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There may be a lot of people feel that the preparation process for exams is hard and boring, and hard work does not necessarily mean good results, which is an important reason why many people are afraid of examinations. Today, our DP-420 exam materials will radically change this. High question hit rate makes you no longer aimless when preparing for the exam, so you just should review according to the content of our DP-420 Study Guide prepared for you. Instant answer feedback allows you to identify your vulnerabilities in a timely manner, so as to make up for your weaknesses. With our DP-420 practice quiz, you will find that the preparation process is not only relaxed and joyful, but also greatly improves the probability of passing the exam.

The DP-420 Exam consists of around 40-60 multiple choice and scenario-based questions. DP-420 exam is available in multiple languages, including English, Japanese, Chinese (Simplified), and Korean. DP-420 exam duration is 150 minutes, and the passing score is 700 out of 1000 points. Candidates who successfully pass the exam will receive the Microsoft Certified: Azure Developer Associate certification, which is valid for two years. Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB certification is recognized worldwide and can help professionals get better job opportunities and higher salaries.

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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q26-Q31):

NEW QUESTION # 26

You have the following query.

```
SELECT * FROM  
WHERE c.sensor = "TEMP1"  
AND c.value < 22
```

```
AND c.timestamp >= 1619146031231
```

You need to recommend a composite index strategy that will minimize the request units (RUs) consumed by the query.

What should you recommend?

- A. a composite index for (sensor ASC, value ASC, timestamp ASC) and a composite index for (sensor DESC, value DESC,

timestamp DESC)

- B. a composite index for (sensor ASC, value ASC) and a composite index for (sensor ASC, timestamp ASC)
- C. a composite index for (sensor ASC, value ASC, timestamp ASC)
- D. a composite index for (value ASC, sensor ASC) and a composite index for (timestamp ASC, sensor ASC)

Answer: B

Explanation:

If a query has a filter with two or more properties, adding a composite index will improve performance.

Consider the following query:

SELECT * FROM c WHERE c.name = 'Tim' and c.age > 18

In the absence of a composite index on (name ASC, and age ASC), we will utilize a range index for this query.

We can improve the efficiency of this query by creating a composite index for name and age.

Queries with multiple equality filters and a maximum of one range filter (such as >, <, <=, >=, !=) will utilize the composite index.

Reference:

<https://azure.microsoft.com/en-us/blog/three-ways-to-leverage-composite-indexes-in-azure-cosmos-db/>

NEW QUESTION # 27

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

You have the Azure virtual networks and subnets shown in the following table.

Subnet	Network	IP address range	Virtual machine
subnet1	vnet1	10.0.0.0/24	VM1
subnet2	vnet1	10.0.1.0/24	VM2
subnet3	vnet2	10.1.0.0/24	VM3

The vnet1 and vnet2 networks are connected by using a virtual network peer.

The Firewall and virtual network settings for account1 are configured as shown in the exhibit.

Allow access from

☐ All networks ☒ Selected networks

Configure network security for your Azure Cosmos DB account. [Learn more.](#)

Virtual networks

Secure your Azure Cosmos DB account with virtual networks. [+ Add existing virtual network](#) [+ Add new virtual network](#)

Virtual Network	Subnet	Address range	Endpoint Status
▼ vnet1	1	10.0.0.0/16	
	vnet1.subnet1	10.0.1.0/24	✓ Enabled

Firewall

Add IP ranges to allow access from the internet or your on-premises networks. [+Add my current IP](#) ⓘ

IP(Single IPv4 or CIDR range)

Exceptions

☐ Accept connections from within public Azure datacenters ⓘ

☒ Allow access from Azure Portal ⓘ

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
VM1 can access account 1	<input type="radio"/>	<input type="radio"/>
VM2 can access account 1	<input type="radio"/>	<input type="radio"/>
VM3 can access account 1	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Statements	Yes	No
VM1 can access account 1	<input checked="" type="radio"/>	<input type="radio"/>
VM2 can access account 1	<input type="radio"/>	<input checked="" type="radio"/>
VM3 can access account 1	<input type="radio"/>	<input checked="" type="radio"/>

Explanation:

Statements	Yes	No
VM1 can access account 1	<input checked="" type="radio"/>	<input type="radio"/>
VM2 can access account 1	<input type="radio"/>	<input checked="" type="radio"/>
VM3 can access account 1	<input type="radio"/>	<input checked="" type="radio"/>

Box 1: Yes

VM1 is on vnet1.subnet1 which has the Endpoint Status enabled.

