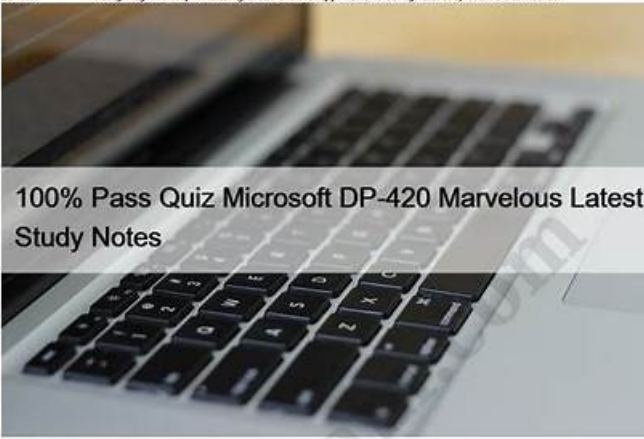


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- Languages: English
- The passing scores: 70%
- Number of Questions: 40-60
- Time Duration: 60 minutes

Achieving the Microsoft DP-420 certification can open up new career opportunities for you as a cloud-native application developer or architect. It can help you demonstrate your expertise in designing and implementing scalable and highly available cloud-native applications using Cosmos DB, which is a critical component of the Microsoft Azure ecosystem. By passing DP-420 Exam, you can show potential employers that you have the skills and knowledge needed to develop and deploy cloud-native applications that meet the demands of modern businesses.

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## Quiz Efficient DP-420 - New Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Test Bootcamp

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Microsoft DP-420 Exam focuses on designing and implementing cloud-native applications using Microsoft Azure Cosmos DB. DP-420 exam is intended for developers who have experience working with Azure Cosmos DB, and who want to demonstrate their ability to design and implement cloud-native applications that are scalable, highly available, and secure.

## Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q14-Q19):

### NEW QUESTION # 14

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**

```
az cosmosdb sql database throughput
```

**Answer:**

**Explanation:**

**Answer Area**

Microsoft

```
az cosmosdb sql database throughput
```

-a "account1" \

-g "cosmosdbrg" \

-n "db1" \

--throughput

migrate

show

update

400

4000

40000

Explanation

Migrate

40000

According to the Azure CLI reference , you need to use the az cosmosdb sql database throughput migrate command to migrate the throughput of the SQL database between autoscale and manually provisioned. You also need to use the --throughput-type parameter to specify the type of throughput to migrate to, and the --max-throughput parameter to specify the maximum throughput resource can scale to (RU/s).

To complete the CLI statements, you should replace the missing values with:

\* --throughput-type autoscale

\* --max-throughput 40000

The final command should look like this:

```
az cosmosdb sql database throughput migrate \
```

```
--account-name account1 \
```

```
--name db1 \
```

```
--resource-group rg1 \
```

```
--throughput-type autoscale \
```

```
--max-throughput 40000
```

### NEW QUESTION # 15

You have an Azure Cosmos DB Core (SQL) API account named account1 that has the disableKeyBasedMetadataWriteAccess property enabled.

You are developing an app named App1 that will be used by a user named DevUser1 to create containers in account1. DevUser1 has a non-privileged user account in the Azure Active Directory (Azure AD) tenant.

You need to ensure that DevUser1 can use App1 to create containers in account1.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Grant permissions to create containers by using:

Account keys

Resource tokens

Role-based access control (RBAC)

Create containers by using the:

Azure AD Graph API

Azure Resource Manager API

SQL (Core) API

**Answer:**

Explanation:



Grant permissions to create containers by using:

Account keys
Resource tokens
Role-based access control (RBAC)

Create containers by using the:

Azure AD Graph API
Azure Resource Manager API
SQL (Core) API

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/secure-access-to-data>

<https://docs.microsoft.com/en-us/rest/api/resources/>

### NEW QUESTION # 16

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**

```
az cosmosdb sql database throughput
```

-a "account1" \  
-g "cosmosdbrg" \  
-n "db1" \  
--throughput

migrate  
show  
update

400  
4000  
40000

**Answer:**

**Explanation:**

**Answer Area**

```
az cosmosdb sql database throughput
```

-a "account1" \  
-g "cosmosdbrg" \  
-n "db1" \  
--throughput

migrate  
show  
update

400  
4000  
40000

**Explanation:**

Migrate

40000

According to the Azure CLI reference<sup>1</sup>, you need to use the `az cosmosdb sql database throughput migrate` command to migrate the throughput of the SQL database between autoscale and manually provisioned. You also need to use the `--throughput-type` parameter to specify the type of throughput to migrate to, and the `--max-throughput` parameter to specify the maximum throughput

resource can scale to (RU/s).

