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The Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB certification exam consists of a variety of question types, including multiple choice, drag-and-drop, and scenario-based questions. It is a timed exam that lasts for 150 minutes, and the passing score is 700 out of 1000. DP-420 Exam can be taken in-person at a Microsoft testing center, or online through a proctored exam delivery service.

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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q76-Q81):

NEW QUESTION # 76

You need to identify which connectivity mode to use when implementing App2. The solution must support the planned changes and meet the business requirements.

Which connectivity mode should you identify?

- A. Direct mode over TCP
- B. Direct mode over HTTPS
- C. Gateway mode (using HTTPS)

Answer: A

Explanation:

Scenario: Develop an app named App2 that will run from the retail stores and query the data in account2.

App2 must be limited to a single DNS endpoint when accessing account2.

By using Azure Private Link, you can connect to an Azure Cosmos account via a private endpoint. The private endpoint is a set of private IP addresses in a subnet within your virtual network.

When you're using Private Link with an Azure Cosmos account through a direct mode connection, you can use only the TCP protocol. The HTTP protocol is not currently supported.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/how-to-configure-private-endpoints>

Topic 1, Litware, inc

Case Study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview

Litware, Inc. is a United States-based grocery retailer. Litware has a main office and a primary datacenter in Seattle. The company has 50 retail stores across the United States and an emerging online presence. Each store connects directly to the internet.

Existing environment. Cloud and Data Service Environments.

Litware has an Azure subscription that contains the resources shown in the following table.

Each container in productdb is configured for manual throughput.

The con-product container stores the company's product catalog data. Each document in con-product includes a con-productVendor value. Most queries targeting the data in con-product are in the following format.

SELECT * FROM con-product p WHERE p.con-productVendor = 'name'

Most queries targeting the data in the con-productVendor container are in the following format SELECT * FROM con-productVendor pv ORDER BY pv.creditRating, pv.yearFounded Existing environment. Current Problems.

Litware identifies the following issues:

Updates to product categories in the con-productVendor container do not propagate automatically to documents in the con-product container.

Application updates in con-product frequently cause HTTP status code 429 "Too many requests". You discover that the 429 status code relates to excessive request unit (RU) consumption during the updates.

Requirements. Planned Changes

Litware plans to implement a new Azure Cosmos DB Core (SQL) API account named account2 that will contain a database named iotdb. The iotdb database will contain two containers named con-iot1 and con-iot2.

Litware plans to make the following changes:

Store the telemetry data in account2.

Configure account1 to support multiple read-write regions.

Implement referential integrity for the con-product container.

Use Azure Functions to send notifications about product updates to different recipients.

Develop an app named App1 that will run from all locations and query the data in account1.

Develop an app named App2 that will run from the retail stores and query the data in account2. App2 must be limited to a single DNS endpoint when accessing account2.

Requirements. Business Requirements

Litware identifies the following business requirements:

Whenever there are multiple solutions for a requirement, select the solution that provides the best performance, as long as there are no additional costs associated.

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

Minimize the number of firewall changes in the retail stores.

Requirements. Product Catalog Requirements

Litware identifies the following requirements for the product catalog:

Implement a custom conflict resolution policy for the product catalog data.

Minimize the frequency of errors during updates of the con-product container.

Once multi-region writes are configured, maximize the performance of App1 queries against the data in account1.

Trigger the execution of two Azure functions following every update to any document in the con-product container.

NEW QUESTION # 77

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 Synapse 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. No
- B. Yes

Answer: A

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:

□ Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/sql/change-feed-ecommerce-solution>

NEW QUESTION # 78

You have a container in an Azure Cosmos DB for NoSQL account that stores data about orders. The following is a sample of an order document.

□ Documents are up to 2 KB.

You plan to receive one million orders daily.

Customers will frequently view their past order history.

You are evaluating whether to use orderDate as the partition key.

What are two effects of using orderDate as the partition key? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. You will exceed the maximum storage per partition.
- B. You will exceed the maximum number of partition key values.
- C. **Queries will run cross-partition.**
- D. There will always be a hot partition.

Answer: C,D

NEW QUESTION # 79

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 area. **NOTE:** Each correct selection is worth one point.

Answer:

Explanation:

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 overridden1.

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 hour1.

NEW QUESTION # 80

You have an Azure subscription that contains an Azure Cosmos DB for NoSQL account named accounts. You configure account1 to send resource logs to Log Analytics.

You need to identify any containers in account1 that were deleted during the past 24 hours.

How should you complete the query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation

NEW QUESTION # 81

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