

Hot Latest Braindumps DP-420 Book | Efficient Microsoft DP-420: Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB 100% Pass



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The DP-420 Exam is designed for professionals who have experience working with Azure Cosmos DB, Microsoft's globally distributed, multi-model database service. DP-420 exam tests the candidate's knowledge of cloud-native application development principles, including the use of Azure Cosmos DB's APIs, query languages, and data modeling techniques. Candidates will also be tested on their ability to design and implement secure, scalable, and highly available cloud-native applications.

Microsoft DP-420 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Design and Implement Data Distribution: Microsoft developers delve into designing replication strategies and implementing multi-region writes for Azure Cosmos DB. These skills ensure high availability, fault tolerance, and enhanced global performance for distributed applications, making them vital for enterprise-grade solutions.

Topic 2	<ul style="list-style-type: none"> Optimize an Azure Cosmos DB Solution: Developers gain expertise in optimizing query performance using Azure Cosmos DB for NoSQL APIs, implementing change feeds, and crafting effective indexing strategies. This topic ensures solutions are performant, scalable, and adaptive to evolving data requirements, enhancing application responsiveness.
Topic 3	<ul style="list-style-type: none"> Integrate an Azure Cosmos DB Solution: This topic focuses on enabling analytical workloads and integrating Azure Cosmos DB across services. Developers learn to leverage cross-service integrations for cohesive solutions, driving advanced analytics and operational efficiency in cloud-native applications.
Topic 4	<ul style="list-style-type: none"> Maintain an Azure Cosmos DB Solution: This section covers monitoring, troubleshooting, and securing Azure Cosmos DB solutions. Developers master backup and restore procedures, implement data movement, and streamline processes using DevOps. These skills ensure operational reliability and safeguard data integrity in production environments.
Topic 5	<ul style="list-style-type: none"> Design and Implement Data Models: This topic equips Microsoft developers to design and implement non-relational data models for Azure Cosmos DB for NoSQL, emphasizing partitioning strategies, database sizing, and scaling. Developers master connectivity using the Azure Cosmos DB SDK and SQL language for NoSQL, ensuring seamless data access. Additionally, server-side programming with JavaScript empowers robust solutions tailored to specific application needs.

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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q124-Q129):

NEW QUESTION # 124

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



Microsoft

companyID
companyID+emailAddress
emailAddress
employeeID

Unique key

companyID
emailAddress
employeeID

Answer:

Explanation:

Partition key

companyID
companyID+emailAddress
emailAddress
employeeID

Unique key

companyID
emailAddress
employeeID

Explanation

Partition key	Microsoft

Unique key	Microsoft

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 # 125

You configure Azure Cognitive Search to index a container in an Azure Cosmos DB Core (SQL) API account as shown in the following exhibit.

		+ Add field	+ Add subfield	Delete							
Field Name	Type	Retrievable	Filterable	Sortable	Facetable	Searchable	Analyzer	Suggerster			
id	Edm.String	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
name	Edm.String	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Standard - Lucene				
headquarters	Edm.ComplexType										
country	Edm.String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
iso	Edm.String	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
employees	Edm.Int32	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
rid	Edm.String										

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

The [answer choice] field is limited to exact match comparisons

country
id
name

The [answer choice] field is hidden from the search results

country
id
name

Answer:

Explanation:

The [answer choice] field is limited to exact match comparisons

country
id
name

The [answer choice] field is hidden from the search results

country
id
name

NEW QUESTION # 126

You have an Azure Cosmos DB Core (SQL) API account named account1.

You have the Azure virtual networks and subnets shown in the following table.

Subnet	Network	IP address range	Virtual machine
subnet1	vnet1	10.0.0.0/24	VM1
subnet2	vnet1	10.0.1.0/24	VM2
subnet3	vnet2	10.1.0.0/24	VM3

The vnet1 and vnet2 networks are connected by using a virtual network peer.

The Firewall and virtual network settings for account1 are configured as shown in the exhibit.

