



## **70-450**

(PRO: Designing, Optimizing and Maintaining a Database Administrative Solution Using Microsoft SQL Server 2008)

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## Question: 1

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

## Question: 2

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

## Question: 3

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.

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Answer: C

Question: 4

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

Question: 5

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.

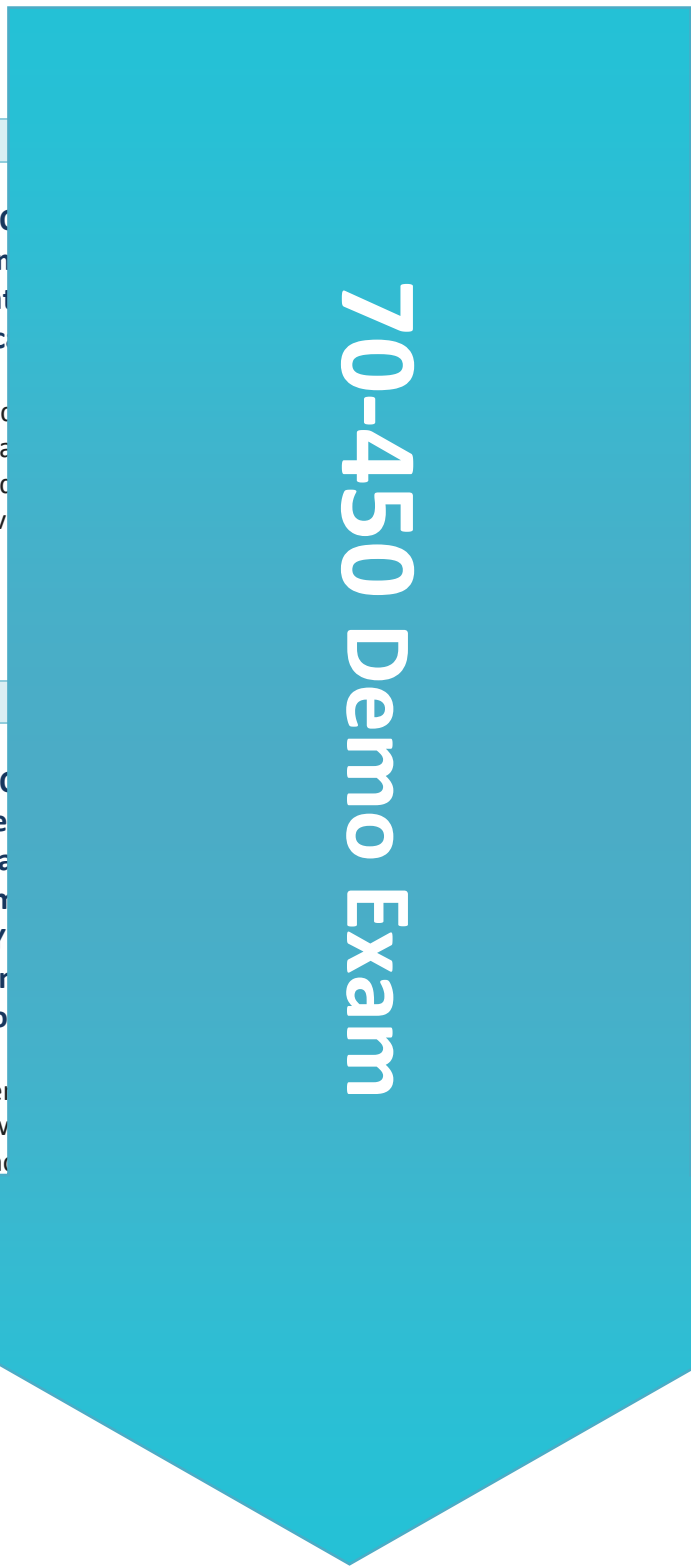
Answer: C

Question: 6

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.

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Question: 7

You administer a SQL Server instance. You plan to design an authentication mechanism for the instance. You need to ensure that the authentication mechanism is the most secure method available. Which authentication mechanism should you use?

- A. Configure the instance to use Windows authentication.
- B. Configure the instance to use Kerberos authentication.
- C. Configure the instance to use SQL Server authentication.
- D. Register a service principal name for the instance.

Answer: A

You plan to design an authentication mechanism for the instance. You need to ensure that the authentication mechanism is the most secure method available. Which authentication mechanism should you use?

- A. Configure the instance to use Windows authentication.
- B. Configure the instance to use Kerberos authentication.
- C. Configure the instance to use SQL Server authentication.
- D. Register a service principal name for the instance.

Question: 8

You administer a SQL Server instance. You plan to design an authentication mechanism for the instance. You need to ensure that the authentication mechanism is the most secure method available. Which authentication mechanism should you use?

- A. Use Transparent Network IPsec Authentication.
- B. Use the Trustworthy Authentication Extension for Specific Applications (TAEFS).
- C. Use the Advanced Authentication Extension for Specific Applications (AAES).

Answer: D

You administer a SQL Server instance. You plan to design an authentication mechanism for the instance. You need to ensure that the authentication mechanism is the most secure method available. Which authentication mechanism should you use?

database.

Answer: D

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