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**Exam :** 070-450

**Title :** PRO:MS SQL Serv  
08, Design, Optimize, and Maintain  
DB Admin Solu

**Vendors :** Microsoft

**Version :** DEMO

NO.1 You administer a SQL Server 2008 Reporting Services (SSRS) instance.

You plan to design an authentication method for SSRS reports that use SQL Server data connections.

You need to ensure that all SSRS reports communicate to the SQL Server instance by using the Kerberos authentication protocol.

What should you do?

- A. Configure the default Web site on the instance to use the Integrated Security type.
- B. Configure the application pool used by the default Web site to use a domain account.
- C. Configure the default Web site on the instance to use the Secure Sockets Layer (SSL) protocol.
- D. Register a service principal name (SPN) in the Active Directory directory service for the SSRS instance.

Answer: D

NO.2 You administer SQL Server 2008 servers on a single site.

The site contains the following two SQL Server 2008 instances:

An Enterprise Edition server on a server that has a redundant array of independent disks (RAID) 10 disk system

A Standard Edition server on a server that has a RAID 5 disk system

Each instance hosts a single application.

You need to recommend a high-availability solution for the site to meet the following business requirements:

The solution can be implemented on the existing systems.

The database is available with minimal downtime.

Data loss is minimal.

There is minimal effect on the existing system.

What are two possible ways to achieve this goal? (Each correct answer presents a complete solution.

Choose two.)

- A. Replication
- B. Log shipping
- C. Failover clustering
- D. Database snapshot

Answer: A,B

NO.3 You administer a SQL Server 2008 instance.

You plan to deploy a third-party database application to the instance. The application uses stored

procedures that are developed by using SQL CLR integration.

The application must be configured to enable the EXTERNAL\_ACCESS code access security setting.

You need to ensure that the application is deployed to the instance without loss of functionality.

What should you do first?

- A. Replace read write non-static fields in the code with static fields.
- B. Replace read-only static fields in the code with read write static fields.
- C. Use the peverify.exe PEVerify tool to verify whether the code meets the type-safety requirements.
- D. Use the regasm.exe assembly registration tool to register the assembly on the server before deployment.

Answer: C

NO.4 You administer SQL Server 2008 instances at three sites.

All sites share a mission-critical database. The business requirements specify that users at each site must

be able to perform the following tasks:

Access and modify data on all sites with minimal latency.

Minimize data loss in the event of a server failure.

You need to provide a high-availability solution that meets the business requirements.

Which solution should you implement?

- A. Failover clustering
- B. Peer-to-Peer replication
- C. Asynchronous database mirroring without a witness server
- D. Log shipping to servers at two of the sites to provide read-only copies of data

Answer: B

NO.5 You administer a SQL Server 2008 instance.

The instance hosts a database that is used by a Web-based application. The application processes

15,000 transactions every minute.

A table in the database contains a column that is used only by the application. This column stores

sensitive data.

You need to store the sensitive data in the most secure manner possible. You also need to ensure that

you minimize the usage of memory space and processor time.

Which encryption type should you use?

- A. Symmetric key encryption
- B. Asymmetric key encryption
- C. Certificate-based encryption
- D. Transparent data encryption

Answer: A

NO.6 You administer a SQL Server 2008 instance. The instance hosts a new database application.

You plan to design the data security strategy for the application. You will use Snapshot replication to

replicate the data to another instance of SQL Server 2008.

You need to ensure that all stored data is encrypted by using the least amount of administrative effort.

What should you do?

- A. Enable encrypted connections between the instances.
- B. Enable Transparent data encryption for the MSDB database on the two instances.
- C. Enable Transparent data encryption for the Publisher, Distribution, and Subscriber databases.
- D. Enable certificate-based encryption for the Publisher, Distribution, and Subscriber databases.

Answer: C

NO.7 You administer a SQL Server 2008 instance.

You plan to deploy a new database that has the following capacity requirements:

275.GB for the database data file

50 GB for the transaction log file

The storage array has six 100-GB disk drives available for the database. The disks are attached to a

redundant array of independent disks (RAID) controller that supports RAID levels 0, 1, 5, and 10.

The write performance of the transaction log needs to be maximized. The database and transaction log

files must be protected in the event of a drive failure.

You need to design the storage system.

Which storage configuration should you use?

- A. A single RAID 5 volume
- B. A single RAID 10 volume
- C. A RAID 0 volume and a RAID 5 volume
- D. A RAID 1 volume and a RAID 5 volume

Answer: D

NO.8 You administer a SQL Server 2008 instance.

The instance runs on a computer that has the following features:

A 64-GB RAM

Four quad-core processors

Several independent physical raid volumes

You plan to implement a transactional database on the instance. The database is expected to have a high

volume of INSERT, UPDATE, and DELETE activities. The activities include creation of new tables.

