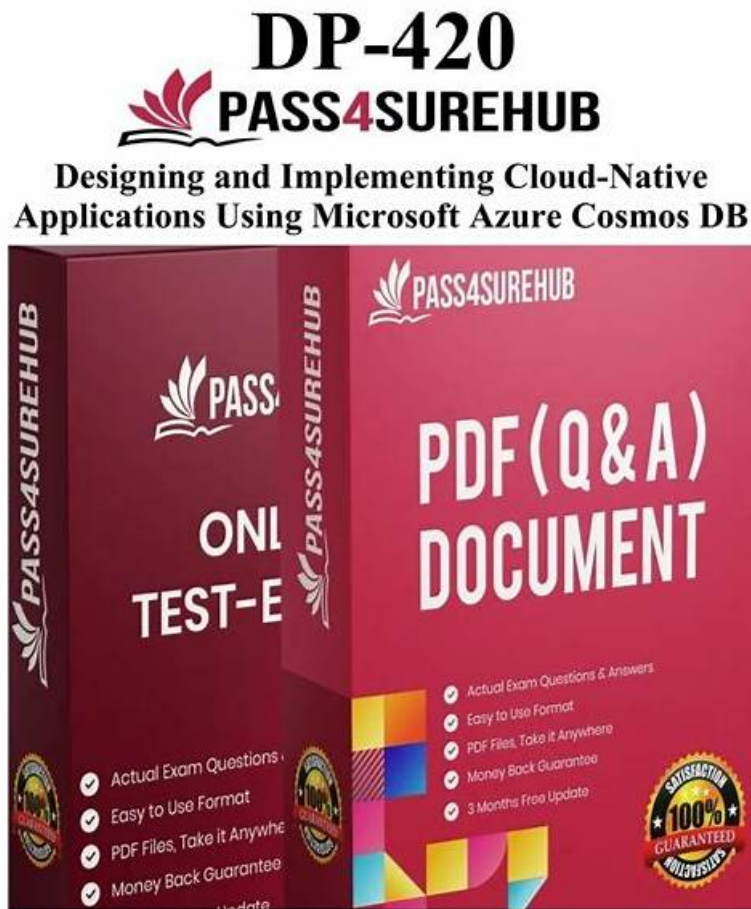


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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q93-Q98):

NEW QUESTION # 93

You have a database named db1 in an Azure Cosmos DB f You have a third-party application that is exposed thro You need to migrate data from the application to a What should you use?

- A. Database Migration Assistant
- **B. Azure Data Factory**
- C. Azure Migrate

Answer: B

Explanation:

Explanation

you can migrate data from various data sources to Azure Cosmos DB using different tools and methods. The choice of the migration tool depends on factors such as the data source, the Azure Cosmos DB API, the size of data, and the expected migration duration¹. Some of the common migration tools are:

Azure Cosmos DB Data Migration tool: This is an open source tool that can import data to Azure Cosmos DB from sources such as JSON files, MongoDB, SQL Server, CSV files, and Azure Cosmos DB collections. This tool supports the SQL API and the Table API of Azure Cosmos DB².

Azure Data Factory: This is a cloud-based data integration service that can copy data from various sources to Azure Cosmos DB using connectors. This tool supports the SQL API, MongoDB API, Cassandra API, Gremlin API, and Table API of Azure Cosmos DB³.

Azure Cosmos DB live data migrator: This is a command-line tool that can migrate data from one Azure Cosmos DB container to another container within the same or different account. This tool supports live migration with minimal downtime and works with any Azure Cosmos DB API⁴.

For your scenario, if you want to migrate data from a third-party application that is exposed through an OData endpoint to a container in Azure Cosmos DB for NoSQL, you should use Azure Data Factory. Azure Data Factory has an OData connector that can read data from an OData source and write it to an Azure Cosmos DB sink using the SQL API⁵. You can create a copy activity in Azure Data Factory that specifies the OData source and the Azure Cosmos DB sink, and run it on demand or on a schedule.

NEW QUESTION # 94

The settings for a container in an Azure Cosmos DB Core (SQL) API account are configured as shown in the following exhibit.

Settings

Indexing Policy

Time to Live

- ☐ Off
- ☒ On (no default)
- ☐ On



Geospatial Configuration

- ☒ Geography
- ☐ Geometry

Partition key

/productName

Which statement describes the configuration of the container?

- A. Items stored in the collection will be retained always, regardless of the items time to live value.
- B. All items will be deleted after one year.
- C. Items stored in the collection will expire only if the item has a time to live value.
- D. All items will be deleted after one hour.

Answer: C

Explanation:

When DefaultTimeToLive is -1 then your Time to Live setting is On (No default) Time to Live on a container, if present and the value is set to "-1", it is equal to infinity, and items don't expire by default.

Time to Live on an item:

This Property is applicable only if DefaultTimeToLive is present and it is not set to null for the parent container.

If present, it overrides the DefaultTimeToLive value of the parent container.

Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/sql/time-to-live>

NEW QUESTION # 95

You provision Azure resources by using the following Azure Resource Manager (ARM) template.

```

{
  "$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentTemplate.json#",
  "contentVersion": "1.0.0.0",
  "parameters": {
    "db": {
      "defaultValue": "[resourceId('Microsoft.DocumentDB/databaseAccounts', 'prod1')]",
      "type": "String"
    },
    "sms": {
      "defaultValue": "[resourceId('Microsoft.Insights/actionGroups', 'sms')]",
      "type": "String"
    }
  },
  "variables": {},
  "resources": [
    {
      "type": "microsoft.insights/actionGroups",
      "apiVersion": "2019-06-01",
      "name": "sms",
      "location": "Global",
      "properties": {
        "groupShortName": "Send message",
        "enabled": true,
        "emailReceivers": [],
        "smsReceivers": [
          {
            "name": "Action-SMS",
            "countryCode": "44",
            "phoneNumber": "7111111111"
          }
        ]
      }
    },
    {
      "type": "microsoft.insights/activityLogAlerts",
      "apiVersion": "2020-10-01",
      "name": "Alert1",
      "location": "Global",
      "dependsOn": ["sms"],
      "properties": {
        "scopes": [ "[parameters('db')]" ],
        "condition": {
          "allOf": [
            {
              "field": "category",
              "equals": "Administrative"
            },
            {
              "field": "operationName",
              "equals": "Microsoft.DocumentDB/databaseAccounts/regenerateKey/action"
            }
          ]
        },
        "actions": {
          "actionGroups": [
            {
              "actionGroupId": "[parameters('sms')]",
              "webhookProperties": {}
            }
          ]
        },
        "enabled": true
      }
    }
  ]
}

```

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 alert will be triggered when an Azure Cosmos DB key is used	<input type="radio"/>	<input type="radio"/>
Two alert actions will be performed when the alert is triggered	<input type="radio"/>	<input type="radio"/>
The alert will be triggered when an item that has a new partition key value is created	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Statements	Yes	No
The alert will be triggered when an Azure Cosmos DB key is used	<input type="radio"/>	<input checked="" type="radio"/>
Two alert actions will be performed when the alert is triggered	<input type="radio"/>	<input checked="" type="radio"/>
The alert will be triggered when an item that has a new partition key value is created	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION # 96

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

Last Write Wins (default) mode

Merge Procedures (custom) mode

An application that reads from the conflicts feed

Answer Area

Container1:

Container2:



Answer:

Explanation:

Configurations

Last Write Wins (default) mode

Merge Procedures (custom) mode

An application that reads from the conflicts feed

Answer Area

Container1:

Last Write Wins (default) mode

Container2:

Merge Procedures (custom) mode

Explanation:

Configurations

Last Write Wins (default) mode

Merge Procedures (custom) mode

An application that reads from the conflicts feed

Answer Area

Container1:

Last Write Wins (default) mode

Container2:

Merge Procedures (custom) mode

Box 1: Last Write Wins (LWW) (default) mode

Last Write Wins (LWW): This resolution policy, by default, uses a system-defined timestamp property. It's based on the time-synchronization clock protocol.

Box 2: Merge Procedures (custom) mode

Custom: This resolution policy is designed for application-defined semantics for reconciliation of conflicts.

When you set this policy on your Azure Cosmos container, you also need to register a merge stored procedure. This procedure is automatically invoked when conflicts are detected under a database transaction on the server. The system provides exactly once guarantee for the execution of a merge procedure as part of the commitment protocol.

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 # 97

You have a database named db1 in an Azure Cosmos DB for NoSQL.

You are designing an application that will use db1.

In db1, you are creating a new container named coll1 that will store in coll1.

The following is a sample of a document that will be stored in coll1.

```
{
  "customerId" : "bba6fe24-6d97-4935-8d58-36baa4b8a0e1",
  "orderId" : "9d7816e6-f401-42ba-ad05-0e03de35c0b8",
  "orderDate" : "2022-09-29",
  "orderDetails" : []
}
```

The application will have the following characteristics:

- * New orders will be created frequently by different customers.
- * Customers will often view their past order history.

You need to select the partition key value for coll1 to support the application. The solution must minimize costs.

To what should you set the partition key?

- A. orderId
- B. id

- C. orderDate
- D. customerId

Answer: C

Explanation:

Explanation

Based on the characteristics of the application and the provided document structure, the most suitable partition key value for coll1 in the given scenario would be the customerId, Option B.

The application frequently creates new orders by different customers and customers often view their past order history. Using customerId as the partition key would ensure that all orders associated with a particular customer are stored in the same partition. This enables efficient querying of past order history for a specific customer and reduces cross-partition queries, resulting in lower costs and improved performance.

a partition key is a JSON property (or path) within your documents that is used by Azure Cosmos DB to distribute data among multiple partitions³. A partition key should have a high cardinality, which means it should have many distinct values, such as hundreds or thousands¹. A partition key should also align with the most common query patterns of your application, so that you can efficiently retrieve data by using the partition key value¹.

Based on these criteria, one possible partition key that you could use for coll1 is B. customerId.

This partition key has the following advantages:

It has a high cardinality, as each customer will have a unique ID³.

It aligns with the query patterns of the application, as customers will often view their past order history³.

It minimizes costs, as it reduces the number of cross-partition queries and optimizes the storage and throughput utilization¹.

This partition key also has some limitations, such as:

It may not be optimal for scenarios where orders need to be queried independently from customers or aggregated by date or other criteria³.

It may result in hot partitions or throttling if some customers create orders more frequently than others or have more data than others¹.

It may not support transactions across multiple customers, as transactions are scoped to a single logical partition².

Depending on your specific use case and requirements, you may need to adjust this partition key or choose a different one. For example, you could use a synthetic partition key that concatenates multiple properties of an item², or you could use a partition key with a random or pre-calculated suffix to distribute the workload more evenly².

NEW QUESTION # 98

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