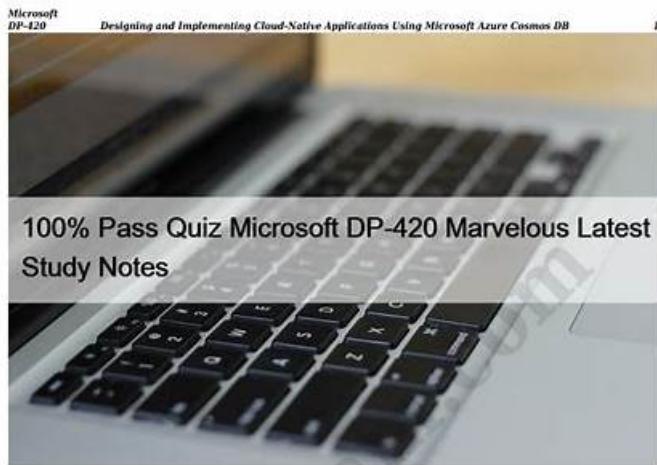


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Microsoft DP-420 exam covers a wide range of topics, including designing and implementing Azure Cosmos DB databases, developing for scalability and performance, managing data in Azure Cosmos DB, and integrating Azure Cosmos DB with other Azure services. DP-420 exam also includes questions related to security and compliance, as well as monitoring and troubleshooting Azure Cosmos DB applications. Passing DP-420 exam validates the candidate's ability to design and implement cloud-native applications using Azure Cosmos DB, making them a valuable asset to any organization leveraging Azure services.

The DP-420 Certification Exam is intended for developers who have experience in designing and developing cloud-native applications and have a strong understanding of Azure Cosmos DB's features and functionalities. DP-420 exam measures a candidate's ability to design and implement solutions that leverage Cosmos DB's capabilities, including data modeling, partitioning, indexing, and querying.

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The DP-420 Certification Exam consists of multiple-choice questions that cover a range of topics related to designing and implementing cloud-native applications using Azure Cosmos DB. Candidates will be tested on their ability to design containers and partitions, implement data modeling best practices, optimize query performance, and configure and manage Azure Cosmos DB instances.

Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q123-Q128):

NEW QUESTION # 123

You have three containers in an Azure Cosmos DB Core (SQL) API account as shown in the following table.

Name	Database	Time to Live
cn1	db1	On (no default)
cn2	db1	Off
cn3	db1	On (no default)

You have the following Azure functions:

A function named Fn1 that reads the change feed of cn1

A function named Fn2 that reads the change feed of cn2

A function named Fn3 that reads the change feed of cn3

You perform the following actions:

Delete an item named item1 from cn1.

Update an item named item2 in cn2.

For an item named item3 in cn3, update the item time to live to 3,600 seconds.

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
Fn1 will receive item1 from the change feed	<input type="radio"/>	<input type="radio"/>
Fn2 can check the _etag of item2 to see whether the item is an update or an insert	<input type="radio"/>	<input type="radio"/>
Fn3 will receive item3 from the change feed	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Statements	Yes	No
Fn1 will receive item1 from the change feed	<input type="radio"/>	<input checked="" type="radio"/>
Fn2 can check the _etag of item2 to see whether the item is an update or an insert	<input type="radio"/>	<input checked="" type="radio"/>
Fn3 will receive item3 from the change feed	<input checked="" type="radio"/>	<input type="radio"/>

Explanation:

Statements	Yes	No
Fn1 will receive item1 from the change feed	<input type="radio"/>	<input type="radio"/>
Fn2 can check the _etag of item2 to see whether the item is an update or an insert	<input type="radio"/>	<input type="radio"/>
Fn3 will receive item3 from the change feed	<input type="radio"/>	<input checked="" type="radio"/>

Box 1: No

Azure Cosmos DB's change feed is a great choice as a central data store in event sourcing architectures where all data ingestion is modeled as writes (no updates or deletes).

Note: The change feed does not capture deletes. If you delete an item from your container, it is also removed from the change feed. The most common method of handling this is adding a soft marker on the items that are being deleted. You can add a property called "deleted" and set it to "true" at the time of deletion. This document update will show up in the change feed. You can set a TTL on this item so that it can be automatically deleted later.

