



**Free Questions for DP-420 by certsinside**

**Shared by Nicholson on 09-08-2024**

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## Question 1

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### Question Type: MultipleChoice

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You have an Azure Cosmos DB for NoSQL account that uses a custom conflict resolution policy. The account has a registered merge procedure that throws a runtime exception. The runtime exception prevents conflicts from being resolved.

You need to use an Azure function to resolve the conflicts. What should you use?

### Options:

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- A- a function that pulls items from the change feed and is triggered by a timer trigger
- B- a function that receives items pushed from the conflicts feed and is triggered by an Azure Cosmos DB trigger
- C- a function that pulls items from the conflicts feed and is triggered by a timer trigger
- D- a function that receives items pushed from the change feed and is triggered by an Azure Cosmos DB trigger

### Answer:

---

B

## Question 2

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**Question Type: Hotspot**

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You have the following Azure Resource Manager (ARM) template.

```
{
  "type": "Microsoft.DocumentDB/databaseAccount",
  "apiVersion": "2022-08-15",
  "name": "acct01",
  "properties": {
    "enableAutomaticIndexing": true
  }
}
```

; true. Otherwise, select No.

**Answer Area**

**Statements**

**Answer:**

When the template is deployed, an Azure Cosmos DB account named `acct01` will be created if the account does **NOT** exist.

When the template is deployed, a container named `mycontainer` in `mydb` will be created if the container does **NOT** exist.

When the template is deployed, if `mycontainer` exists and has a partition key on `name`, the partition key will change to `companyid`.

**Question 3**

**Question Type:** Hotspot

You have an Azure Cosmos DB for NoSQL account that contains a container named `container1`.

You plan to use `container1` as a key-value store that will perform point reads on the item ID and partition key.

You need to define an indexing policy for `container1`. The solution must meet the following requirements:

- \* Provide the ability to set `DefaultTimeToLive` for `container1`.
- \* Minimize implementation time.
- \* Minimize costs.

How should you complete the JSON definition of the indexing policy? To answer, select the appropriate options in the answer area.

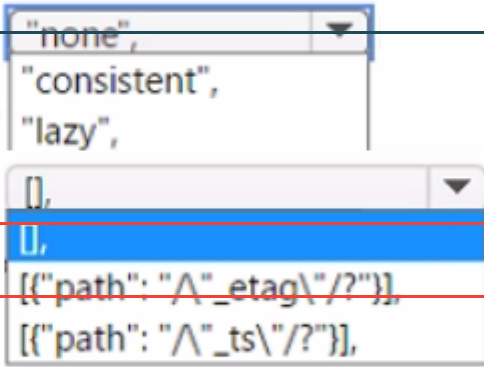
```
"includedPaths": [
  {
    "path": "/"
  },
  {
    "path": "/headquarters/country/?"
  }
],
"excludedPaths": [
  {
    "path": "/headquarters/*"
  }
],
"compositeIndexes": [
  {
    "paths": [
      "/headquarters/country/?"
    ]
  }
]
```

NOTE: Each correct selection is worth one point.

### Answer Area

Answer:

```
{  
  "indexingMode":  
    "automatic": false,  
    "includedPaths":  
    "excludedPaths": [{"path": "/"}]  
}
```



The image shows a configuration interface with two dropdown menus. The first dropdown, labeled "indexingMode", has three options: "none", "consistent", and "lazy". The second dropdown, labeled "includedPaths", has four options: an empty array "[]", a single element "[{"path": "\\_etag\"/?"}]", a single element [{"path": "\\_ts\"/?"}]", and a single element [{"path": "\\_etag\"/?"}], [{"path": "\\_ts\"/?"}]".

## Question 4

Question Type: Hotspot

You have an Azure subscription that contains an Azure Cosmos DB for NoSQL account named account1 and a Log Analytics workspace named Workspace1. Workspace 1 stores the logs of account1.

You need to identify which operations used the most request units per second (RU/s) during the last 24 hours.

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

NOTE: Each correct selection is worth one point

## Answer Area

Answer:

- AnswerActivity
- AzureDiagnostics**
- AzureMetrics

## Question 5

Question Type: Hotspot

- \"ControlPlaneRequests\"
- \"DataPlaneRequests\"**
- \"PartitionKeyStatistics\"

You have a container named container1 in an Azure Cosmos DB for NoSQL account.

