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## **Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q136-Q141):**

### **NEW QUESTION # 136**

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 consistency level of requests to session.
- B. Change the account endpoint to <https://account1.sqlx.cosmos.azure.com>.
- C. Change the connection mode to direct
- D. Change the consistency level of requests to strong
- E. Change the account endpoint to <https://account1.documents.azure.com>

**Answer: A,B**

Explanation:

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

### **NEW QUESTION # 137**

You have an Azure Cosmos DB database that hosts a container named container1.

You need to ensure that the items stored in contained will NOT expire unless their TTL value is set explicitly. What should you do?

- A. Set the DefaultTimeToLive property to e.
- B. Set the DefaultTimeToLive property to null.
- C. Remove the DefaultTimeToLive property.
- D. Set the DefaultTimeToLive property to -1

**Answer: D**

### **NEW QUESTION # 138**

You have an Azure Cosmos DB for NoSQL account.

The change feed is enabled on a container named invoice.

You create an Azure function that has a trigger on the change feed.

What is received by the Azure function?

- A. all the properties of the original items and the updated items
- B. only the changed properties and the system-defined properties of the updated items
- C. all the properties of the updated items

- D. only the partition key and the changed properties of the updated items

**Answer: B**

Explanation:

According to the Azure Cosmos DB documentation<sup>1,2</sup>, the change feed is a persistent record of changes to a container in the order they occur. The change feed outputs the sorted list of documents that were changed in the order in which they were modified.

The Azure function that has a trigger on the change feed receives all the properties of the updated items<sup>2</sup>. The change feed does not include the original items or only the changed properties. The change feed also includes some system-defined properties such as `_ts` (the last modified timestamp) and `_lsn` (the logical sequence number)<sup>3</sup>.

Therefore, the correct answer is:

A: all the properties of the updated items

**NEW QUESTION # 139**

You have an Apache Spark pool in Azure Synapse Analytics that runs the following Python code in a notebook.

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:

New and updated orders will be added to `contoso-erp.orders`: Yes

The code performs bulk data ingestion from `contoso-app`: No

Both `contoso-app` and `contoso-erp` have Analytics store enabled: Yes

The code uses the `spark.readStream` method to read data from a container named `orders` in a database named `contoso-app`. The data is then filtered by a condition and written to another container named `orders` in a database named `contoso-erp` using the `spark.writeStream` method. The write mode is set to "append", which means that new and updated orders will be added to the destination container<sup>1</sup>.

The code does not perform bulk data ingestion from `contoso-app`, but rather stream processing. Bulk data ingestion is a process of loading large amounts of data into a data store in batches. Stream processing is a process of continuously processing data as it arrives in real-time<sup>2</sup>.

Both `contoso-app` and `contoso-erp` have Analytics store enabled, because they are both accessed by Spark pools using the `spark.cosmos.oltp` method. This method requires that the containers have Analytics store enabled, which is a feature that allows Spark pools to query data stored in Azure Cosmos DB containers using SQL APIs<sup>3</sup>.

**NEW QUESTION # 140**

You have an Azure Cosmos DB for NoSQL database named `db1`.

You run the following code:

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:

**NEW QUESTION # 141**

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