Box 2: No

The _etag format is internal and you should not take dependency on it, because it can change anytime.

Box 3: Yes

Change feed support in Azure Cosmos DB works by listening to an Azure Cosmos container for any changes.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/sql/change-feed-design-patterns>

<https://docs.microsoft.com/en-us/azure/cosmos-db/change-feed>

NEW QUESTION # 124

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

Answer: B

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>

NEW QUESTION # 125

You have an Azure Cosmos DB Core (SQL) API account named account1 that has the disableKeyBasedMetadataWriteAccess property enabled.

You are developing an app named App1 that will be used by a user named DevUser1 to create containers in account1. DevUser1 has a non-privileged user account in the Azure Active Directory (Azure AD) tenant.

You need to ensure that DevUser1 can use App1 to create containers in account1.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Grant permissions to create containers by using:

Account keys
Resource tokens
Role-based access control (RBAC)

Create containers by using the:

Azure AD Graph API
Azure Resource Manager API
SQL (Core) API

Answer:

Explanation:

Grant permissions to create containers by using:

Account keys
Resource tokens
Role-based access control (RBAC)

Create containers by using the:

Azure AD Graph API
Azure Resource Manager API
SQL (Core) API

Explanation:

Grant permissions to create containers by using:

Account keys
Resource tokens
Role-based access control (RBAC)

Create containers by using the:

Azure AD Graph API
Azure Resource Manager API
SQL (Core) API

Box 1: Resource tokens

Resource tokens provide access to the application resources within a database. Resource tokens:

Provide access to specific containers, partition keys, documents, attachments, stored procedures, triggers, and UDFs.

Box 2: Azure Resource Manager API

You can use Azure Resource Manager to help deploy and manage your Azure Cosmos DB accounts, databases, and containers.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/secure-access-to-data>

<https://docs.microsoft.com/en-us/rest/api/resources/>

NEW QUESTION # 126

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

```
dfStream = spark.readStream\
    .format("cosmos.oltp.changeFeed")\
    .option("spark.synapse.linkedService", "contoso-app")\
    .option("spark.cosmos.container", "orders")\
    .option("spark.cosmos.preferredRegions", "westus,eastus")\
    .option("spark.cosmos.changeFeed.startFrom", "Beginning")\
    .option("spark.cosmos.changeFeed.mode", "Incremental")\
    .load()

streamQuery = dfStream\
    .writeStream\
    .format("cosmos.oltp")\
    .option("spark.synapse.linkedService", "contoso-erp")\
    .option("spark.cosmos.container", "orders")\
    .option("checkpointLocation", "/tmp/ordersync/")\
    .outputMode("append")\
    .start()

streamQuery.awaitTermination()
```



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 Area

Statements

Yes	No
<input type="radio"/>	<input type="radio"/>

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

The code performs bulk data ingestion from contoso-app.

Both contoso-app and contoso-erp have Analytical store enabled.

Answer:

Explanation:

Answer Area

Statements

Yes	No
<input type="radio"/>	<input type="radio"/>

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

The code performs bulk data ingestion from contoso-app.

Both contoso-app and contoso-erp have Analytical store enabled.

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 container1.

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-time2.

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 APIs3.

NEW QUESTION # 127

You have a database in an Azure Cosmos DB Core (SQL) API account.

You plan to create a container that will store employee data for 5,000 small businesses. Each business will have up to 25 employees.

Each employee item will have an emailAddress value.

You need to ensure that the emailAddress value for each employee within the same company is unique.

To what should you set the partition key and the unique key? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Partition key	<input type="checkbox"/> companyId <input type="checkbox"/> companyId+emailAddress <input type="checkbox"/> emailAddress <input type="checkbox"/> employeeId
Unique key	<input type="checkbox"/> companyId <input type="checkbox"/> emailAddress <input type="checkbox"/> employeeId

Answer:

Explanation:

Partition key	<input checked="" type="checkbox"/> companyId <input type="checkbox"/> companyId+emailAddress <input type="checkbox"/> emailAddress <input type="checkbox"/> employeeId
Unique key	<input type="checkbox"/> companyId <input checked="" type="checkbox"/> emailAddress <input type="checkbox"/> employeeId

NEW QUESTION # 128

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