



Microsoft

Exam Questions DP-420

Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB

NEW QUESTION 1

- (Exam Topic 1)

You are troubleshooting the current issues caused by the application updates.

Which action can address the application updates issue without affecting the functionality of the application?

- A. Enable time to live for the con-product container.
- B. Set the default consistency level of account1 to strong.
- C. Set the default consistency level of account1 to bounded staleness.
- D. Add a custom indexing policy to the con-product container.

Answer: C

Explanation:

Bounded staleness is frequently chosen by globally distributed applications that expect low write latencies but require total global order guarantee. Bounded staleness is great for applications featuring group collaboration and sharing, stock ticker, publish-subscribe/queueing etc.

Scenario: Application updates in con-product frequently cause HTTP status code 429 "Too many requests". You discover that the 429 status code relates to excessive request unit (RU) consumption during the updates.

Reference:

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

NEW QUESTION 2

- (Exam Topic 1)

You need to select the partition key for con-iot1. The solution must meet the IoT telemetry requirements. What should you select?

- A. the timestamp
- B. the humidity
- C. the temperature
- D. the device ID

Answer: D

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.

Scenario: The iotdb database will contain two containers named con-iot1 and con-iot2. Ensure that Azure Cosmos DB costs for IoT-related processing are predictable. Reference:

<https://docs.microsoft.com/en-us/azure/architecture/solution-ideas/articles/iot-using-cosmos-db>

NEW QUESTION 3

- (Exam Topic 2)

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.

Answer Area

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"/>

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

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 4

- (Exam Topic 2)
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You have an Azure Cosmos DB Core (SQL) API account named account 1 that uses autoscale throughput. You need to run an Azure function when the normalized request units per second for a container in account1 exceeds a specific value.
Solution: You configure the function to have an Azure CosmosDB trigger. Does this meet the goal?

- A. Yes
B. No

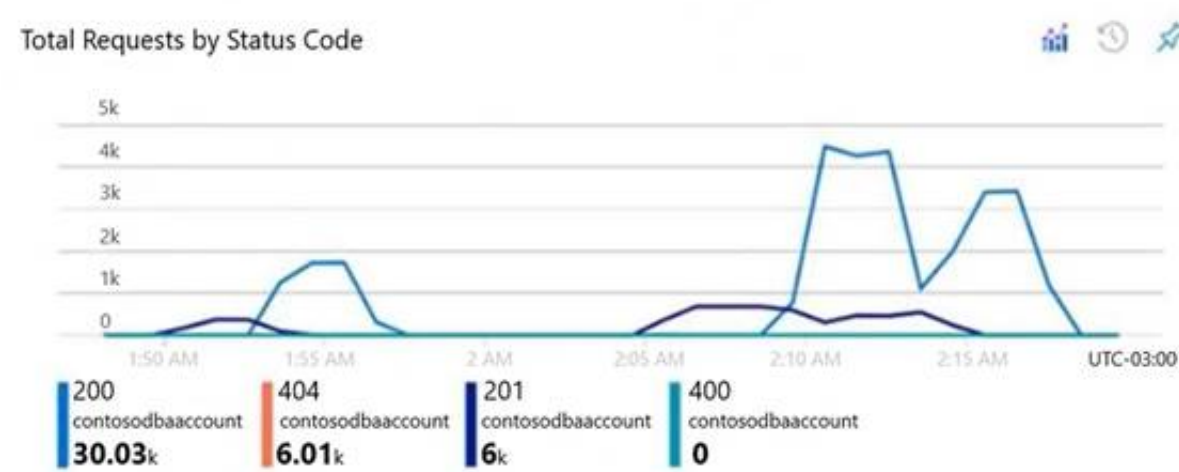
Answer: B

Explanation:

Instead configure an Azure Monitor alert to trigger the function.
You can set up alerts from the Azure Cosmos DB pane or the Azure Monitor service in the Azure portal. Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/create-alerts>

NEW QUESTION 5

- (Exam Topic 2)
You have an Azure Cosmos DB Core (SQL) API account used by an application named App1. You open the Insights pane for the account and see the following chart.



Use the drop-down menus to select the answer choice that answers each question based on the information presented in the graphic.
NOTE: Each correct selection is worth one point.

Answer Area

The HTTP 404 status code is caused by [answer choice]

	▼
incorrect connection URLs	
an intermittent firewall issue	
incorrectly formatted partition keys	
requesting resources that do not exist	

There are [answer choice] successful resource creations in the account during the time period of the chart

	▼
zero	
6 thousand	
6.01 thousand	
30.03 thousand	
36.03 thousand	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: incorrect connection URLs
400 Bad Request: Returned when there is an error in the request URI, headers, or body. The response body will contain an error message explaining what the specific problem is.
The HyperText Transfer Protocol (HTTP) 400 Bad Request response status code indicates that the server cannot or will not process the request due to something that is perceived to be a client error (for example, malformed request syntax, invalid request message framing, or deceptive request routing).
Box 2: 6 thousand
201 Created: Success on PUT or POST. Object created or updated successfully. Note:
200 OK: Success on GET, PUT, or POST. Returned for a successful response.
404 Not Found: Returned when a resource does not exist on the server. If you are managing or querying an index, check the syntax and verify the index name is specified correctly.
Reference: <https://docs.microsoft.com/en-us/rest/api/searchservice/http-status-codes>

