#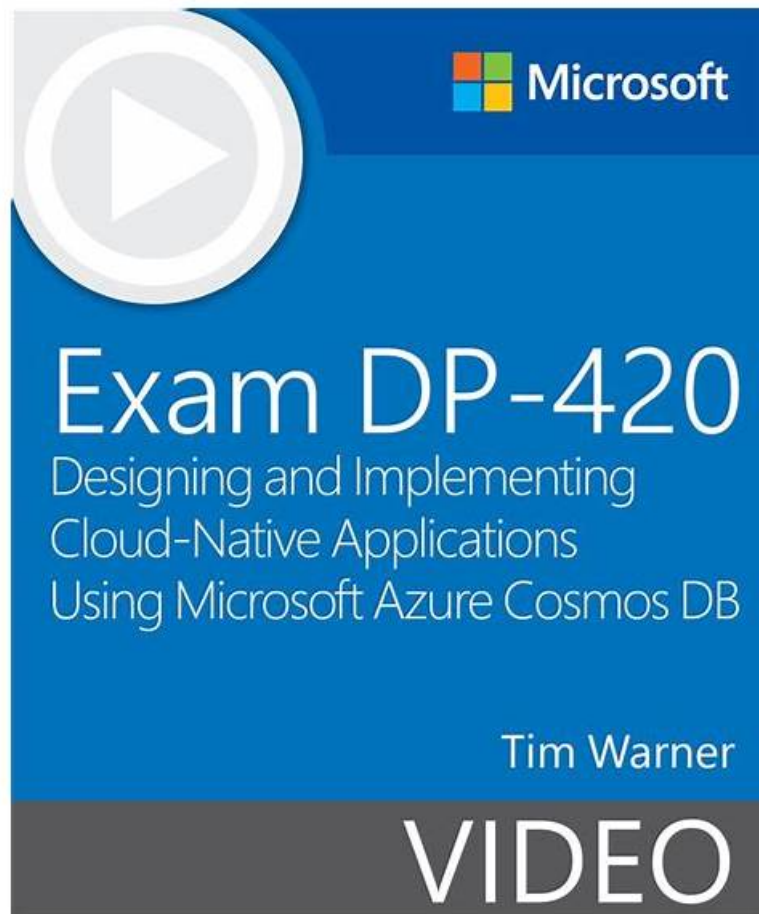 2026 Updated Related DP-420 Exams | Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB 100% Free Practice Guide

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Microsoft DP-420 Certification Exam is designed for individuals who are interested in demonstrating their knowledge and skills in designing and implementing cloud-native applications using Microsoft Azure Cosmos DB. Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB certification exam is ideal for developers, architects, and IT professionals who are responsible for designing, building, and deploying cloud-native applications using Cosmos DB.

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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q89-Q94):

NEW QUESTION # 89

You have an Azure Cosmos DB for NoSQL account that frequently receives the same three queries.
You need to configure indexing to minimize RUs consumed by the queries.
Which type of index should you use for each query? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation
Box 1 = Range Azure Cosmos DB supports three types of indexes: range, spatial and composite. For the query you provided, which is an equality query on a single property, the best type of index to use is range. Range index is based on an ordered tree-like structure and it is used for equality queries, range queries and checking for the presence of a property1. Range index also supports any string or number .
Box 2 = Composite
Azure Cosmos DB supports three types of indexes: range, spatial and composite. For the query you provided, which is an order by query on two properties, the best type of index to use is composite. Composite index is used for optimizing order by queries on multiple properties1. Composite index allows you to specify a list of property paths and sort orders that are used for ordering items2.
Box 3 = spatial
Azure Cosmos DB supports three types of indexes: range, spatial and composite. For the query you provided, which is a spatial query on a point property, the best type of index to use is spatial. Spatial index is used for querying items based on their location or proximity to a given point1. Spatial index supports point, polygon and linestring data types2.

NEW QUESTION # 90

You are designing an Azure Cosmos DB Core (SQL) API solution to store data from IoT devices. Writes from the devices will be occur every second.
The following is a sample of the data.

You need to select a partition key that meets the following requirements for writes:
Minimizes the partition skew
Avoids capacity limits
Avoids hot partitions
What should you do?

- A. Use timestamp as the partition key.
- B. Create a new synthetic key that contains deviceId and deviceManufacturer.
- C. Create a new synthetic key that contains deviceId and a random number.
- D. Create a new synthetic key that contains deviceId and sensor1Value.

Answer: C

Explanation:
Use a partition key with a random suffix. Distribute the workload more evenly is to append a random number at the end of the partition key value. When you distribute items in this way, you can perform parallel write operations across partitions.
Incorrect Answers:
A: You will also not like to partition the data on "DateTime", because this will create a hot partition. Imagine you have partitioned the data on time, then for a given minute, all the calls will hit one partition. If you need to retrieve the data for a customer, then it will be a fan-out query because data may be distributed on all the partitions.
B: Senser1Value has only two values.
C: All the devices could have the same manufacturer.

NEW QUESTION # 91
You have an Azure Cosmos DB container named container1.
You need to insert an item into contained. The solution must ensure that the item is deleted automatically after two hours.
How should you complete the item definition? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer:

Explanation:

NEW QUESTION # 92
You have an Azure subscription that contains a resource group named RG1. RG1 contains an Azure Cosmos DB for NoSQL account named account1.
You plan to audit changes to the control plane of account1.
You need to ensure that audit events include the details of the security principal that performs each control plane change.
How should you complete the az command? To answer select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer:

Explanation:
Explanation:

NEW QUESTION # 93
You have a container named container1 in an Azure Cosmos DB Core (SQL) API account. The container1 container has 120 GB of data.
The following is a sample of a document in container1.
The orderId property is used as the partition key.
For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Answer:

Explanation:
Explanation:
Box 1: Yes
Records with different OrderIDs will match.
Box 2: Yes
Records with different OrderIDs will match.
Box 3: No
Only records with one specific OrderId will match

NEW QUESTION # 94
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