DP-420 Valid Exam Practice - Free PDF Quiz Realistic Microsoft New Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Exam Question

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The DP-420 certification exam is designed to test candidates on a range of topics, including Azure Cosmos DB data modeling, partitioning, indexing, and querying. It also covers concepts related to Azure Functions, Azure Event Hubs, Azure Stream Analytics, and Azure Cosmos DB Change Feed. DP-420 exam is intended for professionals who have experience working with Azure Cosmos DB and are knowledgeable about cloud computing concepts and principles.

The Microsoft DP-420 exam tests the candidate's knowledge and skills in various topics such as designing and implementing data access patterns using Cosmos DB, designing and implementing partitioning strategies, designing and implementing global distribution, and designing and implementing disaster recovery and data synchronization. DP-420 Exam also tests the candidate's knowledge and skills in developing and implementing serverless and container-based applications using Cosmos DB.

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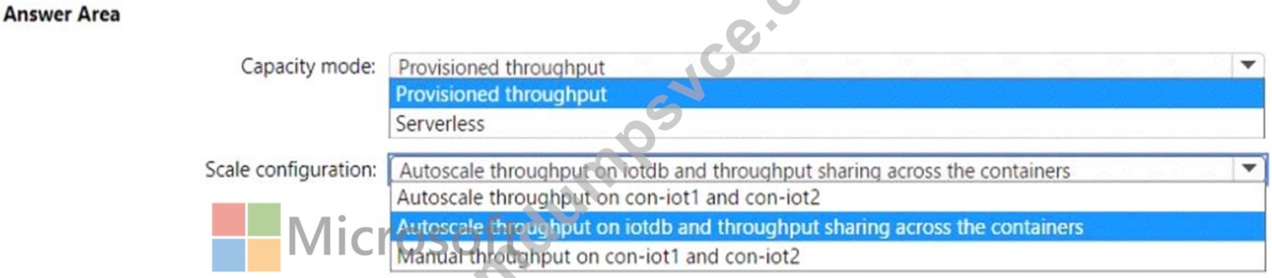
Azure Cosmos DB is a globally distributed, multi-model database service that is designed for mission-critical applications. It provides high availability, low latency, and seamless scalability, making it an ideal choice for cloud-native applications. The DP-420 Certification Exam covers topics such as designing and implementing containers, designing and implementing partitioning strategies, and optimizing the performance of Azure Cosmos DB.

Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q72-Q77):

NEW QUESTION # 72
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.



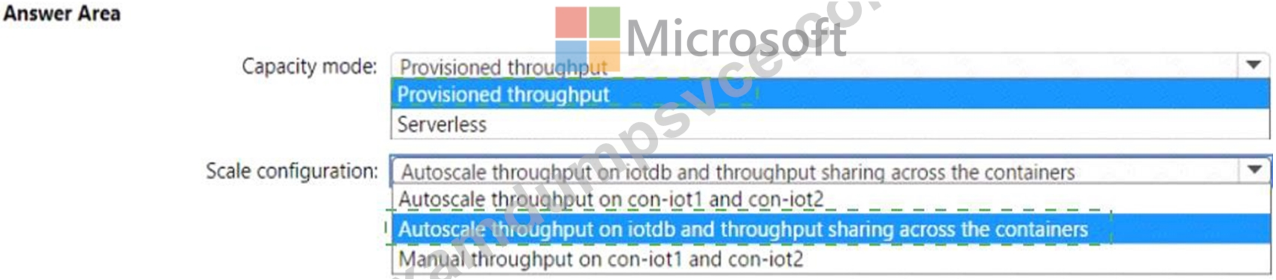
Answer Area

Capacity mode: Provisioned throughput

Scale configuration: Autoscale throughput on iotdb and throughput sharing across the containers

Answer:

Explanation:

