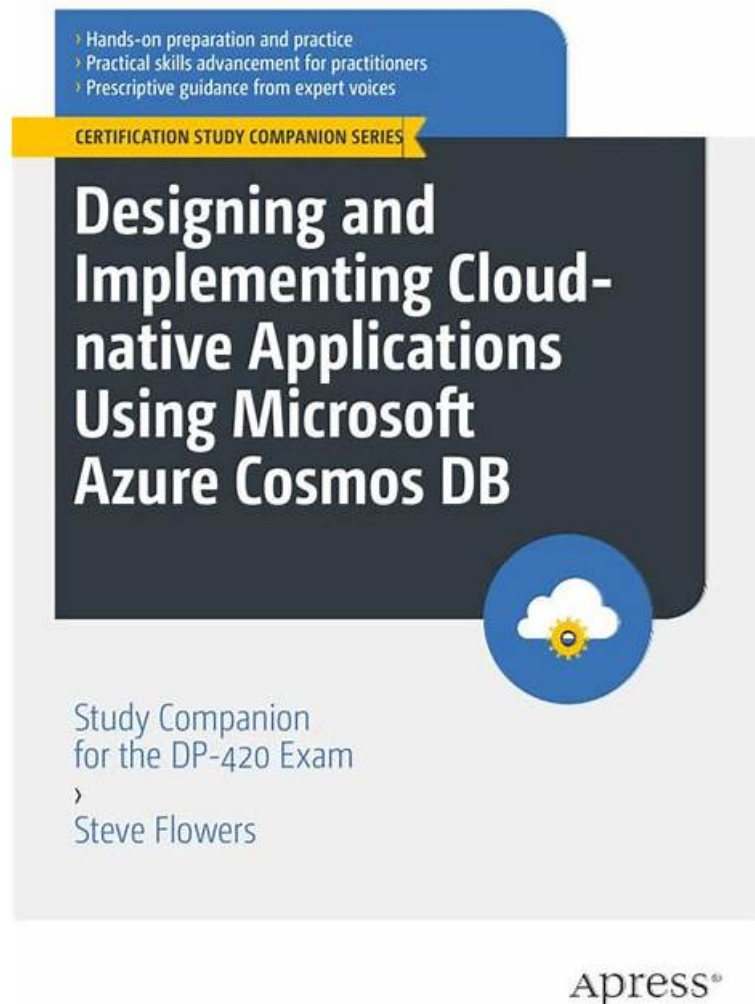


# Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB free sure questions & DP-420 easy download preparation



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To prepare for the DP-420 exam, candidates should have a thorough understanding of Azure Cosmos DB's architecture, data modeling, and indexing capabilities. They should also be familiar with the various APIs and programming models that are available for working with Azure Cosmos DB. Microsoft offers several training resources, including online courses, practice exams, and study guides, to help candidates prepare for the DP-420 Exam.

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## Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q18-Q23):

### NEW QUESTION # 18

You plan to deploy two Azure Cosmos DB Core (SQL) API accounts that will each contain a single database.

The accounts will be configured as shown in the following table.

How should you provision the containers within each account to minimize costs? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

#### Answer:

Explanation:

Explanation:

Box 1: Serverless capacity mode

Azure Cosmos DB serverless best fits scenarios where you expect intermittent and unpredictable traffic with long idle times. Because provisioning capacity in such situations isn't required and may be cost-prohibitive, Azure Cosmos DB serverless should be considered in the following use-cases:

Getting started with Azure Cosmos DB

Running applications with bursty, intermittent traffic that is hard to forecast, or low (<10%) average-to-peak traffic ratio  
Developing, testing, prototyping and running in production new applications where the traffic pattern is unknown  
Integrating with serverless compute services like Azure Functions  
Box 2: Provisioned throughput capacity mode and autoscale throughput  
The use cases of autoscale include:

Variable or unpredictable workloads: When your workloads have variable or unpredictable spikes in usage, autoscale helps by automatically scaling up and down based on usage. Examples include retail websites that have different traffic patterns depending on seasonality; IOT workloads that have spikes at various times during the day; line of business applications that see peak usage a few times a month or year, and more. With autoscale, you no longer need to manually provision for peak or average capacity.

Reference:

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

<https://docs.microsoft.com/en-us/azure/cosmos-db/provision-throughput-autoscale#use-cases-of-autoscale>

### NEW QUESTION # 19

The following is a sample of a document in orders.

The orders container uses customer as the partition key.

You need to provide a report of the total items ordered per month by item type. The solution must meet the following requirements:

Ensure that the report can run as quickly as possible.

Minimize the consumption of request units (RUs).

What should you do?

- A. Configure the report to query a new aggregate container. Populate the aggregates by using the change feed.
- B. Configure the report to query orders by using a SQL query.
- C. Configure the report to query a new aggregate container. Populate the aggregates by using SQL queries that run daily.
- D. Configure the report to query orders by using a SQL query through a dedicated gateway.

#### Answer: A

Explanation:

You can facilitate aggregate data by using Change Feed and Azure Functions, and then use it for reporting.

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

### NEW QUESTION # 20

You have an Azure Cosmos DB account named account1 that has a default consistency level of session.

You have an app named App1.

You need to ensure that the read operations of App1 can request either bounded staleness or consistent prefix consistency.

What should you modify for each consistency level? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

Explanation:

Box 1 = The request level options

Azure Cosmos DB offers five well-defined consistency levels: strong, bounded staleness, session, consistent prefix and eventual.

You can configure the default consistency level on your Azure Cosmos DB account at any time<sup>2</sup>. The default consistency level applies to all databases and containers under that account<sup>1</sup>. You can also override the default consistency level for a specific request by using the request options<sup>2</sup>.

Box 2 = The request level options

To modify the consistency level of a read operation in Azure Cosmos DB, you can use request-level options to override the account's default consistency setting. Therefore, to ensure that the read operations of App1 can request either consistent prefix or session consistency, you need to modify the request-level options for each operation. Reference: - <https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels>

**NEW QUESTION # 21**

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.

**Answer:**

Explanation:

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 # 22**

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:**

Explanation:

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 # 23**

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