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Question 1

Question Type: Hotspot

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

Answer:

```
az cosmosdb sql database throughput
```

```
-a "account1" \
```

```
-g "cosmosdbrg" \
```

```
-n "db1" \
```

```
--throughput
```

migrate

show

update

400

4000

40000

Question 2

Question Type: MultipleChoice

You have an Azure Cosmos DB for NoSQL account that has multiple write regions.

You need to receive an alert when requests that target the database exceed the available request units per second (RU/s).

Which Azure Monitor signal should you use?

Options:

- A- Region Removed
- B- Provisioned Throughput
- C- Metadata Requests
- D- Data Usage

Answer:

C

Explanation:

Azure Monitor is a service that provides comprehensive monitoring for Azure resources, including Azure Cosmos DB. You can use Azure Monitor to collect, analyze, and alert on metrics and logs from your Azure Cosmos DB account. You can create alerts for Azure Cosmos DB using Azure Monitor based on the metrics, activity log events, or Log Analytics logs on your account¹.

For your scenario, if you want to receive an alert when requests that target the database exceed the available request units per second (RU/s), you should use the Document Quota metric. This metric measures the percentage of RU/s consumed by your account or container. You can create an alert rule on this metric from the Azure portal by following these steps²:

In the Azure portal, select the Azure Cosmos DB account you want to monitor.

Under the Monitoring section of the sidebar, select Alerts, and then select New alert rule.

In the Create alert rule pane, fill out the Scope section by selecting your subscription name and resource type (Azure Cosmos DB accounts).

In the Condition section, select Add condition and choose Document Quota from the list of signals.

In the Configure signal logic pane, specify the threshold value and operator for your alert condition. For example, you can choose Greater than or equal to 90 as the threshold value and operator to receive an alert when your RU/s consumption reaches 90% or more of your provisioned throughput.

In the Alert rule details section, specify a name and description for your alert rule.

In the Actions section, select Add action group and choose how you want to receive notifications for your alert. For example, you can choose Email/SMS/Push/Voice as an action type and enter your email address or phone number as a receiver.

Review your alert rule settings and select Create alert rule to save it.

Question 3

Question Type: MultipleChoice

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?

Options:

A- Cosmos DB Built-in Data Contributor only

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

Answer:

A

Explanation:

The Cosmos DB Built-in DataContributor 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.

Question 4

Question Type: Hotspot

You have an Azure Cosmos DB for NoSQL container. The container contains items that have the following properties.

Property	Data type	Filtered in queries
dateOfBirth	Date	Yes
hasProvidedTaxNumber	Boolean	Yes
healthStatus	String	No

st use the strongest type of

iate options in the answer

NOTE: Each correct selection is worth one point.

Answer Area

Answer:

dateOfBirth:

- Deterministic
- Randomized
- No encryption

healthStatus:

- Deterministic
- Randomized
- No encryption

Question 5

Question Type: MultipleChoice

You have an Azure Cosmos DB account named account1.

You have several apps that connect to account1 by using the account's secondary key.

You then configure the apps to authenticate by using service principals.

You need to ensure that account1 will only allow apps to connect by using an Azure AD identity.

Which account property should you modify?

Options:

- A- disableKeyBasedMetadataWriteAccess ,
- B- disableLocalAuth
- C- userAssignedIdentatxe
- D- allowedOrxgins

Answer:

B

Explanation:

The disableLocalAuth property is a boolean flag that indicates whether local authentication methods such as primary/secondary keys are disabled for the Azure Cosmos DB account. Setting this property to true improves security by ensuring that Azure Cosmos DB accounts exclusively require Azure Active Directory identities for authentication1.

Question 6

Question Type: MultipleChoice

You have an Azure Cosmos DB database named dataset contains a container named container1. The container1 container store product data and has the following indexing policy.

```
{
  "indexingMode": "consistent",
  "includedPaths":
  [
    {
      "path": "/product/category/?"
    },
    {
      "path": "/product/brand/?"
    }
  ],
  "excludedPaths":
  [
    {
      "path": "/*"
    },
    {
      "path": "/product/brand"
    }
  ]
}
```

Which path will be indexed?

