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>> Valid DP-420 Practice Questions <<

## 100% Pass Quiz 2025 Latest DP-420: Valid Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Practice Questions

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## Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q128-Q133):

### NEW QUESTION # 128

You plan to implement con-iot1 and con-iot2.

You need to configure the default Time to Live setting for each container. The solution must meet the IoT telemetry requirements. What should you configure? To answer, select the appropriate options in the answer NOTE: Each correct selection is worth one point.

Answer Area

con-iot1:

- Off
- On (no default)
- On (1 second)
- On (3,600 seconds)

con-iot2:

- Off
- On (no default)
- On (1 second)
- On (3,600 seconds)

**Answer:**

**Explanation:**

Answer Area

con-iot1:

- Off
- On (no default)
- On (1 second)
- On (3,600 seconds)

con-iot2:

- Off
- On (no default)
- On (1 second)
- On (3,600 seconds)

**Explanation**

Box 1 = On (no default) For con-iot1, you need to configure the default TTL setting to On (no default), which means that items in this container do not expire by default, but you can override the TTL value on a per-item basis. This meets the requirement of retaining all telemetry data unless overridden.

Box 2 = On (3600 seconds) For con-iot2, you need to configure the default TTL setting to On (3600 seconds), which means that items in this container will expire 3600 seconds (one hour) after their last modified time. This meets the requirement of deleting all telemetry data older than one hour.

### NEW QUESTION # 129

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:



|                  |   |
|------------------|---|
|                  | ▼ |
| 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  |   |

Explanation:

RequestOptions property to set:

|                  |   |
|------------------|---|
|                  | ▼ |
| AccessCondition  |   |
| ConsistencyLevel |   |
| SessionToken     |   |

Document property that will be compared:

|       |   |
|-------|---|
|       | ▼ |
| _etag |   |
| _id   |   |
| _rid  |   |

Box 1: ConsistencyLevel

The ItemRequestOptions Class ConsistencyLevel property gets or sets the consistency level required for the request in the Azure Cosmos DB service.

Azure Cosmos DB offers 5 different consistency levels. Strong, Bounded Staleness, Session, Consistent Prefix and Eventual - in order of strongest to weakest consistency.

Box 2: \_etag

The ItemRequestOptions class helped us implement optimistic concurrency by specifying that we wanted the SDK to use the If-Match header to allow the server to decide whether a resource should be updated. The If-Match value is the ETag value to be checked against. If the ETag value matches the server ETag value, the resource is updated.

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 # 130

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.

```
{
  "id" : "03c1ca5a-db18-4231-908f-09a9bc7a7c3e",
  "deviceManufacturer" : "Contoso, Ltd",
  "deviceId" : "f460df85-799f-4d58-b051-67561b4993c6",
  "timestamp" : "2021-09-19T13:47:45",
  "sensor1Value" : true,
  "sensor2Value" : "75",
  "sensor3Value" : "4554",
  "sensor4Value" : "454",
  "sensor5Value" : "42128"
}
```

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

**Answer: B**

Explanation:

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.

Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/sql/synthetic-partition-keys>

### NEW QUESTION # 131

You need to select the partition key for con-iot1. The solution must meet the IoT telemetry requirements.

What should you select?

- A. the temperature
- B. the timestamp
- C. the humidity
- **D. the device ID**

**Answer: D**

Explanation:

The partition key is what will determine how data is routed in the various partitions by Cosmos DB and needs to make sense in the context of your specific scenario. The IoT Device ID is generally the "natural" partition key for IoT applications.

Scenario: The iotdb database will contain two containers named con-iot1 and con-iot2.

Ensure that Azure Cosmos DB costs for IoT-related processing are predictable.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/solution-ideas/articles/iot-using-cosmos-db>

### NEW QUESTION # 132

You have a container named container1 in an Azure Cosmos DB Core (SQL) API account. Upserts of items in container1 occur

every three seconds.

You have an Azure Functions app named function1 that is supposed to run whenever items are inserted or replaced in container1.

You discover that function1 runs, but not on every upsert.

You need to ensure that function1 processes each upsert within one second of the upsert.

Which property should you change in the Function.json file of function1?

- A. leaseCollectionsThroughput
- **B. feedPollDelay**
- C. maxItemsPerInvocation
- D. checkpointInterval

**Answer: B**

Explanation:

With an upsert operation we can either insert or update an existing record at the same time.

FeedPollDelay: The time (in milliseconds) for the delay between polling a partition for new changes on the feed, after all current changes are drained. Default is 5,000 milliseconds, or 5 seconds.

Incorrect Answers:

A: checkpointInterval: When set, it defines, in milliseconds, the interval between lease checkpoints. Default is always after each Function call.

C: maxItemsPerInvocation: When set, this property sets the maximum number of items received per Function call. If operations in the monitored collection are performed through stored procedures, transaction scope is preserved when reading items from the change feed. As a result, the number of items received could be higher than the specified value so that the items changed by the same transaction are returned as part of one atomic batch.

## NEW QUESTION # 133

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