Vendor: Microsoft

Exam Code: 70-583

Exam Name: PRO: Designing and Developing Windows Azure Applications

Version: DEMO

QUESTION 1
You are designing a plan to migrate Microsoft SQL Server 2008 databases to SQL Azure. You do not plan to migrate the SQL Server databases to SQL Server 2008 R2. You need to recommend an approach for performing bulk data transfers from the SQL Server databases to SQL Azure.
What should you recommend?

A. Use the bcp utility.
B. Use the dta utility.
C. Use the SQL Server Import and Export Wizard.
D. Attach each SQL Server database to SQL Azure.

Answer: A
Explanation:
The bcp utility bulk copies data between an instance of Microsoft SQL Server and a data file in a user- specified format. The bcp utility can be used to import large numbers of new rows into SQL Server tables or to export data out of tables into data files. Except when used with the queryout option, the utility requires no knowledge of Transact-SQL. To import data into a table, you must either use a format file created for that table or understand the structure of the table and the types of data that are valid for its columns.

QUESTION 2
You are designing a plan for migrating an existing Microsoft SQL Server 2008 database to SQL Azure. The database includes a SQL Server Agent job that cleans the application log table. You need to recommend an approach for ensuring that the SQL Server Agent job continues to run without modification.
What should you recommend?

A. Use the SQL Azure Data Sync service.
B. Run the SQL Server Agent in SQL Azure.
C. Use SQL Server Integration Services (SSIS) to connect to SQL Azure.
D. Connect the existing on-premise SQL Server Agent jobs to SQL Azure.

Answer: D
Explanation:
SQL Azure Database does not support SQL Server Agent or jobs. You can, however, run SQL Server Agent on your on-premise SQL Server and connect to SQL Azure Database.

QUESTION 3
You are planning the migration of an existing application to Windows Azure and SQL Azure. The current application includes reports that are hosted by SQL Server Reporting Services. You need to recommend an approach for migrating the reports.
What should you recommend?

A. Use SQL Azure to host client report definitions.
B. Use SQL Azure to host server report definitions.
C. Use Windows Azure to host client report definitions in an ASP.NET webpage.
D. Use Windows Azure to host server report definitions in an ASP.NET webpage.

Answer: C

QUESTION 4

You are planning to move streaming media content to Windows Azure Storage. You need to recommend an approach for providing worldwide users the fastest possible access to the content. Which two actions should you recommend?
(Each correct answer presents part of the solution. Choose two.)

A. Use a Shared Access Signature.
B. Use Windows Azure page blob storage.
C. Use Windows Azure block blob storage.
D. Use the Windows Azure Content Delivery Network (CDN).

Answer: CD
Explanation:
You can store text and binary data in either of two types of blobs:
Block blobs, which are optimized for streaming.
Page blobs, which are optimized for random read/write operations and which provide the ability to write to a range of bytes in a blob.
Windows Azure provides the Windows Azure Content Delivery Network (CDN) to deliver Windows Azure Blob content. Windows Azure CDN offers developers a global solution for delivering high-bandwidth content.
The benefit of using a CDN is better performance and user experience for users who are farther from the source of the content stored in the Windows Azure blob storage.

QUESTION 5
You are designing a plan for migrating Virtual Hard Disks (VHDs) and video files to Windows Azure Storage.
The VHDs must be optimized for random read/write operation. The video files must be optimized for sequential access. You need to recommend storage types for storing the VHDs and video files.
Which two storage types should you recommend?
(Each correct answer presents part of the solution. Choose two.)

A. Store VHDs in Windows Azure page blob storage.
B. Store VHDs in Windows Azure block blob storage.
C. Store video files in Windows Azure page blob storage.
D. Store video files in Windows Azure block blob storage.

