200 XP

Knowledge check

3 minutes

Choose the best response for each of the questions below. Then select **Check your answers**.

Check your knowledge

1. What are the elements of an Azure Table storage key?

- ○ Table name and column name
- ◉ Partition key and row key ✓

  That's correct. The partition key identifies the partition in which a row is located, and the rows in each partition are stored in row key order.
- ○ Row number

2. When should you use a block blob, and when should you use a page blob?

- ○ Use a block blob for unstructured data that requires random access to perform reads and writes. Use a page blob for discrete objects that rarely change.
- ○ Use a block blob for active data stored using the Hot data access tier, and a page blob for data stored using the Cool or Archive data access tiers.
- ◉ Use a page blob for blobs that require random read and write access. Use a block blob for discrete objects that change infrequently. ✓

  That's correct. Use a page block for blobs that require random read and write access. Use a block blob for discrete objects that change infrequently.

3. Why might you use Azure File storage?

- ○ To share files that are stored on-premises with users located at other sites.
- ◉ To enable users at different sites to share files. ✓

That's correct. You can create a file share in Azure File storage, upload files to this file share, and grant access to the file share to remote users.

- ○ To store large binary data files containing images or other unstructured data.

4. You are building a system that monitors the temperature throughout a set of office blocks, and sets the air conditioning in each room in each block to maintain a pleasant ambient temperature. Your system has to manage the air conditioning in several thousand buildings spread across the country/region, and each building typically contains at least 100 air-conditioned rooms. What type of NoSQL data store is most appropriate for capturing the temperature data to enable it to be processed quickly?

- ◉ Send the data to an Azure Cosmos DB database and use Azure Functions to process the data. ✓

That's correct. Cosmos DB can ingest large volumes of data rapidly. A thermometer in each room can send the data to a Cosmos DB database. You can arrange for an Azure Function to run as each item is stored. The function can examine the temperature, and kick off a remote process to configure the air conditioning in the room.

- ○ Store the data in a file stored in a share created using Azure File Storage.
- ○ Write the temperatures to a blob in Azure Blob storage.

Next unit: Summary

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