

Chapter 8

Clustering and Always On

Lesson 1→ Clustering SQL Server 2012

1. Which of the following operating systems can you use as the host operating system for a SQL Server 2012 multi-subnet failover cluster instance?

- A. Windows 7 Enterprise edition
- B. Windows Server 2008 Enterprise edition

Correct Answer→C. Windows Server 2008 R2 Enterprise edition

- D. Windows Vista Ultimate edition

2. Which of the following Windows PowerShell commands can you use to perform failover of a SQL Server failover cluster instance from one node to another?

Correct Answer→A. Move-ClusterGroup

- B. Move-ClusterResource
- C. Move-ClusteredSharedVolume
- D. Move-ClusterVirtualMachineRole

3. The primary node of a four-node SQL Server failover cluster instance fails due to a hardware failure. Replacement hardware will not arrive for 48 hours. Which of the following steps should you take first to remedy this situation?

Correct Answer→A. Evict the failed node.

- B. Evict the new primary node.
- C. Reinstall SQL Server on the failed node.
- D. Join the failed node to the cluster.

4. You have configured servers SYD-A and SYD-B to be members of a Windows Server failover cluster. Server SYD-A has control of the shared disk resources. You will deploy SQL Server 2012 as a failover cluster instance on these servers. Which of the following steps must you take to accomplish this goal? (Each correct answer forms part of a complete solution. Choose all that apply.)

Correct Answer→A. Run Advanced Cluster Preparation on SYD-A.

Correct Answer→B. Run Advanced Cluster Preparation on SYD-B.

- C. Run Advanced Cluster Completion on SYD-A.

Correct Answer→D. Run Advanced Cluster Completion on SYD-B.

Lesson 2→ Always On Availability Groups

1. Which tool can you use to enable AlwaysOn Availability Groups on a SQL Server 2012 instance?

- A. SQL Server Management Studio
- B. SQL Server Installation Center

Correct Answer→C. SQL Server Configuration Manager

- D. SQL Server Data Tools

2. Which Windows PowerShell cmdlet can you use to perform manual availability group failover?

Correct Answer→A. Switch-SqlAvailabilityGroup

- B. New-SqlHadrEndpoint
- C. New-SqlAvailabilityGroupListener
- D. Enable-SqlAlwaysOn

3. Which Windows PowerShell cmdlet can you use to create a mirroring endpoint on an

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instance when preparing it for the deployment of AlwaysOn Availability Groups?

- A. New-SqlAvailabilityGroupListener
- B. Switch-SqlAvailabilityGroup
- C. Enable-SqlAlwaysOn

Correct Answer→D. New-SqlHadrEndpoint

4. You will configure an AlwaysOn Availability Group to support automatic failover from the primary replica to any available secondary replica. Which of the following availability modes should you configure for the replicas in this availability group? (Each correct answer forms part of a complete solution. Choose all that apply.)

- A. Configure the primary replica to use the asynchronous-commit availability mode.

Correct Answer→B. Configure the primary replica to use the synchronous-commit availability mode.

Correct Answer→C. Configure the secondary replica to use the asynchronous-commit availability mode.

- D. Configure the secondary replica to use the synchronous-commit availability mode.
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Chapter 9

Troubleshooting SQL Server 2012

Lesson 1→Working with Performance Monitor

1. What does the System Processor Queue Length counter measure?

Correct Answer→A. The number of system requests waiting for a processor

- B. The number of SQL Server requests waiting for a processor
- C. The number of processors actively performing work
- D. The amount of time that a processor is in a busy state

2. What does the Buffer Manager performance object counter Page Life Expectancy counter measure?

- A. The total number of pages on all free files
- B. The number of requests to find a page in the buffer pool
- C. The number of physical database page reads that are issued per second

Correct Answer→D. The number of seconds a page will stay in the buffer pool without references

3. What does the Physical Disk:Avg.Disk Queue Length counter measure?

Correct Answer→A. The number of system requests, on average, that are waiting for disk access

- B. The time that the disk is busy with read/write activity
- C. The number of physical database page reads that are issued per second
- D. The number of physical database page writes that are issued per second.

Lesson 2→Working with SQL Server Profiler

1. You are troubleshooting a performance issue with a SQL Server instance. Query performance declines every Monday morning from 9 A.M. to 10 A.M. Which tools can you use to diagnose the cause of the performance problems? (Choose all that apply.)

Correct Answer→A. Extended Events Profiler

- B. Database Engine Tuning Advisor
- C. Resource Governor

Correct Answer→D. SQL Server Profiler

2. Which trace event would you use to determine when a T-SQL statement has completed?

- A. SQL:StmtCompleted
 - B. SQL:StmtStarting
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