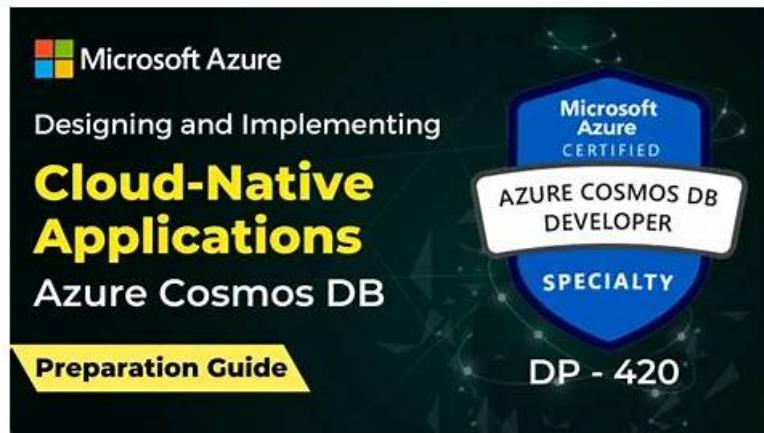


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>> DP-420 Frenquent Update <<

## Quiz 2025 DP-420: Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Useful Frenquent Update

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## Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q29-Q34):

### NEW QUESTION # 29

You have a container named container1 in an Azure Cosmos DB for NoSQL account.

You need to provide a user named User1 with the ability to insert items into container1 by using role-based access. The solution must use the principle of least privilege.

Which roles should you assign to User1?

- A. Cosmos DB Operator only
- B. DocumentDB Account Contribute only
- C. DocumentDB Account Contributor and Cosmos DB Built-in Data Contributor
- D. **Cosmos DB Built-in Data Contributor only**

**Answer: D**

Explanation:

The Cosmos DB Built-in Data Contributor role provides the necessary permissions to insert items into a container in an Azure Cosmos DB for NoSQL account. This role grants the minimum required privileges for the described task, adhering to the principle of least privilege.

### NEW QUESTION # 30

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

```
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=0' '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="radio"/>	<input type="radio"/>
----------------------------------	-----------------------

After running the script, the Azure Cosmos DB instance in West Europe will be writable

<input type="radio"/>	<input checked="" type="radio"/>
-----------------------	----------------------------------

The cost of the Azure Cosmos DB account is unaffected by running the script

<input checked="" type="radio"/>	<input type="radio"/>
----------------------------------	-----------------------

Explanation:

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 checked="" type="radio"/>
The cost of the Azure Cosmos DB account is unaffected by running the script	<input type="radio"/>	<input checked="" type="radio"/>

Box 1: Yes

The Automatic failover option allows Azure Cosmos DB to failover to the region with the highest failover priority with no user action should a region become unavailable.

Box 2: No

West Europe is used for failover. Only North Europe is writable.

To Configure multi-region set UseMultipleWriteLocations to true.

Box 3: Yes

Provisioned throughput with single write region costs \$0.008/hour per 100 RU/s and provisioned throughput with multiple writable regions costs \$0.016/hour per 100 RU/s.

Reference:

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

### NEW QUESTION # 31

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 HTTPS
- C. Direct mode over TCP

**Answer: C**

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 # 32

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	<input type="radio"/>	<input type="radio"/>
The maximum throughput that can be consumed by cn11 is 400 RU/s	<input type="radio"/>	<input type="radio"/>
To db2, you can add a new container that uses database throughput	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Statements	Yes	No
At a minimum, you will be billed for 4,000 RU/s per hour for db1	<input type="radio"/>	<input checked="" type="radio"/>
The maximum throughput that can be consumed by cn11 is 400 RU/s	<input type="radio"/>	<input checked="" type="radio"/>
To db2, you can add a new container that uses database throughput	<input checked="" type="radio"/>	<input type="radio"/>

Explanation:

Statements	Yes	No
At a minimum, you will be billed for 4,000 RU/s per hour for db1	<input type="radio"/>	<input checked="" type="radio"/>
The maximum throughput that can be consumed by cn11 is 400 RU/s	<input type="radio"/>	<input checked="" type="radio"/>
To db2, you can add a new container that uses database throughput	<input type="radio"/>	<input checked="" type="radio"/>

Box 1: No

Four containers with 1000 RU/s each.

Box 2: No

Max 8000 RU/s for db2. 8 containers, so 1000 RU/s for each container.

Box 3: Yes

Max 8000 RU/s for db2. 8 containers, so 1000 RU/s for each container. Can very well add an additional container.

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 # 33

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.

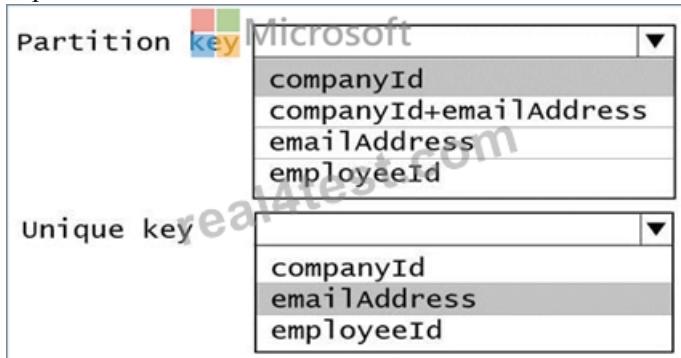
Partition key	<input type="checkbox"/> companyId <input type="checkbox"/> companyId+emailAddress <input type="checkbox"/> emailAddress <input type="checkbox"/> employeeId
Unique key	<input type="checkbox"/> companyId <input type="checkbox"/> emailAddress <input type="checkbox"/> employeeId

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

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 # 34

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