The following is a sample of a document in container1.

```
{
  "studentId": "631282"
  "firstName": "James",
```

Otherwise, select No.

### Answer Area

Answer:

Statements	Yes	No
The /isActivelyEnrolled property is included in the index.	<input type="radio"/>	<input type="radio"/>
The /firstname 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"/>

## Question 6

Question Type: Hotspot

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.

```
{
  "indexingMode": "consistent",
  "includedPaths": [
    {
      "path": "/*"
    },
    {
      "path": "/address/city/?"
    }
  ],
  "excludedPaths": [
    {
      "path": "/address/*"
    },
    {
      "path": "/address/city/?"
    }
  ]
}
```

## Total Requests by Status Code



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

Answer:

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

## Question 7

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

Question Type: Hotspot

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.

- zero
- 6 thousand
- 6.01 thousand
- 30.03 thousand
- 36.03 thousand



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



Allow access from

All networks  Selected networks

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

Statements	Yes	No	
VM1 can access account 1	<input type="radio"/>	<input type="radio"/>	<a href="#">Add virtual network</a> <a href="#">+Add new virtual network</a>
VM2 can access account 1	<input type="radio"/>	<input type="radio"/>	<b>Address range</b> 10.0.0.0/16
VM3 can access account 1	<input type="radio"/>	<input type="radio"/>	10.1.0/24 <b>Endpoint Status</b> ✓ Enabled

## Question 8

Question Type: Hotspot

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

You have a 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.

Accept connections from within public Azure datacenters ⓘ

Allow access from Azure Portal ⓘ

NOTE: Each correct selection is worth one point.

Backup interval

	▼
1 hour	
24 hours	
1 weeks	

Answer:

---

**Question 9** Backup retention

	▼
2 days	
1 week	
30 days	

**Question Type:** Hotspot

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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

**Answer:** The /isActivelyEnrolled property is included in the index

**Question 10** The /firsrtname property is included in the index

**Question Type:** MultipleChoice

The /address/city property is included in the index

You have a container named container1 in an Azure Cosmos DB Core (SQL) API account. Upserts of items in container1 occur every three seconds.

You have an Azure Functions app named function1 that is supposed to run whenever items are inserted or replaced in container1.

You discover that function1 runs, but not on every upsert.

You need to ensure that function1 processes each upsert within one second of the upsert.

Which property should you change in the Function.json file of function1?

**Options:**

A- checkpointInterval

**B-** leaseCollectionsThroughput

**C-** maxItemsPerInvocation

**D-** feedPollDelay

### **Answer:**

---

D

### **Explanation:**

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With an upsert operation we can either insert or update an existing record at the same time.

**FeedPollDelay:** The time (in milliseconds) for the delay between polling a partition for new changes on the feed, after all current changes are drained. Default is 5,000 milliseconds, or 5 seconds.

Incorrect Answers:

**A: checkpointInterval:** When set, it defines, in milliseconds, the interval between lease checkpoints. Default is always after each Function call.

**C: maxItemsPerInvocation:** When set, this property sets the maximum number of items received per Function call. If operations in the monitored collection are performed through stored procedures, transaction scope is preserved when reading items from the change feed. As a result, the number of items received could be higher than the specified value so that the items changed by the same transaction are returned as part of one atomic batch.

## Question 11

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**Question Type: Hotspot**

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You have the indexing policy shown in the following exhibit.



▼ Test

When creating a query, which ORDER BY statement will execute successfully?

Answer:

- ORDER BY c.age ASC, c.name ASC
- ORDER BY c.age DESC, c.name DESC
- ORDER BY c.name ASC, c.age DESC
- ORDER BY c.name DESC, c.age ASC
- ORDER BY c.name DESC, c.age DESC

During the creation of an item, when will the index update?

- Never
- At a scheduled interval
- At the same time as the item creation
- After the item appears in the change feed

```
15      [
16      {
17          "path": "/name"
18      },
19      {
20          "path": "/age"
21      }
22      ]
23  ]
24  }
```



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