You need to optimize the performance of the database by maximizing disk bandwidth and reducing the contention in the storage allocation structures.

What should you do?

- A. Create multiple data files for the database.
- B. Place database and log files on the same volume.
- C. Configure the affinity mask option appropriately.
- D. Configure the affinity I/O mask option appropriately.

Answer: A

NO.9 You administer a SQL Server 2008 instance.

You plan to design the security requirements for a new database application that will be deployed to the instance.

The new database contains a table that is created by using the following code segment:

```
CREATE TABLE EmpBonusPlan  
(  
EmployeeID INT NOT NULL IDENTITY(1,1),  
NumOptions INT NOT NULL,  
BaseSalary MONEY NOT NULL,  
BonusPlan VARBINARY(MAX) FILESTREAM
```

)

You need to ensure that the BonusPlan column is protected from unauthorized access by using the most secure method.

What should you do?

- A. Use Transparent data encryption.
- B. Use the Trustworthy option for the database.
- C. Use the Advanced Encryption Standard encryption on all columns in the database.
- D. Use the NTFS file system security and limit the access of the database files to the SQL Server 2008

Service account.

Answer: D

NO.10 You administer a SQL Server 2008 instance.

You deploy a new database named Engineering. The Engineering database manages large documents

that will be revised occasionally.

You need to design a table structure that allows fast read access. You also need to minimize storage

space requirements.

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

- A. Use NTFS file system compression on the volume.
- B. Use row-level compression on the document table.
- C. Use varbinary(MAX) data type with FILESTREAM storage.
- D. Enable row-level compression on all columns that use the vardecimal() data type.

Answer: A,C

NO.11 You administer a SQL Server 2008 instance that will host a new database application.

You plan to design the security requirements for the application. Each application user has a unique login

to the SQL Server 2008 server.

The application database contains stored procedures to execute stored procedures in the MSDB database.

The stored procedures in the MSDB database schedule SQLAgent jobs.

You need to ensure that the stored procedures in the MSDB database are executed by using the security

context of the application user.

What should you do?

- A. Add each user to the public role in the MSDB database.
- B. Add each user to the db\_dtsltduser database role in the MSDB database.
- C. Configure the new database to use the TRUSTWORTHY option, and then add each user to the MSDB database.
- D. Configure the MSDB database to use the TRUSTWORTHY option, and then add each user to the MSDB database.

Answer: C

NO.12 You administer a SQL Server 2008 infrastructure.

An instance runs on a computer that has eight quad-core processors and 128-GB RAM. Four different applications use the instance.

The instance experiences a low number of CXPACKET waits. The instance also experiences a large number of lazy writer waits.

You need to optimize the performance of the instance.

What should you do?

- A. Configure the Resource Governor.
- B. Configure the Windows System Resource Manager.
- C. Configure software non-uniform memory access (soft-NUMA).
- D. Configure an increase in the maximum degree of parallelism option.

Answer: C

NO.13 You administer a SQL Server 2008 instance.

You plan to design the security requirements for a new database application. The application uses a code

segment that contains the following components:

A method that accesses the registry on the SQL Server

A method that accesses the file system on a network file server

A class definition that uses public static fields

The code segment uses SQL CLR integration and is implemented as a single assembly.

You need to ensure that the application is successfully deployed to the instance.

What should you do?

- A. Use the SAFE code access security for the assembly.

- B. Replace all public static fields with public fields.
  - C. Replace all public static fields with public static read-only fields. Use the EXTERNAL\_ACCESS code access security for the assembly.
  - D. Replace all public static fields with public static read-only fields. Register the assembly by using the regasm.exe utility before deployment.
- Answer: C

NO.14 You administer a SQL Server 2008 instance. You plan to deploy a new database to the instance. The database will be subject to frequent inserts and updates. The database will have multiple schemas. One of the schemas will contain a large amount of read-only reference data. You need to design the physical database structure for optimal backup performance. What should you do?

- A. Create the database by using a single data file and a single log file.
- B. Create the database by using a single data file and multiple log files.
- C. Create the database by using a single log file and multiple filegroups.
- D. Create the database by using a single log file and a filegroup that has multiple data files.

Answer: C

NO.15 You administer a SQL Server 2008 instance. The instance is located on a four-processor, quad-core server. The server frequently experiences CPU pressure. The instance contains a very large mission-critical database that is used continuously. You need to ensure that online index rebuilds do not consume all available CPU cycles. Which configuration option should you use.?

- A. affinity mask
- B. affinity I/O mask
- C. max degree of parallelism
- D. optimize for ad hoc workloads

Answer: C