Chapter 1 Solutions

Review Questions

1. Which of the following best defines a computer used as a server?

    c. Operating system software that includes directory services and domain name services

2. Which of the following best describes a Windows client OS?

    d. Supports only 10 network connections

3. Windows Server 2008 _____ Edition supports a maximum of eight processors.

    Enterprise

4. Which of the following is true of Windows Web Server 2008?

    b. Supports only four processors

5. You have recently purchased a new computer that supports four processors, 64-bit processing, and up to 256 GB of RAM. You need to run several network applications that you expect will require at least 128 GB of RAM and possibly more. Which of the following Windows Server 2008 editions should you install on your server?

    c. Enterprise Edition

6. Each core in a multicore processor counts toward the maximum number of processors that Windows Server 2008 supports. True or False?

    False

7. You have purchased a new server that supports up to 8 GB RAM and two processor sockets. You're currently running three other servers that provide Active Directory services, file and printer sharing, and DNS. This new server will act as a departmental Web server for about 50 users. You want to keep costs to a minimum. Which of the following editions should you choose?

    a. Windows Web Server 2008

8. You're considering purchasing a new server with Windows Server 2008 installed that has the capability to run four or more virtual machines and provides fault-tolerance features, such as adding and replacing memory and CPUs without shutting down the system. Which edition of Windows Server 2008 should you ask to be installed on the server?

    d. Datacenter Edition

9. You need to support a large disk volume of 200 GB or more and limit the amount of space users' files can occupy on the volume. Which file format should you use?

    c. NTFS

10. Which of the following disk formats supports encryption? (Choose all that apply.)

    c. NTFS

11. What feature of the Windows Server 2008 file system should you enable if you want users to be able to restore deleted or previous versions of a file in a shared folder?

    c. Shadow copies

12. You're a consultant for a small business with four computer users. The company's primary reason for networking is to share the Internet connection, two printers, and some documents.

Keeping costs down is a major consideration, and users should be able to manage their own shared resources. Which networking model best meets the needs of this business?

workgroup model

13. Which networking component includes a device driver?

    d. Network interface

14. If you want to share files with other Windows computers, you should have _____ installed and enabled on your computer.

    b. File and Printer Sharing for Microsoft Networks

15. If you want to make a computer a domain controller, which of the following should you install?

    d. Active Directory

16. Which of the following server roles turns your computer into a Web server?

    c. IIS

17. Which of the following is the common framework in which most Windows Server 2008 administrative tools run?

    b. Microsoft Management Console

18. You have been asked to advise a business on how best to set up its Windows network. Eight workstations are running Windows Vista Business. The business recently acquired a new contract that requires running a network application on a server. A secure and reliable environment is critical to run this application, and security management should be centralized. There's enough budget for new hardware and software, if necessary. Which Windows networking model should you advise this business to use?

    a. A Windows domain using Active Directory

19. Which of the following is *not* a server role that can be installed in Windows Server 2008?

    b. Failover Clustering

20. Which of the following is required to install the Hyper-V role in Windows Server 2008? (Choose all that apply.)

    a. A CPU that has virtualization support

    c. A 64-bit version of Windows Server

    d. A processor that supports hardware data execution protection

21. Your manager has asked you to audit 150 Vista client computers to make sure they are up to date with patches, virus software, and firewall settings. You realize that checking all these computers manually will take an inordinate amount of time. Which new feature can you configure in Windows Server 2008 to make this job much easier?

    d. Network Access Protection

22. Your goal is to install Windows Server 2008 using as few hardware resources as possible. You plan to deploy only the DNS Server role on this new server. Your server supports a maximum of 8 GB RAM, and you might need to add failover clustering later. Which Windows Server 2008 edition should you install?

    d. Enterprise Edition 32-bit Server Core

23. The Terminal Services RemoteApp feature provides users with a desktop view of the remote computer. True or False?

    False

24. If you want to provide users with secure network transactions that verify the identity of sender and receiver with a digital certificate, which role should you consider installing?

    b. Active Directory Certificate Services

25. You have just installed a human resources application that's directory service enabled on a Windows Server 2008 server. You're running Linux primarily in your organization and don't run a Windows domain, but you want to take advantage of the benefits a directory service would provide. Which Windows Server 2008 role should you install?

    d. Active Directory Lightweight Directory Services

Case Projects

Case Project 1-1: Selecting a Windows Server 2008 Edition

In this situation, with only 25 clients and tight funds, Windows Server 2008 Standard Edition is probably the best choice. Because the server hardware won't support any hot-swap features, Enterprise Edition is likely to be a waste of money. Web Edition doesn't support Active Directory, and Active Directory will probably be needed in this environment because of the need to manage computer and user policies.

Case Project 1-2: Choosing Server Roles

At minimum, the following server roles should be installed:

- Active Directory Domain Services—To manage computer and user policies

- DNS—Required for Active Directory installation

- IIS—Used because the order entry/inventory application is a Web-based application

- File Services—To facilitate sharing files among employees

The networking model that should be used is the domain model because there are more than 10 client computers and because of the need to manage client computers and user policies.

Case Project 1-3: Performing Additional Server Configuration Tasks

The file format should be NTFS and disk quotas should be enabled on the data volume to restrict the amount of space users' files can occupy on a volume.

Case Project 1-4: Explaining Server Virtualization

Hyper-V allows one or more virtual OSs to run in Windows Server 2008. This feature gives administrators a tool that isolates applications running on one server from interfering with the operation of other applications, but only one physical server is required. Other advantages include space and power saving, easy whole-system backup, and easier testing of new applications, patches, and service packs. At this time, Hyper-V can't be installed on Cool Gadgets's existing server. Case Project 1-2 specified that a 32-bit version of Windows Server 2008 is running, and Hyper-V requires a 64-bit version. In addition, there doesn't seem to be a need for this added capability until Cool Gadgets's requirements become more complex.