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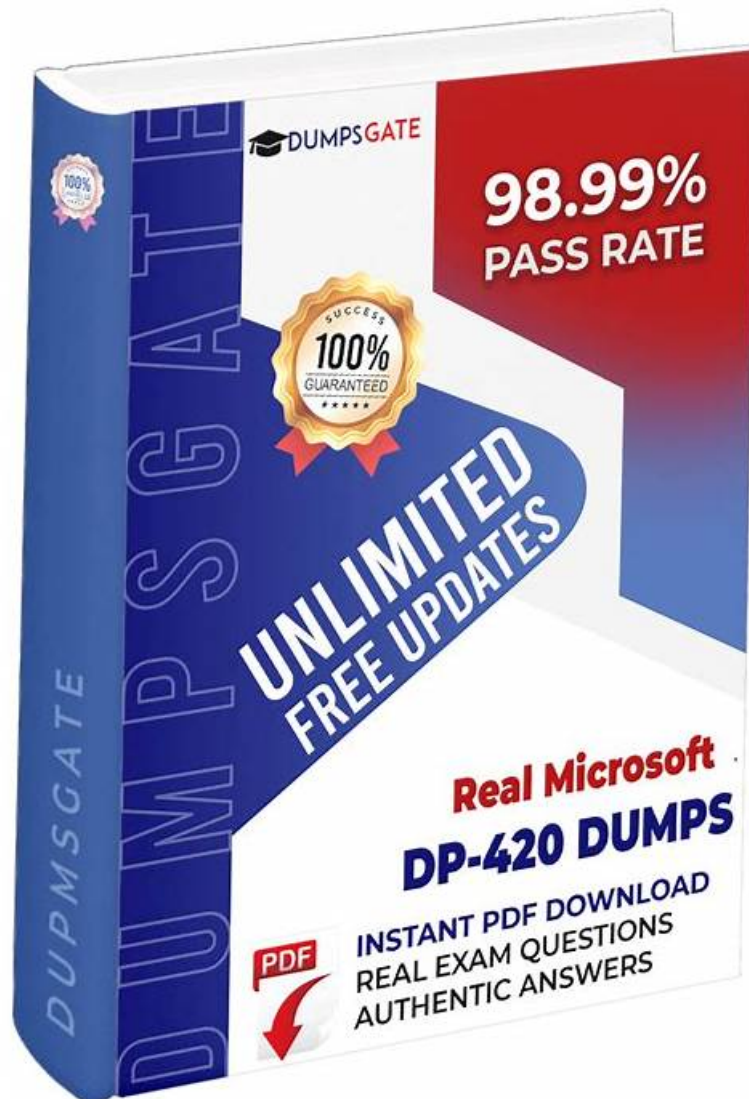
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Microsoft DP-420 exam covers a wide range of topics related to cloud-native application development using Azure Cosmos DB. These topics include designing and implementing Cosmos DB databases, developing Cosmos DB solutions using various APIs and programming languages, designing and implementing data partitioning strategies, and optimizing Cosmos DB performance and scalability. Passing DP-420 Exam demonstrates your expertise in cloud-native application development using Azure Cosmos DB, making you an invaluable asset to any organization that uses Azure for their cloud-based data management needs.

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Using Valid Dumps DP-420 Ebook - Say Goodbye to Designing and

Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB

We have applied the latest technologies to the design of our DP-420 test prep not only on the content but also on the displays. As a consequence you are able to keep pace with the changeable world and remain your advantages with our DP-420 training materials. Besides, you can consolidate important knowledge for you personally and design customized study schedule or to-do list on a daily basis. The last but not least, our after-sales service can be the most attractive project in our DP-420 Guide Torrent.

To prepare for the DP-420 exam, candidates should have a thorough understanding of Azure Cosmos DB's architecture, data modeling, and indexing capabilities. They should also be familiar with the various APIs and programming models that are available for working with Azure Cosmos DB. Microsoft offers several training resources, including online courses, practice exams, and study guides, to help candidates prepare for the DP-420 Exam.

Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q127-Q132):

NEW QUESTION # 127
You have an Azure Cosmos DB for NoSQL account that has multiple write regions.
You need to receive an alert when requests that target the database exceed the available request units per second (RU/s).
Which Azure Monitor signal should you use?

- A. Data Usage
- B. Metadata Requests
- C. Region Removed
- D. Provisioned Throughput

Answer: D

Explanation:
Azure Monitor is a service that provides comprehensive monitoring for Azure resources, including Azure Cosmos DB. You can use Azure Monitor to collect, analyze, and alert on metrics and logs from your Azure Cosmos DB account. You can create alerts for Azure Cosmos DB using Azure Monitor based on the metrics, activity log events, or Log Analytics logs on your account1.
For your scenario, if you want to receive an alert when requests that target the database exceed the available request units per second (RU/s), you should use the Document Quota metric. This metric measures the percentage of RU/s consumed by your account or container. You can create an alert rule on this metric from the Azure portal by following these steps2:
* In the Azure portal, select the Azure Cosmos DB account you want to monitor.
* Under the Monitoring section of the sidebar, select Alerts, and then select New alert rule.
* In the Create alert rule pane, fill out the Scope section by selecting your subscription name and resource type (Azure Cosmos DB accounts).
* In the Condition section, select Add condition and choose Document Quota from the list of signals.
* In the Configure signal logic pane, specify the threshold value and operator for your alert condition. For example, you can choose Greater than or equal to 90 as the threshold value and operator to receive an alert when your RU/s consumption reaches 90% or more of your provisioned throughput.
* In the Alert rule details section, specify a name and description for your alert rule.
* In the Actions section, select Add action group and choose how you want to receive notifications for your alert. For example, you can choose Email/SMS/Push/Voice as an action type and enter your email address or phone number as a receiver.
* Review your alert rule settings and select Create alert rule to save it.

