

70-443

Microsoft

PRO: Designing a Database Server Infrastructure by Using Microsoft SQL Server 2005

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Topic 1, Trey Research, Scenario

BACKGROUND

Company Overview

Trey Research is a nonprofit organization that provides research support to many organizations in the United States.

The company has a single office ,which is located in Chicago.

Planned Changes

The company plans to implement a new SQL Server 2005 failover cluster. This cluster will have one instance for each of three databases that are currently on a mainframe computer. The three databases are named Research., Parts, and Engineering. These databases will hold mission-critical data. The configuration will use a four-node failover cluster to provide an N+1 configuration. This cluster will named SQLCLUST.

When these databases are moved to SQLCLUST, a new identity column will be added to most tables in all of the databases to create a surrogate primary key. When the databases move to production, the seed value should be reset for all identity columns.

New Web services-based applications will be designed to access the Parts, Engineering, Customer, and Bids databases. Users will access these applications by using their Windows credentials.

The company plans to reduce database administration cost by consolidating existing SQL Server computers. The company wants to minimize the number of SQL Server computers and SQL Server instances.

The company plans to create a Bid_Archive database. All rows that contain information on completed bids that do not result in a new extended contract should be moved immediately from the Bids database to Bid_Archive.This information should be available for data retrieval, but changes should not be made to the Bid_Archive database.

EXISTING DATA ENVIRONMENT

Databases

Trey Research currently has eight databases, as shown in the following table.

Database	Data stored
Customer	All Information on customers and current contracts
Contractor	Information on subcontractors and billing
Accounting	Customer billing, accounts payable, and payroll
HR	All current and past employee information including benefits, retirements, and annual reviews
Bids	Future projects and bids
Engineering	Information used for tracking engineering processes
Research	General research and development (R&D) information including schedules and project guidelines
Parts	Information for tracking individual parts and part properties

Data in the Contractor database is read far more frequently than it is modified.

The Bid_Tracking table in the Bids database includes a Completed column that is set to 1 when the bid is no longer active. The table also has a Successful column that is set to 1 when the bid results in a new or extended contract.

Database Servers

The company has three existing SQL Server 2005 computers running with default instances, which contain the databases shown in the following table.

Server name	Databases	Current free server capacity
CertKillerA	Accounting, HR	70 percent
CertKillerB	Customer, Bids	70 percent
CertKillerC	Contractor	80 percent

Database Client Computers

Active Directory Infrastructure

The Trey Research network consists of a single Active Directory domain. All users use Windows user accounts to access SQL Server.

BUSINESS REQUIREMENTS

General Requirements

The company will store completed annual performance review forms in the HR database. Each review form will be larger than 9,000 characters. The column that holds the review form should be able to handle multiple languages and alphabets to support expected international growth in the future. The company wants this data to be accessible in a single column.

The accounting managers must be able to view the current state of the data in the Accounting database at the close of any given day during last seven days. They should be able to undo changes if necessary. Although a single field will not be updated more than once per day, it might be updated on several consecutive days.

Performance

To improve the performance on the Customer database, the company wants to move all

information to a Customer_Archive database that will be available for running long reports that are currently causing contention problems. Management wants to minimize network traffic between the Customer database and the distribution database. In addition, management wants to use the Customer_Archive database as an added layer of fault tolerance. Although additional servers are available, management prefers to use existing servers.

Availability

The Customer database must not fail when a single hard disk on the server fails. The solution must support hot-swappable drives. Additional hardware is available to support this solution.

Recoverability

The Customer database receives numerous changes daily during the business hours of 09:00 to 17:00. The majority of these changes occur the afternoon hours. Very few changes are made outside of business hours. Business requirements allow for up to one hour of data loss. No more than six backups should be required for any recovery. After performance of different backup scenarios was tested, company policy was revised to state that full database backups should not be performed during business hours and differential backups should be performed only once during business hours.

TECHNICAL REQUIREMENTS

Security

The administrators of the Accounting and HR databases are members of a domain global group named Certkiller A_DBA.

These administrators are responsible for managing all databases and SQL Server configurations on Certkiller A.

Users who are members of the DBAdmins global group are responsible for managing the SQL Server instances on Certkiller B and Certkiller C

The central IT department manages the physical computers and the Windows operating systems on which the SQL Server computers reside. Members of the DBAdmins group do not have Windows administrative privileges.