Answer: AD
Explanation:
You can store text and binary data in either of two types of blobs:
Block blobs, which are optimized for streaming.
Page blobs, which are optimized for random read/write operations and which provide the ability to write to a range of bytes in a blob.
After you create or change the server image, you are ready to upload the .vhd file that contains the image data to Windows Azure. There are two opportunities for uploading VHDs to Windows Azure. When you initially create a VM role, you upload a base VHD to Windows Azure, which is used as a template to create VM role instances.

QUESTION 6
You are designing a Windows Azure application that will use Windows Azure Table storage. The application will allow teams of users to collaborate on projects.
Each user is a member of only one team.
You have the following requirements:

```
- Ensure that each user can efficiently query records related to his or
her team's projects.
- Minimize data access latency.
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You need to recommend an approach for partitioning table storage entities.
What should you recommend?

A. Partition by user.
B. Partition by team.
C. Partition by project.
D. Partition by the current date.

Answer: B

QUESTION 7
You are designing a Windows Azure application that will use Windows Azure Table storage. You
need to recommend an approach for minimizing storage costs.
What should you recommend?

A. Use Entity Group Transactions.
B. Use multiple partitions to store data.
C. Use a transaction scope to group all storage operations.
D. Use Microsoft Distributed Transaction Coordinator (MSDTC).

Answer: A
Explanation:
The Table service supports batch transactions on entities that are in the same table and belong to
the same partition group. Multiple Insert Entity, Update Entity, Merge Entity, Delete Entity, Insert
Or Replace Entity, and Insert Or Merge Entity operations are supported within a single
transaction.
You can perform entity group transactions either via REST or by using the .NET Client Library for
WCF Data Services.
oder
Minimize the cost of storage by storing the large files in Windows Azure Table Storage versus
SQL Azure (though BLOB storage is preferred for files)
oder
The Microsoft Distributed Transaction Coordinator (MS DTC) is a transaction manager that allows
client applications to include several different sources of data in one transaction. MS DTC
coordinates committing the distributed transaction across all the servers enlisted in the
transaction.

QUESTION 8
You are designing an application that will use Windows Azure Table storage to store millions of
data points each day.
The application must retain each day's data for only one week. You need to recommend an
approach for minimizing storage transactions.
What should you recommend?

A. Use a separate table for each date.
   Delete each table when it is one week old.
B. Use a separate table for each week.
   Delete each table when it is one week old.

C. Use a single table, partitioned by date.
   Use Entity Group Transactions to delete data when it is one week old.
D. Use a single table, partitioned by week.
   Use Entity Group Transactions to delete data when it is one week old.

Answer: A

QUESTION 9
You are designing a Windows Azure application that will store data in two SQL Azure databases.
The application will insert data in both databases as part of a single logical operation. You need
to recommend an approach for maintaining data consistency across the databases.
What should you recommend?

A. Execute database calls on parallel threads.
B. Wrap the database calls in a single transaction scope.
C. Use Microsoft Distributed Transaction Coordinator (MSDTC).
D. Handle errors resulting from the database calls by using compensatory logic.

Answer: D

QUESTION 10
A Windows Azure application stores data in a SQL Azure database. The application will start an
operation that includes three insert statements. You need to recommend an approach for rolling
back the entire operation if the connection to SQL Azure is lost.
What should you recommend?

A. Ensure that all statements execute in the same database transaction.
B. Create a stored procedure in the database that wraps the insert statements in a TRY CATCH
   block.
C. Create a stored procedure in the database that wraps the insert statements in a TRANSACTION
   block.
D. Open a new connection to the database.
   Use a separate transaction scope to roll back the original operation.

Answer: A

QUESTION 11
An application uses Windows Azure Table storage.
The application uses five tables.
One table used by the application is approaching the limit for storage requests per second. You
need to recommend an approach for avoiding data access throttling.
What should you recommend?

A. Use a single partition key for the table.
B. Compress data before storing it in the table.
C. Create additional partition keys for the table.
D. Continually remove unnecessary data from the table.

Answer: C

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