Box 2: No

Only virtual network and their subnets added to Azure Cosmos account have access. Their peered VNets cannot access the account until the subnets within peered virtual networks are added to the account.

Box 3: No

Only virtual network and their subnets added to Azure Cosmos account have access.

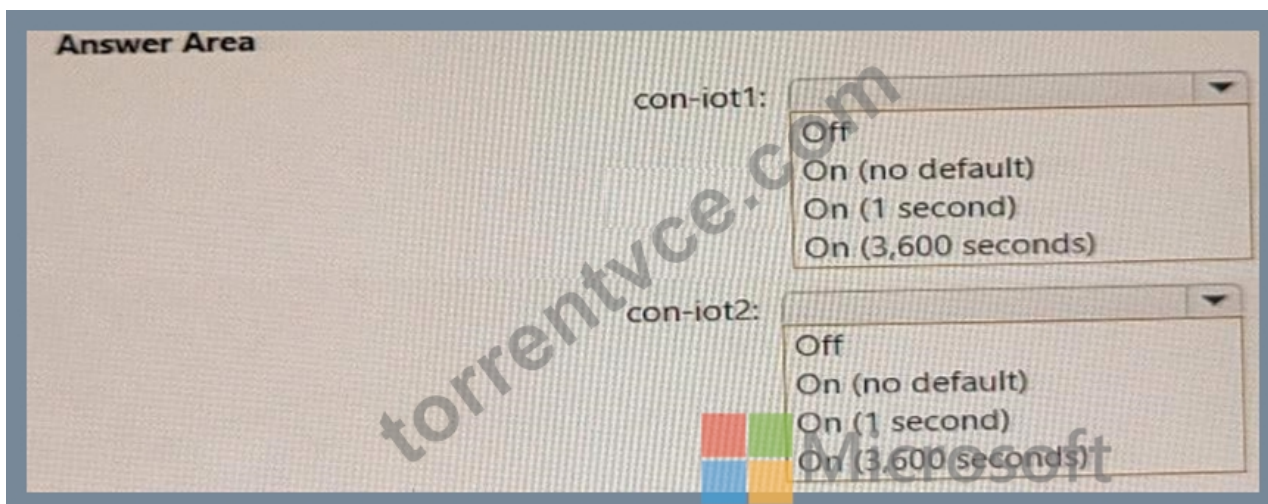
Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/how-to-configure-vnet-service-endpoint>