NEW QUESTION # 128
You have a database in an Azure Cosmos DB Core (SQL) API account.
You need to create an Azure function that will access the database to retrieve records based on a variable named accountnumber.
The solution must protect against SQL injection attacks.
How should you define the command statement in the function?

- A. cmd = "SELECT * FROM Persons p
  WHERE p.accountnumber = 'accountnumber'"
- B. cmd = "SELECT * FROM Persons p
  WHERE p.accountnumber = @accountnumber"
- C. cmd = "SELECT * FROM Persons p
  WHERE p.accountnumber = LIKE @accountnumber"

- D. cmd = "SELECT * FROM Persons p
  WHERE p.accountnumber = '" + accountnumber + "'"

Answer: B

Explanation:
Azure Cosmos DB supports queries with parameters expressed by the familiar @ notation. Parameterized SQL provides robust handling and escaping of user input, and prevents accidental exposure of data through SQL injection.
For example, you can write a query that takes lastName and address.state as parameters, and execute it for various values of lastName and address.state based on user input.
SELECT *
FROM Families f
WHERE f.lastName = @lastName AND f.address.state = @addressState
Reference: https://docs.microsoft.com/en-us/azure/cosmos-db/sql/sql-query-parameterized-queries

NEW QUESTION # 129
You have an Azure Cosmos DB Core (SQL) API account named storage1 that uses provisioned throughput capacity mode.
The storage1 account contains the databases shown in the following table.

Name	Throughput	Max request units per second (RU/s)	Geo-redundancy	Multi-region writes	Number of regions
db1	Autoscale	5,000	Disabled	Disabled	1
db2	Autoscale	8,000	Enabled	Enabled	3

The databases contain the containers shown in the following table.

Name	Database	Throughput
cn01	db1	Container - autoscale maximum RU/s of 10,000
cn02	db1	Database
cn03	db1	Database
cn04	db1	Database
cn05	db1	Database
cn11	db2	Database
cn12	db2	Database
cn13	db2	Database
cn14	db2	Database
cn15	db2	Database
cn16	db2	Database
cn17	db2	Database
cn18	db2	Database

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
At a minimum, you will be billed for 4,000 RU/s per hour for db1	◯	◯
The maximum throughput that can be consumed by cn11 is 400 RU/s	◯	◯
To db2, you can add a new container that uses database throughput	◯	◯

Answer:

Explanation:

Statements	Yes	No
At a minimum, you will be billed for 4,000 RU/s per hour for db1	◯	**◉**
The maximum throughput that can be consumed by cn11 is 400 RU/s	◯	**◉**
To db2, you can add a new container that uses database throughput	**◉**	◯

Reference:
https://docs.microsoft.com/en-us/azure/cosmos-db/plan-manage-costs
https://azure.microsoft.com/en-us/pricing/details/cosmos-db/

NEW QUESTION # 130
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
▼
companyId
companyId+emailAddress
emailAddress
employeeId

Unique key
▼
companyId
emailAddress
employeeId

Answer:

Explanation:

Explanation:

Box 1: CompanyID

After you create a container with a unique key policy, the creation of a new or an update of an existing item resulting in a duplicate within a logical partition is prevented, as specified by the unique key constraint. The partition key combined with the unique key guarantees the uniqueness of an item within the scope of the container.

For example, consider an Azure Cosmos container with Email address as the unique key constraint and CompanyID as the partition key. When you configure the user's email address with a unique key, each item has a unique email address within a given CompanyID. Two items can't be created with duplicate email addresses and with the same partition key value.

Box 2: emailAddress

Reference: https://docs.microsoft.com/en-us/azure/cosmos-db/unique-keys

NEW QUESTION # 131

You need to provide a solution for the Azure Functions notifications following updates to con-product. The solution must meet the business requirements and the product catalog requirements.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Configure the trigger for each function to use a different leaseCollectionPrefix
- B. Configure the trigger for each function to use the same leaseCollectionNair.e
- C. Configure the trigger for each function to use a different leaseCollectionName
- D. Configure the trigger for each function to use the same leaseCollectionPrefix

Answer: A,C

Explanation:

Explanation

leaseCollectionPrefix: when set, the value is added as a prefix to the leases created in the Lease collection for this Function. Using a prefix allows two separate Azure Functions to share the same Lease collection by using different prefixes.

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

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

Reference:

https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-cosmosdb-v2-trigger

NEW QUESTION # 132

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