

Microsoft

Windows Server 2008 Administrator (70-646)

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STUDY
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QUESTIONS, ANSWERS, AND
DETAILED EXPLANATIONS IN AN
EASY-TO-USE PRINTABLE FORMAT

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Chapter 1

Planning for Server Deployment

1. Your Active Directory domain consists of four servers that run Windows Server 2003 Enterprise Edition. Each server runs a separate client/server application that individually does not consume an inordinate amount of CPU cycles or network bandwidth. You want to (a) upgrade these computers to Windows Server 2008, and (b) collapse the physical server infrastructure as much as possible for ease of management and reduced energy consumption. Which of the following actions should you perform?
 - A. Deploy four servers running Windows Server 2008 Datacenter Edition using the Server Core installation option.
 - B. Deploy two servers running Windows Server 2008 Enterprise Edition. Install the Server Core server role, and associate two client/server applications with each instance of Server Core on the two server computers.
 - C. Deploy one server running Windows Server 2008 Enterprise Edition. Install the Hyper-V server role and configure each client/server application to run in a separate virtual machine.
 - D. Deploy one server running Windows Server 2008 Web Edition. Install the Hyper-V server role and configure each client/server application to run in a single virtual machine.

[Find the Answer](#) p. 93

2. You installed Microsoft Office SharePoint Server (MOSS) 2007 on a Windows Server 2008 member server in your organization's Active Directory domain. You need to provide redundancy to the SharePoint data storage services that are provided by Microsoft SQL Server 2008. Which of the following actions should you perform?
- A. Configure failover clustering.
 - B. Configure Network Load Balancing.
 - C. Configure Shadow Copy Services.
 - D. Install and configure Microsoft ISA Server.

[Find the Answer](#) p. 93

3. You plan to deploy 10 Windows Server 2008 servers and 75 Windows Vista workstations to a secure remote facility that is a part of your organization. This secure remote facility is not connected to the Internet. A low-speed WAN connection will link the headquarters with the secure remote facility. You plan to deploy operating systems in the remote facility by using Windows Deployment Services (WDS). However, you need to determine the appropriate Windows Activation model for your infrastructure. Network traffic over the WAN must be strictly limited. Which of the following actions should you perform?
- A. Use RIS instead of WDS as an operating system deployment method.
 - B. Implement a VA 1.0 volume license key infrastructure.
 - C. Implement a KMS activation infrastructure for the secure remote facility.
 - D. Implement a MAK activation infrastructure for the secure remote facility.

[Find the Answer](#) p. 93



4. You have developed a .NET 3.5-based Web application for your organization. Currently the company runs a Windows Server 2003-based Active Directory domain. You need to make an upgrade recommendation that provides (a) Web application redundancy, and (b) lowest upgrade cost. Which of the following actions should you perform? (Select two choices. Each correct answer represents a component of a single solution.)
- A. Recommend Windows Server 2008 Web Edition.
 - B. Recommend Windows Server 2008 Datacenter Edition.
 - C. Deploy an additional server and recommend failover clustering.
 - D. Deploy an additional server and recommend Network Load Balancing.

[Find the Answer](#) p. 93

5. You purchased one new 64-bit server computer that will replace two older 64-bit servers that host two 64-bit line-of-business (LOB) applications. You need to recommend an appropriate Windows Server 2008 edition and server role to support the new infrastructure. Which of the following actions should you perform? (Select two choices. Each correct answer represents part of a single solution.)
- A. Install Windows Server 2008 Web Edition on the new server.
 - B. Install Windows Server 2008 Standard Edition on the new server.
 - C. Deploy Windows System Resource Manager (WSRM) on the new server.
 - D. Deploy the Hyper-V server role on the new server.

[Find the Answer](#) p. 93



Answers: Chapter 1

1. C	Review Question p. 2	Detailed Explanation p. 104
2. A	Review Question p. 3	Detailed Explanation p. 104
3. C	Review Question p. 3	Detailed Explanation p. 105
4. A, D	Review Question p. 4	Detailed Explanation p. 105
5. B, D	Review Question p. 4	Detailed Explanation p. 106
6. D	Review Question p. 5	Detailed Explanation p. 106
7. D	Review Question p. 6	Detailed Explanation p. 107
8. A	Review Question p. 7	Detailed Explanation p. 107
9. A	Review Question p. 8	Detailed Explanation p. 108
10. C	Review Question p. 9	Detailed Explanation p. 108
11. B, D	Review Question p. 10	Detailed Explanation p. 109
12. C	Review Question p. 10	Detailed Explanation p. 109
13. D	Review Question p. 11	Detailed Explanation p. 110
14. A	Review Question p. 11	Detailed Explanation p. 110
15. C	Review Question p. 12	Detailed Explanation p. 110
16. A	Review Question p. 12	Detailed Explanation p. 111
17. D	Review Question p. 13	Detailed Explanation p. 111
18. B	Review Question p. 13	Detailed Explanation p. 112
19. C	Review Question p. 14	Detailed Explanation p. 112
20. A	Review Question p. 14	Detailed Explanation p. 113
21. C	Review Question p. 15	Detailed Explanation p. 113
22. C	Review Question p. 16	Detailed Explanation p. 114
23. A	Review Question p. 16	Detailed Explanation p. 114

Explanations: Chapter 1

1. [Review Question](#) p. 2

Answers: C

Explanation A. Incorrect. This strategy would complete the requirement of upgrading the server operating systems to Windows Server 2008; however, you are still left with four boxes. You want to use Microsoft Hyper-V virtualization to reduce the number of physical servers in your server rack.