NEW QUESTION # 28

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

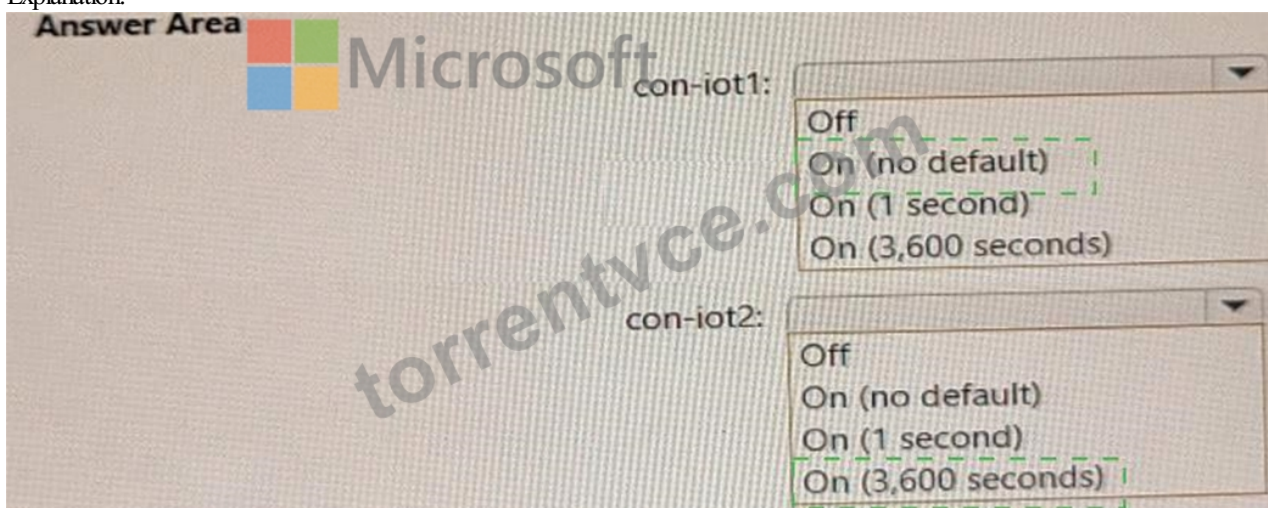
You need to configure the default Time to Live setting for each container. The solution must meet the IoT telemetry requirements.

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



Answer:

Explanation:



Explanation

Box 1 = On (no default) For con-iot1, you need to configure the default TTL setting to On (no default), which means that items in this container do not expire by default, but you can override the TTL value on a per-item basis. This meets the requirement of retaining all telemetry data unless overridden.

Box 2 = On (3600 seconds) For con-iot2, you need to configure the default TTL setting to On (3600 seconds), which means that items in this container will expire 3600 seconds (one hour) after their last modified time. This meets the requirement of deleting all telemetry data older than one hour.

NEW QUESTION # 29

You have three containers in an Azure Cosmos DB Core (SQL) API account as shown in the following table.

Name	Database	Time to Live
cn1	db1	On (no default)
cn2	db1	Off
cn3	db1	On (no default)

You have the following Azure functions:

A function named Fn1 that reads the change feed of cn1

A function named Fn2 that reads the change feed of cn2

A function named Fn3 that reads the change feed of cn3

You perform the following actions:

Delete an item named item1 from cn1.

Update an item named item2 in cn2.

For an item named item3 in cn3, update the item time to live to 3,600 seconds.

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
Fn1 will receive item1 from the change feed	<input type="radio"/>	<input type="radio"/>
Fn2 can check the <code>_etag</code> of item2 to see whether the item is an update or an insert	<input type="radio"/>	<input type="radio"/>
Fn3 will receive item3 from the change feed	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Statements	Yes	No
Fn1 will receive item1 from the change feed	<input type="radio"/>	<input checked="" type="radio"/>
Fn2 can check the <code>_etag</code> of item2 to see whether the item is an update or an insert	<input type="radio"/>	<input checked="" type="radio"/>
Fn3 will receive item3 from the change feed	<input checked="" type="radio"/>	<input type="radio"/>

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/sql/change-feed-design-patterns>

<https://docs.microsoft.com/en-us/azure/cosmos-db/change-feed>

NEW QUESTION # 30

You have an Azure Cosmos DB container named container1.

You need to insert an item into container1. 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

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

7200	▼
-1	
2	
120	
7200	

Answer:

Explanation:

Answer Area

```
{
  "id": "1",
  "customerOrderNumber": "XA2342893",
  "orderDate": "2022-04-22T09:34:42",
  "customerNumber": 234223,
  "orderItems":
  [
    {
      "id": 1,
      "quantity": 12,
      "productCode": "B2348LK"
    }
  ],
  "_attachments": "attachments/",
  "ttl": 7200,
  "_ttl": 7200,
  "_ts": 1551322496
}
```



NEW QUESTION # 31

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