

REVIEW LESSON

MTA Course: 98-365 Windows Server® Administration Fundamentals

Lesson name: Windows Server Administration Fundamentals 2.1

Topic: Identify application servers

(One 50-minute class period)

File name: WinServerFund_RL_2.1

Lesson Objective

2.1: Identify application servers. *This objective may include but is not limited to:* mail servers; database servers; collaboration servers; monitoring servers; and threat management.

Preparation Details

Prerequisite student experiences and knowledge

This MTA Certification Exam Review lesson is written for students who have learned about Windows® Server Administration fundamentals. Students who do not have the prerequisite knowledge and experiences cited in the objective will find additional learning opportunities using resources such as those listed in the Microsoft® resources and Web links at the end of this review lesson.

Instructor preparation activities

- Make copies of Student Activity WinServerFund_SA_2.1.

Resources, software, and additional files needed for this lesson

- WinServerFund_PPT_2.1
- WinServerFund_SA_2.1
- WinServerFund_SA_2.1_Key

Teaching Guide

Essential Vocabulary

application server—a server program on a computer in a distributed network that handles the business logic between users and backend business applications or databases. Application servers also can provide transaction management.

port—an application-specific or process-specific software construct serving as a communications endpoint used by Transport Layer protocols of the Internet Protocol Suite. A specific port is identified by its number, commonly known as the port number, the IP address with which it is associated, and the protocol used for communication.

Lesson Sequence

Activating prior knowledge/lesson staging (Anticipatory Set: 10 minutes)

1. Student prompt (PowerPoint® slide 3): On a sheet of paper, list 4 examples of application servers.
2. Give students a few minutes to respond, allowing them to work until they have finished.
3. As time permits, call on a few students to report to the group with their responses.

Lesson activity (40 minutes)

1. Teacher Instruction (20 minutes)
 - Use the included PowerPoint slideshow to review the different types of application servers.
 - At the end of the slideshow, ask the students to answer the Review Questions. Small-group discussions or a “think-pair-share” approach may be beneficial.
 - Show the question and give the students 1 minute to process the question and come up with answers.
 - Then give the students 2 minutes to discuss answers with a partner.
 - Finally, have each pair of students share their answers with the whole group.
 - Repeat for each additional review question.
2. Guided Practice (20 minutes)
 - Direct students to complete WinServerFund_SA_2.1, identifying the different types of Windows applications and deciding which application types are appropriate for the scenario. Have the students complete the remaining questions.
 - If time allows, you may review all or part of the worksheet, discussing student responses to the questions.

Assessment/lesson reflection (10 minutes)

1. At the bottom of the page, tell students to write down any questions they have or any topics about which they would like more assistance.
2. After class, look through the student responses and follow up with any student requiring additional help.

Microsoft resources and Web links

- **Microsoft: Microsoft Exchange Server 2010**
<http://www.microsoft.com/exchange/2010/en/us/default.aspx>
- **Microsoft: SQL Server 2008 Overview, data platform, store data**
<http://www.microsoft.com/sqlserver/2008/en/us/default.aspx>
- **E-mail ports and mail servers**
<http://www.emailaddressmanager.com/tips/mail-servers.html>
- **Microsoft: SharePoint 2010—the Business Collaboration Platform for the Enterprise and the Internet**
<http://sharepoint.microsoft.com/en-us/Pages/default.aspx>
- **Microsoft: Forefront Threat Management Gateway Overview**
<http://www.microsoft.com/forefront/threat-management-gateway/en/us/overview.aspx>

Suggested best practices

- If you have access to an environment that has any of the applications discussed in class, it's a great opportunity to show the students what a functioning Exchange or SharePoint® server would look like and how one might manage it. If resources are available, create virtual machines to demonstrate a couple of the more common application servers such as Exchange, SharePoint and SQL.
- Ask the students what applications they have been exposed to and what they like or not like about a particular application.