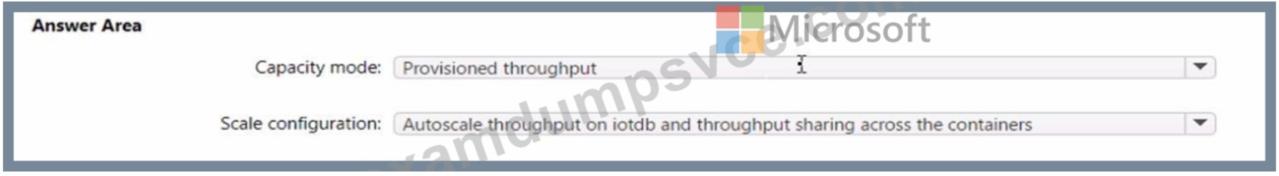


Answer Area

Capacity mode: Provisioned throughput

Scale configuration: Autoscale throughput on iotdb and throughput sharing across the containers

Explanation



Answer Area

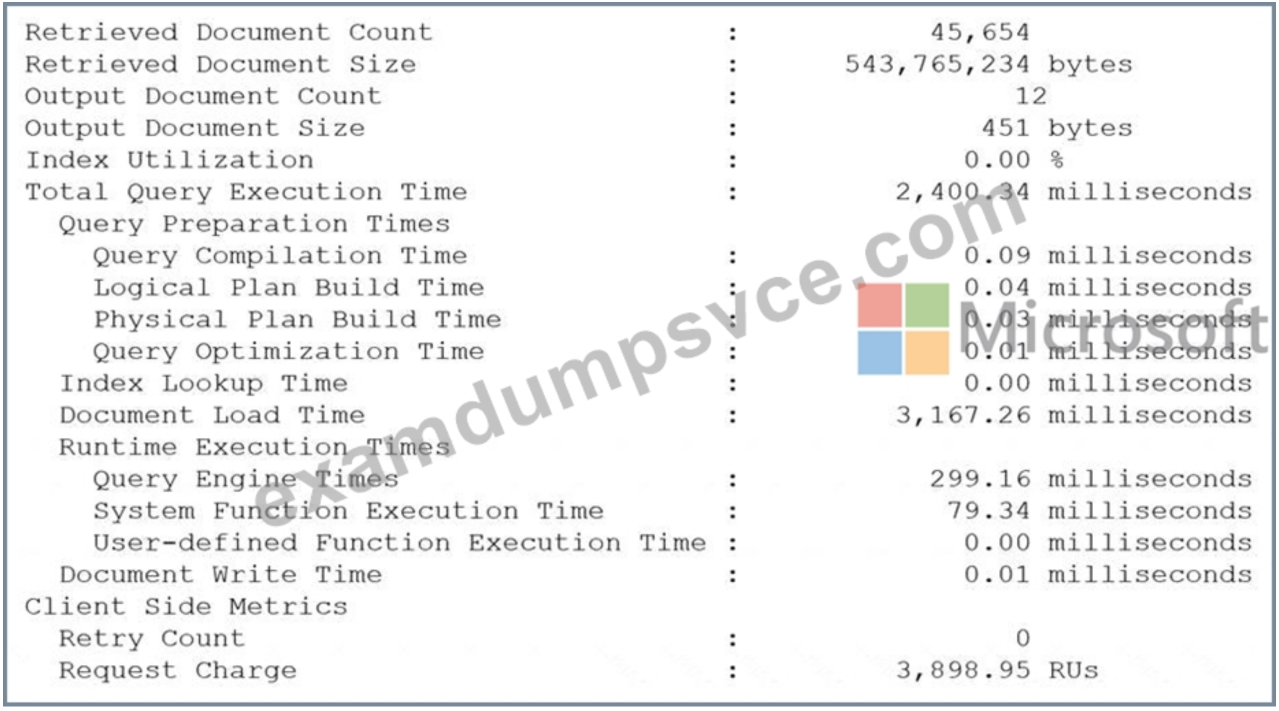
Capacity mode: Provisioned throughput

Scale configuration: Autoscale throughput on iotdb and throughput sharing across the containers

NEW QUESTION # 73
You have an Azure Cosmos DB Core (SQL) API account named account1.
In account1, you run the following query in a container that contains 100GB of data.
SELECT *
FROM c