Options:

- A- /product/brand
- B- /product/category
- C- /product/[]/category
- D- /product/brand/taillspin

Answer:

A

Explanation:

The indexing policy has an `includedPaths` array that contains only one path: `/product/brand/?` . This means that only the properties under `/product/brand` will be indexed. The `?` symbol indicates that only scalar values will be indexed, not arrays or objects¹.

The `excludedPaths` array contains a single path: `/*` . This means that all other properties will be excluded from indexing. The `*` symbol indicates a wildcard that matches any property name¹.

Therefore, the paths `/product/category` , `/product/[]/category` , and `/product/brand/taillspin` will not be indexed.

Question 7

Question Type: Hotspot

You have an Apache Spark pool in Azure Synapse Analytics that runs the following Python code in a notebook.

```
dfStream = spark.readStream\  
  .format("cosmos.oltp.changeFeed")\  
  .option("spark.synapse.linkedService", "contoso-app")\  
  .load()
```

Answer Area

Statements

Answer:

~~New and updated orders will be added to contoso-erp.orders.~~

The code performs bulk data ingestion from contoso-app.

Question 8

Question Type: MultipleChoice

~~Both contoso-app and contoso-erp have Analytical store enabled.~~

You have an Azure Cosmos DB for NoSQL account.

The change feed is enabled on a container named invoice.

You create an Azure function that has a trigger on the change feed.

What is received by the Azure function?

Options:

- A- all the properties of the updated items
- B- only the partition key and the changed properties of the updated items
- C- all the properties of the original items and the updated items
- D- only the changed properties and the system-defined properties of the updated items

Answer:

D

Explanation:

According to the Azure Cosmos DB documentation¹², the change feed is a persistent record of changes to a container in the order they occur. The change feed outputs the sorted list of documents that were changed in the order in which they were modified.

The Azure function that has a trigger on the change feed receives all the properties of the updated items². The change feed does not include the original items or only the changed properties. The change feed also includes some system-defined properties such as `_ts` (the last modified timestamp) and `_lsn` (the logical sequence number)³.

Therefore, the correct answer is:

Question 9

Question Type: Hotspot

You plan to implement con-iot1 and con-iot2.

You need to configure the default Time to Live setting for each container. The solution must meet the IoT telemetry requirements.

What should you configure? To answer, select the appropriate options in the answer NOTE: Each correct selection is worth one point.

Answer Area

Answer:

con-iot1:

con-iot2:

Question 10

Question Type: Hotspot

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

In account1, you run the following query in a container that contains 100GB of data.

```
SELECT *
```

```
FROM c
```

```
WHERE LOWER(c.categoryid) = "hockey"
```


You view the following metrics while performing the query.

```
Retrieved Document Count      :          45,654
Retrieved Document Size       :      543,765,234 bytes
Output Document Count         :              12
```

Statements	Yes	No
Answer: The query performs a cross-partition query	<input type="radio"/>	<input type="radio"/>

The query uses an index

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

Question 11

Question Type: Hotspot
Recreating the container with the partition key set to /categoryId will improve the performance of the query

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

RUNTIME EXECUTION TIMES

```
Query Engine Times : 299.16 milliseconds
System Function Execution Time : 79.34 milliseconds
User-defined Function Execution Time : 0.00 milliseconds
Document Write Time : 0.01 milliseconds
Client Side Metrics
Retry Count : 0
Request Charge : 3,898.95 RUs
```

the answer

Name	Description
development	<ul style="list-style-type: none">• Supports the development of new application features• Used intermittently as needed during development

development:	<input type="text"/>
Answer:	Serverless capacity mode
	Provisioned throughput capacity mode and manual throughput
	Provisioned throughput capacity mode and autoscale throughput

Explanation:	<input type="text"/>
shipments:	Serverless capacity mode
https://docs.microsoft.com/en-us/azure/cosmos-db/serverless	Provisioned throughput capacity mode and manual throughput
https://docs.microsoft.com/en-us/azure/cosmos-db/provision-throughput-autoscale#use-cases-of-autoscale	Provisioned throughput capacity mode and autoscale throughput

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