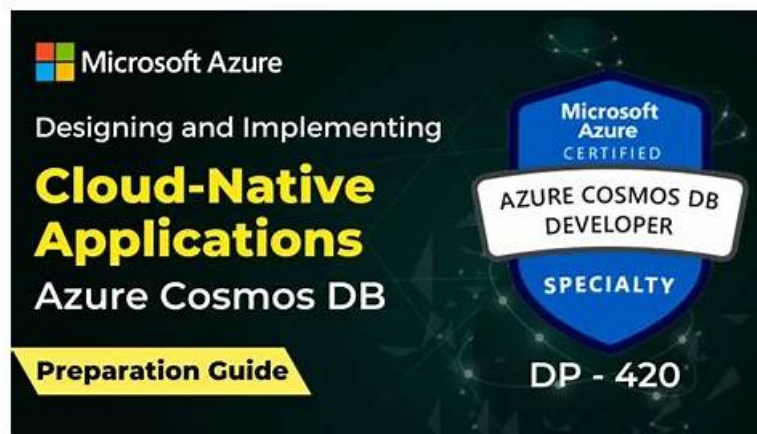


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You won't be anxious because the available Microsoft DP-420 exam dumps are structured instead of distributed. Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB (DP-420) certification exam candidates have specific requirements and anticipate a certain level of satisfaction before buying a Microsoft DP-420 Practice Exam. The Microsoft DP-420 practice exam applicants can rest assured that Exam4Free's round-the-clock support staff will answer their questions.

Microsoft DP-420 Certification Exam is an excellent opportunity for professionals who are interested in advancing their careers in cloud computing. By earning this certification, you can demonstrate your expertise in Azure Cosmos DB and cloud-native application development, which can help you stand out in a competitive job market and open up new career opportunities.

Microsoft DP-420 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Design and Implement Data Distribution: Microsoft developers delve into designing replication strategies and implementing multi-region writes for Azure Cosmos DB. These skills ensure high availability, fault tolerance, and enhanced global performance for distributed applications, making them vital for enterprise-grade solutions.
Topic 2	<ul style="list-style-type: none">Design and Implement Data Models: This topic equips Microsoft developers to design and implement non-relational data models for Azure Cosmos DB for NoSQL, emphasizing partitioning strategies, database sizing, and scaling. Developers master connectivity using the Azure Cosmos DB SDK and SQL language for NoSQL, ensuring seamless data access. Additionally, server-side programming with JavaScript empowers robust solutions tailored to specific application needs.
Topic 3	<ul style="list-style-type: none">Integrate an Azure Cosmos DB Solution: This topic focuses on enabling analytical workloads and integrating Azure Cosmos DB across services. Developers learn to leverage cross-service integrations for cohesive solutions, driving advanced analytics and operational efficiency in cloud-native applications.
Topic 4	<ul style="list-style-type: none">Optimize an Azure Cosmos DB Solution: Developers gain expertise in optimizing query performance using Azure Cosmos DB for NoSQL APIs, implementing change feeds, and crafting effective indexing strategies. This topic ensures solutions are performant, scalable, and adaptive to evolving data requirements, enhancing application responsiveness.
Topic 5	<ul style="list-style-type: none">Maintain an Azure Cosmos DB Solution: This section covers monitoring, troubleshooting, and securing Azure Cosmos DB solutions. Developers master backup and restore procedures, implement data movement, and streamline processes using DevOps. These skills ensure operational reliability and safeguard data integrity in production environments.

Interactive DP-420 EBook | Real DP-420 Question

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The DP-420 exam is a great way to prove your expertise in designing and implementing cloud-native applications using Azure Cosmos DB. You'll be tested on your ability to design and implement data models, partition data, optimize query performance, and troubleshoot common issues. Additionally, you'll be required to demonstrate your knowledge of event-driven architectures and how to use Azure Functions, Azure Event Grid, and Azure Stream Analytics to build them. Passing the DP-420 Exam will give you a competitive edge in the job market and open up new career opportunities in cloud-native application development.

Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q90-Q95):

NEW QUESTION # 90

You have an Azure Cosmos DB for NoSQL account that has multiple write regions.

You need to receive an alert when requests that target the database exceed the available request units per second (RU/s).

Which Azure Monitor signal should you use?

- A. Data Usage
- **B. Document Quota**
- C. Metadata Requests
- D. Region Removed

Answer: B

Explanation:

Explanation

Azure Monitor is a service that provides comprehensive monitoring for Azure resources, including Azure Cosmos DB. You can use Azure Monitor to collect, analyze, and alert on metrics and logs from your Azure Cosmos DB account. You can create alerts for Azure Cosmos DB using Azure Monitor based on the metrics, activity log events, or Log Analytics logs on your account. For your scenario, if you want to receive an alert when requests that target the database exceed the available request units per second (RU/s), you should use the Document Quota metric. This metric measures the percentage of RU/s consumed by your account or container. You can create an alert rule on this metric from the Azure portal by following these steps. In the Azure portal, select the Azure Cosmos DB account you want to monitor.