NEW QUESTION 6

- (Exam Topic 2)
You have an app that stores data in an Azure Cosmos DB Core (SQL) API account The app performs queries that return large result sets. You need to return a complete result set to the app by using pagination. Each page of results must return 80 items. Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Configure MaxItemCount in QueryRequestOptions
Run the query and provide a continuation token
Configure MaxBufferedItemCount in QueryRequestOptions
Append the results to a variable
Run the query and increment MaxItemCount

Answer Area



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Configure the MaxItemCount in QueryRequestOptions
You can specify the maximum number of items returned by a query by setting the MaxItemCount. The MaxItemCount is specified per request and tells the query engine to return that number of items or fewer.
Box 2: Run the query and provide a continuation token
In the .NET SDK and Java SDK you can optionally use continuation tokens as a bookmark for your query's progress. Azure Cosmos DB query executions are stateless at the server side and can be resumed at any time using the continuation token.
If the query returns a continuation token, then there are additional query results.
Step 3: Append the results to a variable
Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/sql/sql-query-pagination>

NEW QUESTION 7

- (Exam Topic 2)
You are designing an Azure Cosmos DB Core (SQL) API solution to store data from IoT devices. Writes from the devices will be occur every second. The following is a sample of the data.


```
{
  "id" : "03c1ca5a-dbl8-4231-908f-09a9bc7a7c3e",
  "deviceManufacturer" : "Contoso, Ltd",
  "deviceId" : "f460df85-799f-4d58-b051-67561b4993c6",
  "timestamp" : "2021-09-19T13:47:45",
  "sensor1Value" : true,
  "sensor2Value" : "75",
  "sensor3Value" : "4554",
  "sensor4Value" : "454",
  "sensor5Value" : "42128"
}
```

You need to select a partition key that meets the following requirements for writes: Minimizes the partition skew
 Avoids capacity limits Avoids hot partitions What should you do?

- A. Use timestamp as the partition key.
- B. Create a new synthetic key that contains deviceId and sensor1Value.
- C. Create a new synthetic key that contains deviceId and deviceManufacturer.
- D. Create a new synthetic key that contains deviceId and a random number.

Answer: D

Explanation:

Use a partition key with a random suffix. Distribute the workload more evenly is to append a random number at the end of the partition key value. When you distribute items in this way, you can perform parallel write operations across partitions.
 Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/sql/synthetic-partition-keys>

NEW QUESTION 8

- (Exam Topic 2)

You need to implement a trigger in Azure Cosmos DB Core (SQL) API that will run before an item is inserted into a container.
 Which two actions should you perform to ensure that the trigger runs? Each correct answer presents part of the solution.
 NOTE: Each correct selection is worth one point.

- A. Append pre to the name of the JavaScript function trigger.
- B. For each create request, set the access condition in RequestOptions.
- C. Register the trigger as a pre-trigger.
- D. For each create request, set the consistency level to session in RequestOptions.
- E. For each create request, set the trigger name in RequestOptions.

Answer: C

Explanation:

C: When triggers are registered, you can specify the operations that it can run with.
 F: When executing, pre-triggers are passed in the RequestOptions object by specifying PreTriggerInclude and then passing the name of the trigger in a List object.
 Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/sql/how-to-use-stored-procedures-triggers-udfs>

NEW QUESTION 9

- (Exam Topic 2)

HOTSPOT

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	Suggester
id	Edm.String	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>		...
...

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.

Answer Area

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

country

id

name

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

country

id

name

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: country

The country field is filterable.

Note: filterable: Indicates whether to enable the field to be referenced in \$filter queries. Filterable differs from searchable in how strings are handled. Fields of type Edm.String or Collection(Edm.String) that are filterable do not undergo lexical analysis, so comparisons are for exact matches only.

Box 2: name

The name field is not Retrievable.

Retrievable: Indicates whether the field can be returned in a search result. Set this attribute to false if you want to use a field (for example, margin) as a filter, sorting, or scoring mechanism but do not want the field to be visible to the end user.

Note: searchable: Indicates whether the field is full-text searchable and can be referenced in search queries. Reference: <https://docs.microsoft.com/en-us/rest/api/searchservice/create-index>

NEW QUESTION 10

- (Exam Topic 2)

You have a database named telemetry in an Azure Cosmos DB Core (SQL) API account that stores IoT data. The database contains two containers named readings and devices.

Documents in readings have the following structure.

- id
- deviceid
- timestamp
- ownerid
- measures (array)
- type
- value
- metricid

Documents in devices have the following structure.

- id
- deviceid
- owner
- ownerid
- emailaddress
- name brand model

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	Yes	No
	To return for all devices owned by a specific emailaddress, multiple queries must be performed	<input type="radio"/>	<input type="radio"/>
	To return deviceid, ownerid, timestamp, and value for a specific metricid, a join must be performed	<input type="radio"/>	<input type="radio"/>
	To return deviceid, ownerid, emailaddress, and model, a join must be performed	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Yes

Need to join readings and devices.

Box 2: No

Only readings is required. All required fields are in readings.

Box 3: No

Only devices is required. All required fields are in devices.

NEW QUESTION 10

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