All employee user accounts should be assigned only the minimum permissions that the employees need in order to perform their jobs.

The company's written security policy states that when users of one database need access to another database on a separate SQL Server computer or SQL Server instance, delegation should be used.

Services should not be installed unless absolutely necessary.

Currently, all employees in the human resources (HR) department need read access to every table in the HR database. Hiring managers need to be able to read, add, delete, and modify data in five tables in the HR database. The company plans to add additional tables to which only a few HR employees should have read access. In addition, there will be future employees who will need read access to only one table.

The company is deploying a new custom application to manage the replication for the new Customer_Archive database. The company plans to use common language runtime (CLR) in integration and CLR stored procedures in the Customer database to provide limited and controlled access to the shares and files on Certkiller B.

All assemblies should be created with dbo as the owner.

Maintainability

SQL Server Agent jobs will be scheduled on all servers for maintenance. Alerts will be sent by using Database Mail. No messages will be sent by using Net send. SQL Server computers will have a limited number of Windows shares available for replication and management

Interoperability

All namespaces that are used for Web services applications must be reserved so that another program on the computer cannot reserve the same, even if the SQL Server service is not running.

Topic 1, Trey Research (11 Questions)

QUESTION 1

You need to set up the Bid_Archive database. What should you do?

- A. Configure merge replication to move the data between the Bids and Bid_Archive databases.
- B. Set up DML triggers to move rows from the Bids database to the Bid_Archive database when the Completed column in the Bid_Tracking table is set to 1 and the Successful column is set to 0.
- C. Configure snapshot replication to move all data from the Bids to the Bid_Archive database.
- D. Create a job that is scheduled to run every hour to check for rows in the Bid_Tracking table where the Completed column is set to 1 and the Successful column is set to 0.

Answer: B

QUESTION 2

You need to identify the combinations of the Windows operating system and SQL Server 2005 version that will be the most appropriate for the new R&D configuration, which will include the Research, Parts, and Engineering databases. Which two combinations will be the most appropriate? (Each correct answer presents a complete solution. Choose two.)

- A. Windows Server 2003 Enterprise Edition with SQL Server 2005 Enterprise Edition
- B. Windows Server 2003 Datacenter Edition with SQL Server 2005 Enterprise Edition
- C. Windows Server 2003 Standard Edition with SQL Server 2005 Enterprise Edition
- D. Windows Server 2003 Enterprise Edition with SQL Server 2005 Standard Edition

Answer: A,D

QUESTION 3

Your account name is Pat and you are a member of the db_owner database role. You have the permissions that are required to create the assembly for the new custom application that manages the replication for the Customer database. You need to minimize the attack surface on the server, while creating the assembly for the CLR to use. You need to ensure that your solution fulfills the companys security requirements.

Which two options should you use? (Each correct answer presents part of the solution. Choose two.)

- A. WITH PERMISSION_SET = External_Access
- B. WITH PERMISSION_SET = Unsafe
- C. WITH PERMISSION_SET = Safe
- D. AUTHORIZATION dbo
- E. AUTHORIZATION Pat

Answer: A,D

Explanation:

D: Case study text: All assemblies should be created with dbo as the owner.

QUESTION 4

You are a member of the DBAdmins group. You need to configure the HTTP endpoints for the new Web services application that will access the Customer database. You want to accomplish this goal by using the minimum amount of administrative effort, while fulfilling the companys technical requirements. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Install Internet Information Services (IIS) 6.0 on Certkiller B.
- B. Create an implicit namespace reservation while executing the CREATE ENDPOINT command.
- C. Ask the Windows administrator to create an explicit namespace reservation for the HTTP endpoint.
- D. Assign the Control permission on the endpoint to all users that will use the Web services application.
- E. Assign the Connect permission on the endpoint to all users that will use the Web services application.

Answer: C,E

QUESTION 5

You need to define the data type and the table options for a new column named AnnualReview in the HR database. Which two options should you select? (Each correct answer presents part of the solution. Choose two.)

- A. Use the text data type.
- B. Use the nvarchar(max) data type.
- C. Use the varchar(max) data type.
- D. Set the large value types out of row option to Off.
- E. Set the large value types out of row option to On.
- F. Set the text in row option to Off.
- G. Set the text in row option to 7000.

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