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> Vendor: Microsoft

> Exam Code: DP-420

> Exam Name: Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB

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QUESTION 122

You have an Azure Cosmos DB for NoSQL account configured for global distribution across four regions. At connection time, the SQL SDK needs to identify the optimal endpoint for reading and writing. Which two factors can influence the SDK? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. the consistency level in RequestOptions
- B. regional latency
- C. the default consistency level
- D. the PreferredLocations configuration
- E. a region being available

Answer: DE

Explanation:

In order to take advantage of global distribution, client applications can specify the ordered preference list of regions to be used to perform document operations. Based on the Azure Cosmos DB account configuration, current regional availability and the preference list specified, the most optimal endpoint will be chosen by the SQL SDK to perform write and read operations.
<https://learn.microsoft.com/en-us/azure/cosmos-db/nosql/tutorial-global-distribution?tabs=dotnetv2%2Capi-async#preferred-locations>

QUESTION 123

You have an Azure Cosmos DB for NoSQL account named account1. You need to create a container named Container1 in account1 by using the Azure Cosmos DB .NET SDK. The solution must ensure that the items in Container1 never expire. What should you set?

- A. TimeToLivePropertyPath to null
- B. TimeToLivePropertyPath to 0
- C. DefaultTimeToLive to null
- D. DefaultTimeToLive to -1

Answer: C

QUESTION 124

You are designing an Azure Cosmos DB for NoSQL solution to store data from IoT devices. Writes from the devices will occur every second. Data will be retained indefinitely. The following is a sample of the data.

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Microsoft DP-420 exam is an essential certification for professionals who want to enhance their skills in designing and implementing cloud-native applications using Azure Cosmos DB. DP-420 exam covers various topics that are essential for individuals who want to validate their skills in building highly scalable and available applications that can handle large volumes of data traffic. Passing DP-420 exam will help individuals to demonstrate their proficiency in cloud computing and database management and pave the way for a successful career in this field.

Microsoft DP-420 Exam is part of the Azure certification path, and passing DP-420 exam will help professionals to demonstrate their proficiency in designing and implementing cloud-native applications using Azure Cosmos DB. DP-420 exam is also essential for individuals who want to validate their skills in building highly scalable and available applications that can handle large volumes of data traffic.

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As the saying goes, practice makes perfect. We are now engaged in the pursuit of Craftsman spirit in all walks of life. Professional and mature talents are needed in each field, similarly, only high-quality and high-precision Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB qualification question can enable learners to be confident to take the qualification examination so that they can get the certificate successfully, and our DP-420 Learning Materials are such high-quality learning materials, it can meet the user to learn the most popular test site knowledge. Because our experts have extracted the frequent annual test centers are summarized to provide users with reference.

Microsoft DP-420 certification exam is designed for professionals who wish to validate their skills in designing and implementing cloud-native applications using Microsoft Azure Cosmos DB. Cosmos DB is a globally distributed, multi-model database service that allows developers to scale and replicate their data across multiple regions and platforms. By passing the DP-420 Exam, candidates can demonstrate their expertise in designing and implementing highly available, scalable, and secure cloud-native applications using Cosmos DB.

Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q31-Q36):

NEW QUESTION # 31

You have an Azure subscription that contains an Azure Cosmos DB for NoSQL account named account1 and a Log Analytics workspace named Workspace1. Workspace 1 stores the logs of account1.

You need to identify which operations used the most request units per second (RU/s) during the last 24 hours.

How should you complete the query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point

Answer Area

AzureDiagnostics
AzureActivity
AzureDiagnostics
AzureMetrics

```
| where ResourceProvider=="MICROSOFT.DOCUMENTDB" and Category==
```

DataPlaneRequests
ControlPlaneRequests
DataPlaneRequests
PartitionKeyStatistics

```
| where TimeGenerated >= ago(1d)
```

```
| summarize max(responseLength_s), max(requestLength_s), max(requestCharge_s), count = count() by OperationName, requestResourceType_s, userAgent_s, collectionRid_s
```

Answer:

Explanation:

Answer Area

AzureDiagnostics
AzureActivity
AzureDiagnostics
AzureMetrics

```
| where ResourceProvider=="MICROSOFT.DOCUMENTDB" and Category==
```

DataPlaneRequests
ControlPlaneRequests
DataPlaneRequests
PartitionKeyStatistics

```
| where TimeGenerated >= ago(1d)
```

```
| summarize max(responseLength_s), max(requestLength_s), max(requestCharge_s), count = count() by OperationName, requestResourceType_s, userAgent_s, collectionRid_s
```

Explanation:

Answer Area

AzureDiagnostics

```
| where ResourceProvider=="MICROSOFT.DOCUMENTDB" and Category==
```

DataPlaneRequests

```
| where TimeGenerated >= ago(1d)
```

```
| summarize max(responseLength_s), max(requestLength_s), max(requestCharge_s), count = count() by OperationName, requestResourceType_s, userAgent_s, collectionRid_s
```

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"/>

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 configure multi-region writes for account1.