To complete the CLI statements, you should replace the missing values with:

\* --throughput-type autoscale

\* --max-throughput 40000

The final command should look like this:

az cosmosdb sql database throughput migrate \

--account-name account1 \

--name db1 \

--resource-group rg1 \

--throughput-type autoscale \

--max-throughput 40000

### NEW QUESTION # 17

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")\
    .option("spark.cosmos.container", "orders")\
    .option("spark.cosmos.preferredRegions", "westus,eastus")\
    .option("spark.cosmos.changeFeed.startFrom", "Beginning")\
    .option("spark.cosmos.changeFeed.mode", "Incremental")\
    .load()

streamQuery = dfStream\
    .writeStream\
    .format("cosmos.oltp")\
    .option("spark.synapse.linkedService", "contoso-erp")\
    .option("spark.cosmos.container", "orders")\
    .option("checkpointLocation", "/tmp/ordersync/")\
    .outputMode("append")\
    .start()

streamQuery.awaitTermination()
```

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		Yes	No
Statements			
New and updated orders will be added to contoso-erp.orders.		<input type="radio"/>	<input type="radio"/>
The code performs bulk data ingestion from contoso-app.		<input type="radio"/>	<input type="radio"/>
Both contoso-app and contoso-erp have Analytical store enabled.		<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:



Answer Area			Yes	No
Statements				
New and updated orders will be added to contoso-erp.orders.			<input checked="" type="radio"/>	<input type="radio"/>
The code performs bulk data ingestion from contoso-app.			<input type="radio"/>	<input checked="" type="radio"/>
Both contoso-app and contoso-erp have Analytical store enabled.			<input checked="" type="radio"/>	<input type="radio"/>

#### Explanation

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

The code performs bulk data ingestion from contoso-app: No

Both contoso-app and contoso-erp have Analytics store enabled: Yes

The code uses the `spark.readStream` method to read data from a container named `orders` in a database named `contoso-app`. The data is then filtered by a condition and written to another container named `orders` in a database named `contoso-erp` using the `spark.writeStream` method. The write mode is set to "append", which means that new and updated orders will be added to the destination container<sup>1</sup>.

The code does not perform bulk data ingestion from `contoso-app`, but rather stream processing. Bulk data ingestion is a process of loading large amounts of data into a data store in batches. Stream processing is a process of continuously processing data as it arrives in real-time<sup>2</sup>.

Both `contoso-app` and `contoso-erp` have Analytics store enabled, because they are both accessed by Spark pools using the `spark.cosmos.oltp` method. This method requires that the containers have Analytics store enabled, which is a feature that allows Spark pools to query data stored in Azure Cosmos DB containers using SQL APIs<sup>3</sup>.

#### NEW QUESTION # 18

You plan to create an Azure Cosmos DB database named `db1` that will contain two containers. One of the containers will contain blog posts, and the other will contain users. Each item in the blog post container will include:

- \* A single blog post
- \* All the comments associated to the blog post
- \* The names of the users who created the blog post and added the comments.

You need to design a solution to update usernames in the user container without causing data integrity issues.

The solution must minimize administrative and development effort. What should you include in the solution?

To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

#### Answer Area

In the user container, implement:

- ☒ A stored procedure
- ☐ The change feed processor
- ☐ A post-trigger
- ☒ A stored procedure
- ☐ A user-defined function

In the blog post container, implement:

- ☒ The change feed processor
- ☒ The change feed processor
- ☐ A post-trigger
- ☐ A stored procedure
- ☐ A user-defined function

#### Answer:

#### Explanation:



**Answer Area**



In the blog post container, implement:

- The change feed processor
- A post-trigger
- A stored procedure
- A user-defined function

In the blog post container, implement: The change feed processor

• • • • •

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