2026 First-grade Microsoft DP-420: Practice Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Exam

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Schedule exam

Languages: English, Japanese, Chinese (Simplified), Korean, German, French, Spanish, Portuguese (Brazil), Arabic (Saudi Arabia), Russian, Chinese (Traditional), Italian, Indonesian (Indonesia)

Retirement date: none

This exam measures your ability to accomplish the following technical tasks: design and implement data models; design and implement data distribution; integrate an Azure Cosmos DB solution; optimize an Azure Cosmos DB solution; and maintain an Azure Cosmos DB solution.

To prepare for the DP-420 exam, candidates should have experience with cloud-native application development and a strong understanding of Azure services. Microsoft offers a variety of training resources, including online courses, instructor-led training, and study guides. Candidates can also practice their skills using Azure Cosmos DB through the Azure portal or by using the Azure Cosmos DB Emulator.

To prepare for the DP-420 Exam, Microsoft offers a range of training resources, including instructor-led courses, online tutorials, and practice exams. Microsoft also provides a comprehensive study guide that covers all the topics included in the exam. Candidates can use these resources to gain a deeper understanding of cloud-native application development principles and familiarize themselves with the specific tools and technologies used in Azure Cosmos DB.

>> Practice DP-420 Exam <<

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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q108-Q113):

NEW QUESTION # 108
You have an Azure Cosmos DB for NoSQL account1 that is configured for automatic failover. The account1 account has a single read-write region in West US and a and a read region in East US.
You run the following PowerShell command.
What is the effect of running the command?

- A. The account will be configured for multi-region writes.
- B. The provisioned throughput for account1 will increase.
- C. A manual failover will occur.
- D. The account will be unavailable to writes during the change.

Answer: A

Explanation:
Explanation
You can use the Set-AzCosmosDBAccountRegion cmdlet to update the regions that an Azure Cosmos DB account uses. You can use this cmdlet to add a region or change the region failover order. The cmdlet requires a resource group name, an Azure Cosmos DB account name, and a list of regions in desired failover order1.
For your scenario, based on the PowerShell command, you are using the Set-AzCosmosDBAccountRegion cmdlet to update the regions for an Azure Cosmos DB account named account1 that is configured for automatic failover. The command specifies two regions: West US and East US. The effect of running the command is that the account will be configured for multi-region writes. Multi-region writes is a feature of Azure Cosmos DB that allows you to write data to any region in your account and have it automatically replicated to all other regions. This feature provides high availability and low latency for write operations across multiple regions. To enable multi-region writes, you need to specify at least two regions in your account and set them as write regions2. In your command, you are setting both West US and East US as write regions by using the -IsZoneRedundant parameter with a value of $true for both regions.

NEW QUESTION # 109
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.

Answer:

Explanation:
□
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 # 110
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. Provisioned Throughput
- B. Metadata Requests
- C. Region Removed
- D. Data Usage

Answer: B

Explanation:
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 # 111
You have a container named container1 in an Azure Cosmos DB for NoSQL account named account1.
You configure container1 to use Always Encrypted by using an encryption policy as shown in the C# and the Java exhibits. (Click the C# tab to view the encryption policy in C#. Click the Java tab to see the encryption policy in Java.)
□
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:

Explanation:
□
Explanation
According to the Azure Cosmos DB documentation , Always Encrypted is a feature designed to protect sensitive data, such as credit card numbers or national identification numbers, stored in Azure Cosmos DB.
Always Encrypted allows clients to encrypt sensitive data inside client applications and never reveal the encryption keys to the database.
To use Always Encrypted, you need to define an encryption policy for each container that specifies which properties should be encrypted and which data encryption keys (DEK) should be used. The DEKs are stored in Azure Cosmos DB and are wrapped by customer-managed keys (CMK) that are stored in Azure Key Vault.

Based on the encryption policy shown in the exhibits, the creditcard property is encrypted with a DEK named dek1, and the SSN property is encrypted with a DEK named dek2. Both DEKs are wrapped by a CMK named cmk1.

To answer your statements:

* You can perform a query that filters on the creditcard property = No. This is because the creditcard property is encrypted and cannot be used for filtering or sorting operations1.

* You can perform a query that filters on the SSN property = No. This is also because the SSN property is encrypted and cannot be used for filtering or sorting operations1.

* An application can be allowed to read the creditcard property while being restricted from reading the SSN property = Yes. This is possible by using different CMKs to wrap different DEKs and applying access policies on the CMKs in Azure Key Vault. For example, if you use cmk2 to wrap dek2 instead of cmk1, you can grant an application access to cmk1 but not cmk2, which means it can read the creditcard property but not the SSN property2.

NEW QUESTION # 112

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:

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 # 113

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