WHERE LOWER(c.categoryid) = "hockey"

You view the following metrics while performing the query.



```
Retrieved Document Count                 :        45,654
Retrieved Document Size                  :   543,765,234 bytes
Output Document Count                    :            12
Output Document Size                     :           451 bytes
Index Utilization                        :          0.00 %
Total Query Execution Time               :      2,400.34 milliseconds
  Query Preparation Times
    Query Compilation Time               :          0.09 milliseconds
    Logical Plan Build Time              :          0.04 milliseconds
    Physical Plan Build Time             :          0.03 milliseconds
    Query Optimization Time              :          0.01 milliseconds
  Index Lookup Time                      :          0.00 milliseconds
  Document Load Time                     :      3,167.26 milliseconds
  Runtime Execution Times
    Query Engine Times                   :        299.16 milliseconds
    System Function Execution Time       :         79.34 milliseconds
    User-defined Function Execution Time :          0.00 milliseconds
  Document Write Time                    :          0.01 milliseconds
Client Side Metrics
  Retry Count                            :             0
  Request Charge                         :      3,898.95 RUs
```

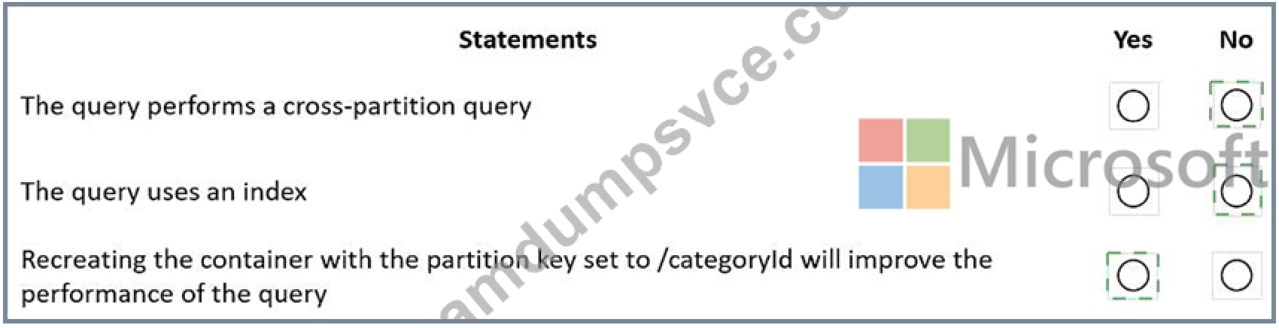
For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Statements	Yes	No
The query performs a cross-partition query	○	○
The query uses an index	○	○
Recreating the container with the partition key set to /categoryId will improve the performance of the query	○	○

Answer:

Explanation:



Statements	Yes	No
The query performs a cross-partition query	○	●
The query uses an index	○	●
Recreating the container with the partition key set to /categoryId will improve the performance of the query	●	○

Explanation:

Statements	Yes	No
The query performs a cross-partition query	○	●
The query uses an index	○	●
Recreating the container with the partition key set to /categoryId will improve the performance of the query	●	○

Box 1: No

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Each physical partition should have its own index, but since no index is used, the query is not cross-partition.
Box 2: No
Index utilization is 0% and Index Look up time is also zero.
Box 3: Yes
A partition key index will be created, and the query will perform across the partitions.
Reference: https://docs.microsoft.com/en-us/azure/cosmos-db/sql/how-to-query-container

NEW QUESTION # 74

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 a container named container1 in an Azure Cosmos DB Core (SQL) API account.
You need to make the contents of container1 available as reference data for an Azure Stream Analytics job.
Solution: You create an Azure Data Factory pipeline that uses Azure Cosmos DB Core (SQL) API as the input and Azure Blob Storage as the output.
Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:
Instead create an Azure function that uses Azure Cosmos DB Core (SQL) API change feed as a trigger and Azure event hub as the output.
The Azure Cosmos DB change feed is a mechanism to get a continuous and incremental feed of records from an Azure Cosmos container as those records are being created or modified. Change feed support works by listening to container for any changes. It then outputs the sorted list of documents that were changed in the order in which they were modified.
The following diagram represents the data flow and components involved in the solution:

NEW QUESTION # 75

You need to create a database in an Azure Cosmos DB for NoSQL account. The database will contain three containers named coll1, coll2 and coll3. The coll1 container will have unpredictable read and write volumes.
The col!2 and coll3 containers will have predictable read and write volumes. The expected maximum throughput for coll1 and coll2 is 50,000 request units per second (RU/s) each.
How should you provision the collection while minimizing costs?

