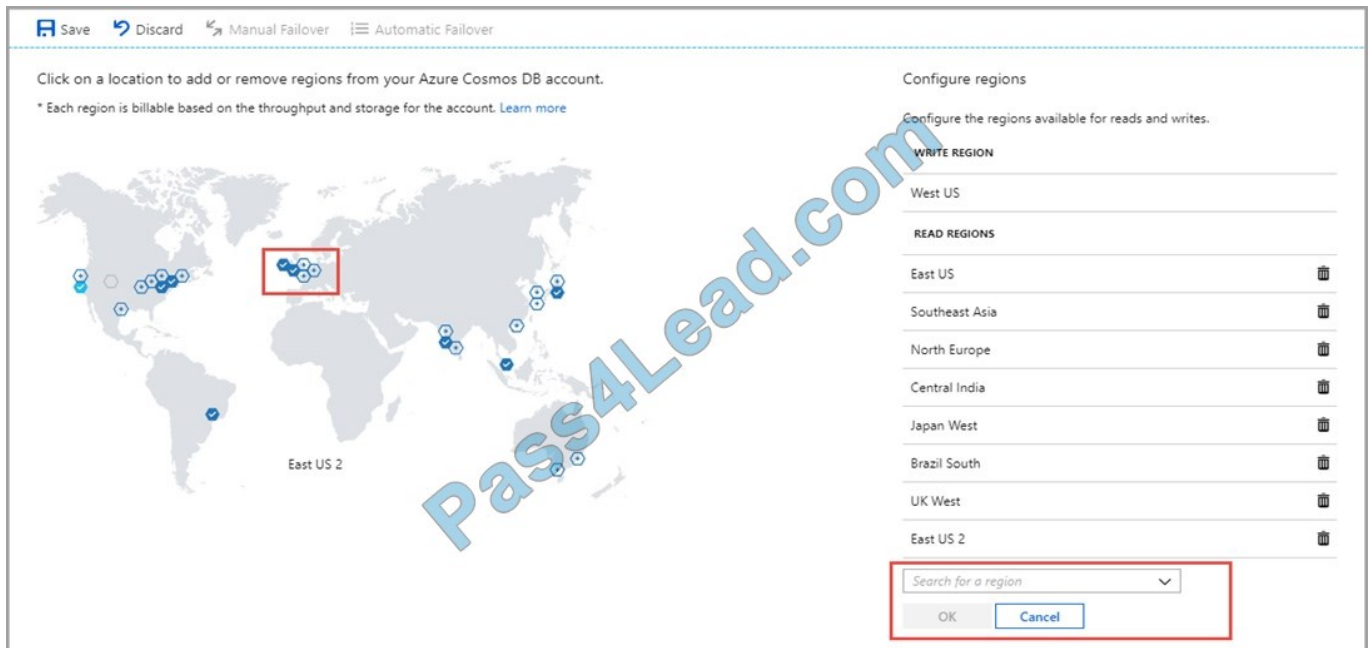
2.

To add regions, select the hexagons on the map with the + label that corresponds to your desired region(s). Alternatively, to add a region, select the + Add region option and choose a region from the drop-down menu. Add: West US region

3.



To save your changes, select OK.



Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/high-availability> <https://docs.microsoft.com/en-us/azure/cosmos-db/how-to-manage-database-account>

QUESTION 4

You have an enterprise-wide Azure Data Lake Storage Gen2 account. The data lake is accessible only through an Azure virtual network named VNET1.

You are building a SQL pool in Azure Synapse that will use data from the data lake.

Your company has a sales team. All the members of the sales team are in an Azure Active Directory group named Sales. POSIX controls are used to assign the Sales group access to the files in the data lake.

You plan to load data to the SQL pool every hour.

You need to ensure that the SQL pool can load the sales data from the data lake.

Which three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Create a managed identity.
- B. Use the shared access signature (SAS) as the credentials for the data load process.
- C. Add the managed identity to the Sales group.
- D. Add your Azure Active Directory (Azure AD) account to the Sales group.
- E. Create a shared access signature (SAS).



F. Use the managed identity as the credentials for the data load process.

Correct Answer: ACD

A: The managed identity grants permissions to the dedicated SQL pools in the workspace.

Note: Managed identity for Azure resources is a feature of Azure Active Directory. The feature provides Azure services with an automatically managed identity in Azure AD

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/security/synapse-workspace-managed-identity>

QUESTION 5

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

You have a container named Sales in an Azure Cosmos DB database. Sales has 120 GB of data. Each entry in Sales has the following structure.

```
{  
  OrderId: number,  
  OrderDetailId: number,  
  ProductName: string,  
  other information that might vary...  
}
```

The partition key is set to the OrderId attribute.

Users report that when they perform queries that retrieve data by ProductName, the queries take longer than expected to complete.

You need to reduce the amount of time it takes to execute the problematic queries.

Solution: You increase the Request Units (RUs) for the database.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

To scale the provisioned throughput for your application, you can increase or decrease the number of RUs at any time.

Note: The cost of all database operations is normalized by Azure Cosmos DB and is expressed by Request Units (or RUs, for short). You can think of RUs per second as the currency for throughput. RUs per second is a rate-based currency. It abstracts the system resources such as CPU, IOPS, and memory that are required to perform the database



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operations supported by Azure Cosmos DB.

Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/request-units>

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