DP-420 Q&As

Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB

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QUESTION 1

You have a database in an Azure Cosmos DB Core (SQL) API account. The database is backed up every two hours.

You need to implement a solution that supports point-in-time restore.

What should you do first?

A. Enable Continuous Backup for the account.

B. Configure the Backup and Restore settings for the account.

C. Create a new account that has a periodic backup policy.

D. Configure the Point In Time Restore settings for the account.

Correct Answer: A

When creating a new Azure Cosmos DB account, in the Backup policy tab, choose continuous mode to enable the point in time restore functionality for the new account. With the point-in-time restore, data is restored to a new account, currently you can\\'t restore to an existing account.

Reference: https://docs.microsoft.com/en-us/azure/cosmos-db/provision-account-continuous-backup

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QUESTION 2

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 result1 these questions will not appear in the review screen.

You have a database in an Azure Cosmos DB for NoSQL account that is configured for multi-region writes.

You need to use the Azure Cosmos OB SDK to implement the conflict resolution policy for a container. The solution must ensure that any conflicts are sent to the conflicts feed.

Solution: You set ConflictResolutionMode to Laswriterwins and you use the default settings for the policy.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

QUESTION 3

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 account1, change the default consistency level to bounded staleness.

B. In App1, change the consistency level of read requests to consistent prefix.

C. In account1, provision a dedicated gateway and integrated cache

D. In App1, modify the connection policy settings.

Correct Answer: B

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 complexity1. 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.

QUESTION 4

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

Correct Answer: B

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

QUESTION 5

You have an Azure Cosmos DB database.

You plan to create a new container named container1 that will store product data and product category data and will primarily support read requests.

You need to configure a partition key for container1. The solution must meet the following requirements:

Minimize the size of the partition.

Minimize maintenance effort.

Which two characteristics should you prioritize? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. unique

B. high cardinality

C. low cardinality

D. static

Correct Answer: BD

Explanation:

B: For all containers, your partition key should:

*

Have a high cardinality. In other words, the property should have a wide range of possible values.

*

Etc.

D: Be a property that has a value, which doesn\\'t change. If a property is your partition key, you can\\'t update that property\\'s value.

Reference: https://learn.microsoft.com/en-us/azure/cosmos-db/partitioning-overview