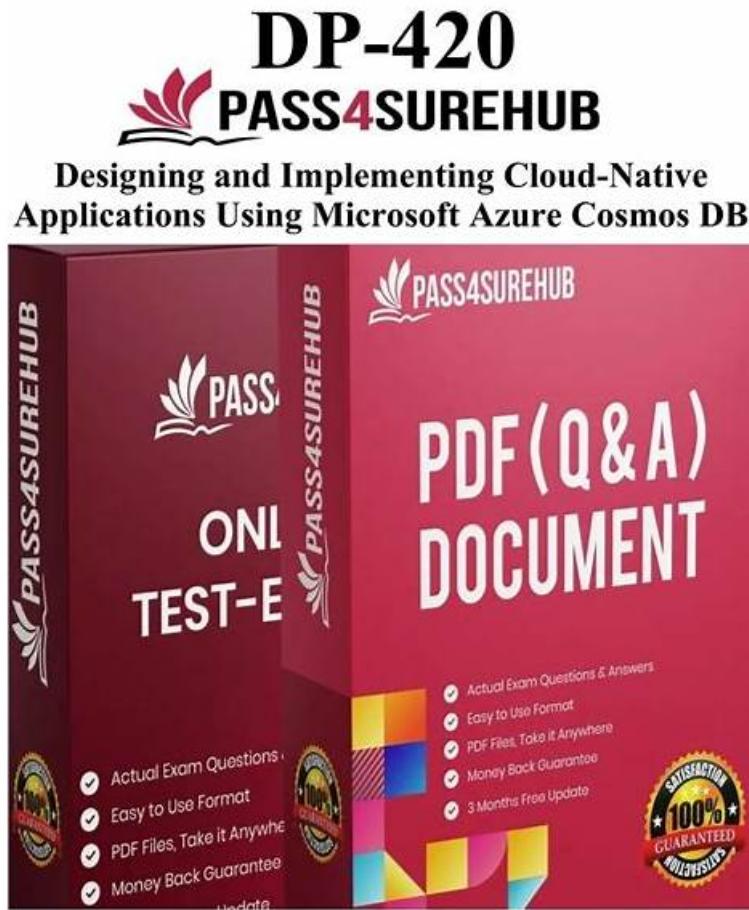


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Microsoft DP-420 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Maintain an Azure Cosmos DB Solution: This section covers monitoring, troubleshooting, and securing Azure Cosmos DB solutions. Developers master backup and restore procedures, implement data movement, and streamline processes using DevOps. These skills ensure operational reliability and safeguard data integrity in production environments.
Topic 2	<ul style="list-style-type: none"> Design and Implement Data Models: This topic equips Microsoft developers to design and implement non-relational data models for Azure Cosmos DB for NoSQL, emphasizing partitioning strategies, database sizing, and scaling. Developers master connectivity using the Azure Cosmos DB SDK and SQL language for NoSQL, ensuring seamless data access. Additionally, server-side programming with JavaScript empowers robust solutions tailored to specific application needs.
Topic 3	<ul style="list-style-type: none"> Design and Implement Data Distribution: Microsoft developers delve into designing replication strategies and implementing multi-region writes for Azure Cosmos DB. These skills ensure high availability, fault tolerance, and enhanced global performance for distributed applications, making them vital for enterprise-grade solutions.
Topic 4	<ul style="list-style-type: none"> Integrate an Azure Cosmos DB Solution: This topic focuses on enabling analytical workloads and integrating Azure Cosmos DB across services. Developers learn to leverage cross-service integrations for cohesive solutions, driving advanced analytics and operational efficiency in cloud-native applications.
Topic 5	<ul style="list-style-type: none"> Optimize an Azure Cosmos DB Solution: Developers gain expertise in optimizing query performance using Azure Cosmos DB for NoSQL APIs, implementing change feeds, and crafting effective indexing strategies. This topic ensures solutions are performant, scalable, and adaptive to evolving data requirements, enhancing application responsiveness.

Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q64-Q69):

NEW QUESTION # 64

You plan to create an Azure Cosmos DB account that will use the NoSQL API.