You need to ensure that App1 supports the new configuration for account1. The solution must meet the business requirements and the product catalog requirements.

What should you do?

- A. Create a private endpoint connection.
- **B. Increase the number of request units per second (RU/s) allocated to the con-product and con-productVendor containers.**
- C. Set the default consistency level of account1 to bounded staleness.
- D. Modify the connection policy of App1.

Answer: B

Explanation:

App1 queries the con-product and con-productVendor containers.

Note: Request unit is a performance currency abstracting the system resources such as CPU, IOPS, and memory that are required to perform the database operations supported by Azure Cosmos DB.

Scenario:

Develop an app named App1 that will run from all locations and query the data in account1.

Once multi-region writes are configured, maximize the performance of App1 queries against the data in account1.

Whenever there are multiple solutions for a requirement, select the solution that provides the best performance, as long as there are no additional costs associated.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels>

NEW QUESTION # 34

You have an Azure subscription. The subscription contains an Azure Cosmos DB for NoSQL account named account1 that hosts a container named Customers. Multi-region writes are allowed.

You execute the following C# code.

```
var sales = await createClient.GetDatabase("sales");
var customers = await sales.CreateContainerIfNotExistsAsync
(
    new ContainerProperties("customers", "/id")
    {
        ConflictResolutionPolicy = new ConflictResolutionPolicy()
        {
            Mode = ConflictResolutionMode.Custom,
            ResolutionProcedure = "https://www.azure.com/customers/sprocs/conflict"
        }
    }
);
```

```
await customers.Scripts.CreateStoredProcedureAsync
(new StoredProcedureProperties("conflict", File.ReadAllText(@"conflict.js"))
);
```

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

conflict is the ID of the stored procedure used for conflict resolution.

When a write conflict occurs, the id property of items in customers will hold the session token of the last writer.

Changing the conflict resolution policy for customers to LastWriterWins requires dropping the container.

Yes No
Microsoft

Answer:

Explanation:

Answer Area



Statements

conflict is the ID of the stored procedure used for conflict resolution.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
When a write conflict occurs, the id property of items in customers will hold the session token of the last writer.	<input type="checkbox"/>	<input type="checkbox"/>
Changing the conflict resolution policy for customers to LastWriterWins requires dropping the container.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Explanation:

Answer Area



Statements

conflict is the ID of the stored procedure used for conflict resolution.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
When a write conflict occurs, the id property of items in customers will hold the session token of the last writer.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Changing the conflict resolution policy for customers to LastWriterWins requires dropping the container.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

NEW QUESTION # 35

You have an Azure Cosmos DB container named container1.

You need to insert an item into contained. The solution must ensure that the item is deleted automatically after two hours.

How should you complete the item definition? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



Microsoft

```
{
  "id": "1",
  "customerOrderNumber": "XA2342093",
  "orderDate": "2022-04-22T09:34:42",
  "customerNumber": 234223,
  "orderItems":
  [
    (
      "id": 1,
      "quantity": 12,
      "productCode": "B2348LK"
    )
  ]
  "_attachments": "attachments/",
  "ttl": 7200,
  "defaultTimeToLive": 7200,
  "_ttl": 7200,
  "_ts": 1551322496
}
```

Answer:

Explanation:

Answer Area



```
{
  "id": "1",
  "customerOrderNumber": "XA2342893",
  "orderDate": "2022-04-22T09:34:42",
  "customerNumber": 234223,
  "orderItems":
  [
    (
      "id": 1,
      "quantity": 12,
      "productCode": "B234BLK"
    )
  ]
  "_attachments": "attachments/",
  "ttl": 7200,
  "defaultTimeToLive": 7200,
  "_ttl": 7200,
  "_ts": 1551322496
}
```

Explanation:

Answer Area

```
{
  "id": "1",
  "customerOrderNumber": "XA2342093",
  "orderDate": "2022-04-22T09:34:42",
  "customerNumber": 234223,
  "orderItems":
  [
    (
      "id": "1",
      "quantity": 12,
      "productCode": "B2348LK"
    )
  ]
}
"attachments": "attachments/",
"ttl": 7200,
"_ts": 1551322496
}
```



Microsoft

NEW QUESTION # 36

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