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Microsoft DP-420 Certification Exam is a comprehensive test designed to evaluate the knowledge and skills of professionals in designing and implementing cloud-native applications using Microsoft Azure Cosmos DB. Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB certification is ideal for candidates who are interested in demonstrating their ability to leverage the power of cloud computing to build scalable, reliable, and high-performance applications.

The DP-420 exam covers a range of topics related to cloud-native application development using Azure Cosmos DB. This includes topics such as designing and implementing containers, designing and implementing data storage solutions, and designing and implementing security solutions. Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB certification exam is designed to test the individual's knowledge of these topics and their ability to apply this knowledge in real-world scenarios.

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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 Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q73-Q78):

NEW QUESTION # 73

You have a database in an Azure Cosmos DB SQL API Core (SQL) account that is used for development.

The database is modified once per day in a batch process.

You need to ensure that you can restore the database if the last batch process fails. The solution must minimize costs.

How should you configure the backup settings? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Backup interval

1 hour
24 hours
1 weeks

Backup retention

2 days
1 week
30 days

Answer:

Explanation:

Backup interval

1 hour
24 hours
1 weeks

Backup retention

2 days
1 week
30 days

Explanation

Backup interval

▼
1 hour
24 hours
1 weeks

Backup retention

▼
2 days
1 week
30 days

NEW QUESTION # 74

You have a container in an Azure Cosmos DB Core (SQL) API account. The container stores telemetry data from IoT devices. The container uses telemetryId as the partition key and has a throughput of 1,000 request units per second (RU/s). Approximately 5,000 IoT devices submit data every five minutes by using the same telemetryId value.

You have an application that performs analytics on the data and frequently reads telemetry data for a single IoT device to perform trend analysis.

The following is a sample of a document in the container.

```
{
  "id" : "9ccf1906-2a30-4dc0-9644-2185f5dcbbd7",
  "deviceId" : "bba6fe24-6d97-4935-8d58-36baa4b8a0e1",
  "telemetryId" : "9d7816e6-f401-42ba-ad05-0e03de35c0b8",
  "date" : "2019-05-03",
  "time" : "13:05",
  "temp" : "21"
}
```

You need to reduce the amount of request units (RUs) consumed by the analytics application.

What should you do?

- A. Move the data to a new container that has a partition key of deviceId.
- B. Increase the offerThroughput value for the container.
- C. Move the data to a new container that uses a partition key of date.
- D. Decrease the offerThroughput value for the container.

Answer: A

Explanation:

The partition key is what will determine how data is routed in the various partitions by Cosmos DB and needs to make sense in the context of your specific scenario. The IoT Device ID is generally the "natural" partition key for IoT applications.

NEW QUESTION # 75

You have an Azure Cosmos DB Core (SQL) API account that is configured for multi-region writes. The account contains a database that has two containers named container1 and container2.

The following is a sample of a document in container1:

```
{
  "customerId": 1234,
  "firstName": "John",
  "lastName": "Smith",
  "policyYear": 2021
}
```

The following is a sample of a document in container2:

```
{
  "gpsId": 1234,
  "latitude": 38.8951,
```

```
"longitude": -77.0364
}
```

You need to configure conflict resolution to meet the following requirements:

For container1 you must resolve conflicts by using the highest value for policyYear.

For container2 you must resolve conflicts by accepting the distance closest to latitude: 40.730610 and longitude: -73.935242.

Administrative effort must be minimized to implement the solution.

What should you configure for each container? To answer, drag the appropriate configurations to the correct containers. Each configuration may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Configurations	Answer Area
Last Write Wins (default) mode	Container1:
Merge Procedures (custom) mode	Container2:
An application that reads from the conflicts feed	

Answer:

Explanation:

Configurations	Answer Area
Last Write Wins (default) mode	Container1: Last Write Wins (default) mode
Merge Procedures (custom) mode	Container2: Merge Procedures (custom) mode
An application that reads from the conflicts feed	

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/conflict-resolution-policies>

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

NEW QUESTION # 76

You have a database named db1 in an Azure Cosmos DB for NoSQL account named account1. The db1 database has a manual throughput of 4,000 request units per second (RU/s).

You need to move db1 from manual throughput to autoscale throughput by using the Azure CLI. The solution must provide a minimum of 4,000 RU/s and a maximum of 40,000 RU/s.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
az cosmosdb sql database throughput  
-a "account1" \  
-g "cosmosdbrg" \  
-n "db1" \  
--throughput
```

migrate
show
update

400
4000
40000

Answer:

Explanation:

Answer Area

```
az cosmosdb sql database throughput  
-a "account1" \  
-g "cosmosdbrg" \  
-n "db1" \  
--throughput
```

migrate
show
update

400
4000
40000

Explanation:

Migrate

40000

According to the Azure CLI reference¹, you need to use the `az cosmosdb sql database throughput migrate` command to migrate the throughput of the SQL database between autoscale and manually provisioned. You also need to use the `--throughput-type` parameter to specify the type of throughput to migrate to, and the `--max-throughput` parameter to specify the maximum throughput resource can scale to (RU/s).

To complete the CLI statements, you should replace the missing values with:

* `--throughput-type autoscale`

* `--max-throughput 40000`

The final command should look like this:

```
az cosmosdb sql database throughput migrate \  
--account-name account1 \  
--name db1 \  
--resource-group rg1 \  
--throughput-type autoscale \  
--max-throughput 40000
```

NEW QUESTION # 77

You have a container named `container1` in an Azure Cosmos DB Core (SQL) API account.

The following is a sample of a document in `container1`.

```
{  
  "studentId": "631282",  
  "firstName": "James",  
  "lastName": "Smith",  
  "enrollmentYear": 1990,  
  "isActivelyEnrolled": true,  
  "address": {  
    "street": "",  
    "city": ""  
  }  
}
```

```
"stateProvince": "",
"postal": "",
}
}
```

The container1 container has the following indexing policy.

```
{
  "indexingMode": "consistent",
  "includePaths": [
    {
      "path": "/"
    },
    {
      "path": "/address/city/"
    }
  ],
  "excludePaths": [
    {
      "path": "/address/"
    },
    {
      "path": "/firstName/"
    }
  ]
}
```

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
The /isActivelyEnrolled property is included in the index	<input type="radio"/>	<input type="radio"/>
The /fisrtname property is included in the index	<input type="radio"/>	<input type="radio"/>
The /address/city property is included in the index	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Statements	Yes	No
The /isActivelyEnrolled property is included in the index	<input checked="" type="radio"/>	<input type="radio"/>
The /fisrtname property is included in the index	<input type="radio"/>	<input checked="" type="radio"/>
The /address/city property is included in the index	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION # 78

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