

QUESTIONS & ANSWERS

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Microsoft

70-473

Design and Implement Cloud Data Platform Solutions

Section 4: Sec Four (49 to 54)

Details: Case Study: 3 Overview

Contoso, Ltd. Is a national scientific research company that has sales, marketing. And research departments. Contoso has a main office in Dallas and more than 20 satellite offices across the United States. Some employees work off-site at customer locations. Contoso is expected to double in size during the next two years.

Existing Environment

The Microsoft SQL server environment contains the server configured as shown in the following table.

Server name	Role	Application name
SQL01	Online Transaction Processing (OLTP) primary database	One Sale
SQL02	A mirror of SQL01 and used for ad hoc reporting	One Report
SQL03	A data warehouse	One Data
Research01	A database server used by the research department	Research Gen II

Contoso currently uses SQL Server 2008 R2 on all of the database servers, SQL01 currently requires six cores and 50 GB memory.

Once a day, database snapshots are taken on the mirror to provide ad hoc reporting and to load data warehouse.

One report is used for ad hoc reporting by using the mirrored copy of the OLTP database. Research Gen IT is a Windows application that users currently access by using Remote Desktop. Business Goals

Contoso identifies the following business goals:

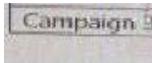
- Minimize the costs associated with purchasing hardware and software.
- Prevent any negative impact on performance when moving database platforms to the cloud.
- Audit user access to and query execution on all of the database in the research department. Planned Changes
- Upgrade SQL03 from SQL Server 2008 R2 to SQL Server 2014 on Windows Server 2012 R2.
- Migrate SQL01 and SQL02 to Infrastructure as a Service (IAAS) on SQL Server 2014.
- Leverage cloud services for a disaster recovery location and for high availability.
- Replace Research Gen II with a cloud-based application named One Research. The database for this application will be migrated to a cloud service.

Departmental Requirements

Senior research project leaders must be able to upload databases to the cloud. Initially, the databases will be less than 3 GB. Some databases may grow to 50 GB. The databases must be recoverable to any point during the past two weeks.

The research project leaders must monitor the performance of their databases. They must view statistics, such as query performance and overall database performance.

The marketing department plans to use cloud services to host web applications for marketing campaigns. The database for the web applications have the requirements shown in the following table.



Technical Requirements

- Contoso identifies the following technical requirements:
- OLTP will be offloaded to Microsoft Azure virtual machines.
- The data for One Report must not be more than 15 minutes old.
- All of the databases for the OLTP system must be implemented on solid state drives (SSDs)
- A solution for the OLTP system must be created to provide disaster recovery and reporting between SQL01 and SQL02.
- All databases, except for the research and marketing databases, must be recoverable to any point during the last 30 days.
- A solution for the data warehouse system must be created to provide disaster recovery between SQL03 and an Azure virtual machine named SQL04.

QUESTION: 49

You are designing the data warehouse.

You need to recommend a solution that meets the business goals and the technical requirements. What should you recommend?

- A. Create an AlwaysOn availability group between SQL03 and SQL04.
- B. Host the data warehouse on an Azure Virtual machine.
- C. Create an Azure HDInsight cluster.
- D. Create an Azure DocumentDB database.

Answer: B

QUESTION: 50

You are designing the data warehouse. You need to recommend a solution that meets the business goals and the technical requirements. What should you recommend?

- A. Create an AlwaysOn availability group between SQL03 and SQL04.
- B. Host the data warehouse on an Azure virtual machine.
- C. Create an Azure HDInsight cluster.
- D. Create an Azure Document DB database.

Answer: C

QUESTION: 51

You are evaluating the use of active geo-replication for one of the research department databases. You need to identify which service tier to use for the database. The solution must meet the department requirements and the business requirements. What should you identify?

- A. Premium P1
- B. Premium P4
- C. Standard S0
- D. BaQc

Answer: D

QUESTION: 52

You need to ensure that the performance statistics for the research department are collected. What should you enable?

- A. Query Performance Insight
- B. Scale and Configuration
- C. Dynamic Data Masking
- D. Index advisor

Answer: C

QUESTION: 53

You need to tell the research project leaders how to migrate their databases. Which task should you instruct the leaders to use from SQL Server Management Studio?

- A. Extract Data-tier Application
- B. Deploy Database to a Microsoft Azure VM
- C. Deploy Database to a Microsoft Azure SQL Database
- D. Copy Database

Answer: B

QUESTION: 54

You need to recommend an auditing solution that meets the business goals. Which three events should you include in the recommendation? Each correct answer presents part of the solution.

- A. Transaction Management
- B. Stored Procedure
- C. Plain SQL
- D. Login
- E. Failed Connections

Answer: D

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