You need to create a grouping strategy for items that will be stored in the account. The solution must ensure that write and read operations on the items can be performed within the same transact!

What should you use to group the items?

- A. containers
- B. databases
- C. physical partitions
- D. logical partitions

Answer: D

NEW QUESTION # 65

You have a container in an Azure Cosmos DB Core (SQL) API account.

You need to use the Azure Cosmos DB SDK to replace a document by using optimistic concurrency.

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

NOTE: Each correct selection is worth one point.

RequestOptions property to set:

	Microsoft	▼
	AccessCondition	▼
	ConsistencyLevel	▼
	SessionToken	▼

Document property that will be compared:

	▼	
	_etag	▼
	_id	▼
	_rid	▼

Answer:

Explanation:

RequestOptions property to set:

	▼	
	AccessCondition	▼
	ConsistencyLevel	▼
	SessionToken	▼

Document property that will be compared:

	▼	
	_etag	▼
	_id	▼
	_rid	▼

Reference:

<https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.cosmos.itemrequestoptions>
<https://cosmosdb.github.io/labs/dotnet/labs/10-concurrency-control.html>

NEW QUESTION # 66

You need to select the capacity mode and scale configuration for account2 to support the planned changes and meet the business requirements. What should you select? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

Capacity mode:

- Provisioned throughput
- Provisioned throughput**
- Serverless

Scale configuration:

- Autoscale throughput on iotdb and throughput sharing across the containers
- Autoscale throughput on con-iot1 and con-iot2
- Autoscale throughput on iotdb and throughput sharing across the containers**
- Manual throughput on con-iot1 and con-iot2

Answer:

Explanation:

Answer Area

The screenshot shows the Azure portal configuration for a Cosmos DB account. Under 'Capacity mode', 'Provisioned throughput' is selected. Under 'Scale configuration', 'Autoscale throughput on iotdb and throughput sharing across the containers' is selected. A dashed green box highlights the 'Autoscale throughput on iotdb and throughput sharing across the containers' option.

Explanation:

Answer Area

The screenshot shows the Azure portal configuration for a Cosmos DB account. Under 'Capacity mode', 'Provisioned throughput' is selected. Under 'Scale configuration', 'Autoscale throughput on iotdb and throughput sharing across the containers' is selected.

NEW QUESTION # 67

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.

You have an Azure Cosmos DB Core (SQL) API account named account 1 that uses autoscale throughput.

You need to run an Azure function when the normalized request units per second for a container in account1 exceeds a specific value.

Solution: You configure an application to use the change feed processor to read the change feed and you configure the application to trigger the function.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Instead configure an Azure Monitor alert to trigger the function.

You can set up alerts from the Azure Cosmos DB pane or the Azure Monitor service in the Azure portal.

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

NEW QUESTION # 68

You have a container named container1 in an Azure Cosmos DB for NoSQL account named account1 that is set to the session default consistency level. The average size of an item in container1 is 20 KB.

You have an application named App1 that uses the Azure Cosmos DB SDK and performs a point read on the same set of items in container1 every minute.

You need to minimize the consumption of the request units (RUs) associated to the reads by App1. What should you do?

- A. In App1, change the consistency level of read requests to consistent prefix.
- B. In account1, provision a dedicated gateway and integrated cache
- C. In account1, change the default consistency level to bounded staleness.
- D. In App1, modify the connection policy settings.

Answer: A

Explanation:

The cost of a point read for a 1 KB item is 1 RU. The cost of other operations depends on factors such as item size, indexing policy, consistency level, and query complexity. To minimize the consumption of RUs, you can optimize these factors according to your application needs.

For your scenario, one possible way to minimize the consumption of RUs associated to the reads by App1 is to change the consistency level of read requests to consistent prefix. Consistent prefix is a lower consistency level than session, which is the default

consistency level for Azure Cosmos DB. Lower consistency levels consume fewer RUs than higher consistency levels². Consistent prefix guarantees that reads never see out-of-order writes and that monotonic reads are preserved¹. This may be suitable for your application if you can tolerate some eventual consistency.

NEW QUESTION # 69

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