Under the Monitoring section of the sidebar, select Alerts, and then select New alert rule.

In the Create alert rule pane, fill out the Scope section by selecting your subscription name and resource type (Azure Cosmos DB accounts).

In the Condition section, select Add condition and choose Document Quota from the list of signals.

In the Configure signal logic pane, specify the threshold value and operator for your alert condition. For example, you can choose Greater than or equal to 90 as the threshold value and operator to receive an alert when your RU/s consumption reaches 90% or more of your provisioned throughput.

In the Alert rule details section, specify a name and description for your alert rule.

In the Actions section, select Add action group and choose how you want to receive notifications for your alert. For example, you can choose Email/SMS/Push/Voice as an action type and enter your email address or phone number as a receiver.

Review your alert rule settings and select Create alert rule to save it.

NEW QUESTION # 91

You have a database named telemetry in an Azure Cosmos DB Core (SQL) API account that stores IoT data.

The database contains two containers named readings and devices.

Documents in readings have the following structure.

id

deviceid

timestamp
ownerid
measures (array)
- type
- value
- metricid

Documents in devices have the following structure.

id
deviceid
owner
- ownerid
- emailaddress
- name
brand
model

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:

Explanation:

Explanation

Box 1: Yes

Need to join readings and devices.

Box 2: No

Only readings is required. All required fields are in readings.

Box 3: No

Only devices is required. All required fields are in devices.

NEW QUESTION # 92

You need to create a data store for a directory of small and medium-sized businesses (SMBs). The data store must meet the following requirements:

- * Store companies and the users employed by them. Each company will have less than 1,000 users.
- * Some users have data that is greater than 2 KB.
- * Associate each user to only one company.
- * Provide the ability to browse by company.
- * Provide the ability to browse the users by company.
- * Whenever a company or user profile is selected, show a details page for the company and all the related users.
- * Be optimized for reading data.

Which design should you implement to optimize the data store for reading data?

- A. Create a user container that uses the user ID as the partition key and a company container that container that uses the company ID as the partition key. Add the company ID to each user documents.
- B. In a user container, create a document for each user. Embed the company into each user document. Use the user ID as the partition key.
- **C. In a company container, create a document for each company. Embed the users into company documents. Use the company ID as the partition key.**
- D. In a directory container, create a document for each company and a document for each user. Use company ID as the partition key.

Answer: C

Explanation:

Explanation

Azure Cosmos DB is a multi-model database that supports various data models, such as documents, key-value, graph, and column-family³. The core content-model of Cosmos DB's database engine is based on atom-record-sequence (ARS), which allows it to store and query different types of data in a flexible and efficient way³.

To optimize the data store for reading data, you should consider the following factors:

The size and shape of your data

The frequency and complexity of your queries

The latency and throughput requirements of your application

The trade-offs between storage efficiency and query performance

Based on these factors, one possible design that you could implement is B. In a company container, create a document for each company. Embed the users into company documents. Use the company ID as the partition key.

This design has the following advantages:

It stores companies and users as self-contained documents that can be easily retrieved by company ID¹.

It avoids storing redundant data or creating additional containers for users¹.

It allows you to browse by company and browse the users by company with simple queries¹.

It shows a details page for the company and all the related users by fetching a single document¹.

It leverages the benefits of embedding data, such as reducing the number of requests, improving query performance, and simplifying data consistency².

This design also has some limitations, such as:

It may not be suitable for some users who have data that is greater than 2 KB, as it could exceed the maximum document size limit of 2 MB².

It may not be optimal for scenarios where users need to be associated with more than one company or queried independently from companies².

It may not be scalable for companies that have more than 1,000 users, as it could result in hot partitions or throttling².

Depending on your specific use case and requirements, you may need to adjust this design or choose a different one. For example, you could use a hybrid data model that combines embedding and referencing data²

, or you could use a graph data model that expresses entities and relationships as vertices and edges.

NEW QUESTION # 93

You have an Azure Cosmos DB Core (SQL) API account named storage1 that uses provisioned throughput capacity mode.

The storage1 account contains the databases shown in the following table.

☐ The databases contain the containers shown in the following table.

☐ 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:

Explanation:

☐ Explanation:

☐ Box 1: No

Four containers with 1000 RU/s each.

☐ Box 2: No

Max 8000 RU/s for db2. 8 containers, so 1000 RU/s for each container.

☐ Box 3: Yes

Max 8000 RU/s for db2. 8 containers, so 1000 RU/s for each container. Can very well add an additional container.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/plan-manage-costs>

<https://azure.microsoft.com/en-us/pricing/details/cosmos-db/>

NEW QUESTION # 94

You have a container named container1 in an Azure Cosmos DB Core (SQL) API account. The container1 container has 120 GB of data.

The following is a sample of a document in container1.

☐ The orderId property is used as the partition key.

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:

Explanation:

☐

NEW QUESTION # 95

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