Explanation B. Incorrect. This is a total throwaway answer. Your tip-off is the reference to Server Core as a server role. Server Core is an installation option for Windows Server 2008.

Explanation C. Correct. Provided that you have the necessary hardware to support it, Windows Server 2008 Standard, Datacenter, and Enterprise Edition support Hyper-V, a virtualization technology that saves you hardware costs and reduces energy expenditure.

Explanation D. Incorrect. Windows Server 2008 Web Edition does not support the Hyper-V server role. Moreover, you would want the client/server applications to run in separate virtual machines for stability, security, and performance reasons.

2. [Review Question](#) p. 3

Answers: A

Explanation A. Correct. Failover clustering is a high-availability technology that protects a subsystem against failure. Windows Server 2008 supports failover clustering, as does SQL Server 2008. In this case, you would be best served by clustering the SQL Server database with at least one additional database server to protect against failure.

Explanation B. Incorrect. Network Load Balancing (NLB) is a Windows Server feature that is used to equitably distribute TCP/IP service requests for Web applications. This technology would not allow SharePoint service to continue if the SQL database were to go offline. Clustering, on the other hand, would.

Explanation C. Incorrect. Volume Shadow Copy Service (VSS) is an automatic file backup strategy. This technology, although it can be configured to interact with SQL Server and SharePoint, does not provide database-level redundancy like failover clustering does.

Explanation D. Incorrect. Microsoft Internet Security and Acceleration (ISA) Server is



Microsoft's software firewall and VPN gateway. This product makes it easier to safely expose SharePoint to the Internet; it has nothing whatsoever to do with high availability as is described in this scenario.

3. [Review Question](#) p. 3

Answers: C

Explanation A. Incorrect. In point of fact, WDS is the successor to the old and nasty Remote Installation Services (RIS) from Windows Server 2003/Windows 2000 Server.

Explanation B. Incorrect. Windows Vista and Windows Server 2008 no longer use an untracked, use-as-many-times-as-you'd-like corporate volume license key anymore. Those days are gone. Welcome to Volume Activation 2.0!

Explanation C. Correct. As long as you have at least 5 Windows Server 2008 computers and/or 25 Windows Vista machines in your environment, you qualify to host your own Key Management Service (KMS) activation server.

Explanation D. Incorrect. Because the secure remote facility will contain more than 5 Windows Server 2008 computers and 25 Windows Vista computers, Microsoft requires that a KMS infrastructure be used instead.

4. [Review Question](#) p. 4

Answers: A, D

Explanation A. Correct. Windows Server 2008 Web Edition is a slightly cut-down version of Windows Server 2008 Standard Edition. You don't get Terminal Services and some other business features; however, for a much lower cost, you get full support for Web server and application server roles.

Explanation B. Incorrect. Although Datacenter Edition would more than suffice for this scenario, the monetary outlay would far exceed what is required in this scenario.

Explanation C. Incorrect. Although a cluster configuration could protect a Web application, the software and hardware costs to set up such a cluster are very prohibitive. On the other hand, NLB is included in your Windows Server 2008 license and requires no additional hardware to set up.

Explanation D. Correct. Network Load Balancing (NLB) is a server feature specifically designed to provide high availability for TCP/IP-based Web applications.



5. [Review Question](#) p. 4**Answers: B, D**

Explanation A. Incorrect. Windows Server 2008 Web Edition does not support the Hyper-V server role, which is required in this scenario. (That is, each LOB application will need to run as a virtual machine on the new server.)

Explanation B. Correct. Windows Server 2008 Standard, Datacenter, and Enterprise Editions all support the Hyper-V virtualization server role. Note that Hyper-V requires a 64-bit (x64) processor architecture.

Explanation C. Incorrect. WSRM is a server feature that enables an administrator to control the amount of processor and memory resources that a process or IIS application pool is allowed to consume on a single Windows Server 2008 computer.

Explanation D. Correct. You should deploy Hyper-V on the new server and configure each LOB application to run inside of a separate virtual machine (VM) on that host server.

6. [Review Question](#) p. 5**Answers: D**

Explanation A. Incorrect. RIS has gone the way of the dodo. In Windows Server 2008, Windows Deployment Services (WDS) has replaced the clunky and overly difficult to use RIS.

Explanation B. Incorrect. Although System Center Configuration Manager (SCCM) 2007 would make short work of deploying Windows Vista to your 400 new workstation computers, nothing is stated in the scenario to lead you to believe that you have access to this very expensive enterprise server application.

Explanation C. Incorrect. The WAIK is an optional download from Microsoft that consists of a toolset that supports automated OS deployment, but does not necessarily work independently of WDS.

Explanation D. Correct. Because WDS is bundled with the Windows Server 2008 product, this represents the most reasonable and cost-effective means for performing a mass deployment of Windows Vista to your enterprise.