- A. Create a serverless account.
- B. Create a provisioned throughput account. Set the throughput for coll1 to Manual. Set the throughput for coll2 and coll3 to Autoscale.
- C. Create a provisioned throughput account. Set the throughput for call1 to Autoscale. Set the throughput for call2 and coll3 to Manual.

Answer: C

Explanation:
Explanation
Azure Cosmos DB offers two different capacity modes: provisioned throughput and serverless1. Provisioned throughput mode allows you to configure a certain amount of throughput (expressed in Request Units per second or RU/s) that is provisioned on your databases and containers. You get billed for the amount of throughput you've provisioned, regardless of how many RUs were consumed1. Serverless mode allows you to run your database operations without having to configure any previously provisioned capacity. You get billed for the number of RUs that were consumed by your database operations and the storage consumed by your

data1.
To create a database that minimizes costs, you should consider the following factors:
* The read and write volumes of your containers
* The predictability and variability of your traffic
* The latency and throughput requirements of your application
* The geo-distribution and availability needs of your data
Based on these factors, one possible option that you could choose is B. Create a provisioned throughput account. Set the throughput for coll1 to Autoscale. Set the throughput for coll2 and coll3 to Manual.
This option has the following advantages:
* It allows you to handle unpredictable read and write volumes for coll1 by using Autoscale, which automatically adjusts the provisioned throughput based on the current load1.
* It allows you to handle predictable read and write volumes for coll2 and coll3 by using Manual, which lets you specify a fixed amount of provisioned throughput that meets your performance needs1.
* It allows you to optimize your costs by paying only for the throughput you need for each container1.
* It allows you to enable geo-distribution for your account if you need to replicate your data across multiple regions1.
This option also has some limitations, such as:
* It may not be suitable for scenarios where all containers have intermittent or bursty traffic that is hard to forecast or has a low average-to-peak ratio1.
* It may not be optimal for scenarios where all containers have low or sporadic traffic that does not justify provisioned capacity1.
* It may not support availability zones or multi-master replication for your account1.
Depending on your specific use case and requirements, you may need to choose a different option. For example, you could use a serverless account if all containers have low or sporadic traffic that does not require predictable performance or geo-distribution1.
Alternatively, you could use a provisioned throughput account with Manual for all containers if all containers have stable and consistent traffic that requires predictable performance or geo-distribution1.

NEW QUESTION # 76

You have an application named App1 that reads the data in an Azure Cosmos DB Core (SQL) API account.
App1 runs the same read queries every minute. The default consistency level for the account is set to eventual.
You discover that every query consumes request units (RUs) instead of using the cache.
You verify the IntegratedCacheiteItemHitRate metric and the IntegratedCacheQueryHitRate metric. Both metrics have values of 0.
You verify that the dedicated gateway cluster is provisioned and used in the connection string.
You need to ensure that App1 uses the Azure Cosmos DB integrated cache.
What should you configure?

- A. the default consistency level of the Azure Cosmos DB account
- B. the indexing policy of the Azure Cosmos DB container
- C. the consistency level of the requests from App1
- D. the connectivity mode of the App1 CosmosClient

Answer: D

Explanation:
Explanation
Because the integrated cache is specific to your Azure Cosmos DB account and requires significant CPU and memory, it requires a dedicated gateway node. Connect to Azure Cosmos DB using gateway mode.
Reference: https://docs.microsoft.com/en-us/azure/cosmos-db/integrated-cache-faq

NEW QUESTION # 77

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