DP-420 Q&As

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

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QUESTION 1

You have an Azure Cosmos DB for NoSQL account named account1 that supports an application named App1. App1 uses the consistent prefix consistency level.

You configure account1 to use a dedicated gateway and integrated cache.

You need to ensure that App1 can use the integrated cache.

Which two actions should you perform for APP1? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Change the connection mode to direct

B. Change the account endpoint to https://account1.sqlx.cosmos.azure.com.

C. Change the consistency level of requests to strong.

D. Change the consistency level of requests to session.

E. Change the account endpoint to https://account1.documents.azure.com

Correct Answer: BD

the Azure Cosmos DB integrated cache is an in-memory cache that is built- in to the Azure Cosmos DB dedicated gateway. The dedicated gateway is a front-end compute that stores cached data and routes requests to the backend database.

You can choose from a variety of dedicated gateway sizes based on the number of cores and memory needed for your workload1. The integrated cache can reduce the RU consumption and latency of read operations by serving them from

the cache instead of the backend containers2.

For your scenario, to ensure that App1 can use the integrated cache, you should perform these two actions:

Change the account endpoint to https://account1.sqlx.cosmos.azure.com. This is the dedicated gateway endpoint that you need to use to connect to your Azure Cosmos DB account and leverage the integrated cache. The standard gateway

endpoint (https://account1.documents.azure.com) will not use the integrated cache2.

Change the consistency level of requests to session. This is the highest consistency level that is supported by the integrated cache. If you use a higher consistency level (such as strong or bounded staleness), your requests will bypass the

integrated cache and go directly to the backend containers

QUESTION 2

You have a container m an Azure Cosmos DB for NoSQL account.

Data update volumes are unpredictable.

You need to process the change teed of the container by using a web app that has multiple instances. The change feed will be processed by using the change feed processor from the Azure Cosmos DB SDK. The multiple instances must share the workload.

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

NOTE: Each correct selection is worth one point.

A. Configure the same processor name for all the instances.

B. Configure a different processor name for each instance.

C. Configure a different lease container configuration for each instance.

D. Configure the same instance name for all the instances. 13

E. Configure a different instance name for each instance.

F. Configure the same lease container configuration for all the instances.

Correct Answer: AEF

QUESTION 3

You have an Azure Cosmos DB Core (SQL) API account named account1 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 Azure Event Grid to send events to the function by using an Event Grid trigger in the function.

Does this meet the goal?

A. Yes

B. No

Correct 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

QUESTION 4

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

QUESTION 5

You have an Azure Cosmos DB for NoSQL account named account1 that has a single read-write region and one additional read region.

Account1 uses the strong default consistency level.

You have an application that uses the eventual consistency level when submitting requests to account1.

How will writes from the application be handled?

A. Writes will use the strong consistency level.

B. Azure Cosmos DB will reject writes from the application.

C. The write order is not guaranteed during replication.

D. Writes will use the eventual consistency level.

Correct Answer: A

This is because the write concern is mapped to the default consistency level configured on your Azure Cosmos DB account, which is strong in this case. Strong consistency ensures that every write operation is synchronously committed to every region associated with your Azure Cosmos DB account. The eventual consistency level that the application uses only applies to the read operations. Eventual consistency offers higher availability and better performance, but it does not guarantee the order or latency of the reads.