Allow access from

All networks Selected networks



Configure network security for your Azure Cosmos DB account. [Learn more](#).

Virtual networks

Secure your Azure Cosmos DB account with virtual networks. [+ Add existing virtual network](#) [+Add new virtual network](#)

Virtual Network	Subnet	Address range	Endpoint Status
vnet1	1 vnet1.subnet1	10.0.0.0/16 10.0.1.0/24	✓ Enabled

Firewall

Add IP ranges to allow access from the internet or your on-premises networks. [+Add my current IP](#)



IP(Single IPv4 or CIDR range)

Exceptions

Accept connections from within public Azure datacenters [①](#)

Allow access from Azure Portal [①](#)

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

VM1 can access account 1

VM2 can access account 1

VM3 can access account 1

Answer:

Explanation:

Statements	Yes	No
VM1 can access account 1	<input checked="" type="radio"/>	<input type="radio"/>
VM2 can access account 1	<input type="radio"/>	<input checked="" type="radio"/>
VM3 can access account 1	<input type="radio"/>	<input checked="" type="radio"/>

NEW QUESTION # 127

You have an Azure Cosmos DB Core (SQL) account that has a single write region in West Europe.

```

az cosmosdb update -n $accountName -g $resourceGroupName \
  --locations regionName='West Europe' failoverPriority=0 isZoneRedundant=False \
  --locations regionName='North Europe' failoverPriority=1 isZoneRedundant=False

az cosmosdb failover-priority-change -n $accountName -g $resourceGroupName \
  --failover-policies 'North Europe=1' 'West Europe=1'

```

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
After running the script, there will be an instance of Azure Cosmos DB in North Europe that is writable	<input type="radio"/>	<input type="radio"/>
After running the script, the Azure Cosmos DB instance in West Europe will be writable	<input type="radio"/>	<input type="radio"/>
The cost of the Azure Cosmos DB account is unaffected by running the script	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Statements	Yes	No
After running the script, there will be an instance of Azure Cosmos DB in North Europe that is writable	<input checked="" type="checkbox"/>	<input type="radio"/>
After running the script, the Azure Cosmos DB instance in West Europe will be writable	<input type="radio"/>	<input checked="" type="checkbox"/>
The cost of the Azure Cosmos DB account is unaffected by running the script	<input checked="" type="checkbox"/>	<input type="radio"/>

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/sql/how-to-multi-master>
<https://docs.microsoft.com/en-us/azure/cosmos-db/optimize-cost-regions>

NEW QUESTION # 128

You have a multi-region Azure Cosmos DB account named account1 that has a default consistency level of strong.

You have an app named App1 that is configured to request a consistency level of session.

How will the read and write operations of App1 be handled? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Write operations will:

Be applied only to the replica to which App1 is connected

Write and replicate data to every region asynchronously

Write and replicate data to every region synchronously

Read operations will be performed by the replica:

To which App1 is connected

That has the lowest estimated latency to the client

That responds first

Answer:

Explanation:

Answer Area

Write operations will:

Be applied only to the replica to which App1 is connected
Write and replicate data to every region asynchronously
Write and replicate data to every region synchronously

Read operations will be performed by the replica:

To which App1 is connected
That has the lowest estimated latency to the client
That responds first

Explanation:

Box 1 =Write and replicate data to every region synchronously

This is because the write concern is mapped to the default consistency level configured on your Azure Cosmos DB account2, which is strong in this case. Strong consistency ensures that every write operation is synchronously committed to every region associated with your Azure Cosmos DB account1. The request level consistency level of session only applies to the read operations of App11.

Box 2:That has the lowest estimated latency to the client

This is because the read operations of App1 will use the session consistency level that is specified in the request options. Session consistency is a client-centric consistency model that guarantees monotonic reads, monotonic writes, and read-your-own-writes within a session. A session is scoped to a client connection or a stored procedure execution. Session consistency allows clients to read from any region that has the lowest latency to the client.

NEW QUESTION # 129

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