

REVIEW LESSON

MTA Course: 98-365 Windows Server® Administration Fundamentals

Lesson name: Windows Server Administration Fundamentals 2.3

Topic: Understand remote access

(One 50-minute class period)

File name: WinServerFund_RL_2.3

Lesson Objective

2.3: Understand remote access. *This objective may include but is not limited to:* remote assistance; remote administration tools; Remote Desktop Services; licensing; RD Gateway; VPN; application virtualization; multiple ports.

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.

Students should have successfully performed a Windows Server 2008® R2 installation.

Students should have enabled Remote Desktop for Windows Server 2008 R2 or Windows 7.

Instructor preparation activities

- Make copies of Student Activity WinServerFund_SA_2.3.

Resources, software, and additional files needed for this lesson

- WinServerFund_PPT_2.3
- WinServerFund_SA_2.3

- Students should have access to Windows Server 2008 R2 or Windows 7®
- Internet access
- Access to a valid e-mail account

Teaching Guide

Essential Vocabulary

Network Level Authentication (NLA)—an authentication method that completes user authentication before you establish a remote desktop connection and the logon screen appears. This is a more secure authentication method that can help protect the remote computer from malicious users and malicious software.

Remote Assistance—a technology that enables Windows users to help each other over the Internet. With this tool, one user, called the "Expert," can view the desktop of another user, the "Novice." With the Novice's permission, the Expert can even share control of the Novice's computer to resolve issues remotely. With Remote Assistance, a Help Desk Technician can assist users on the network, which is known as the Offer Remote Assistance feature.

Remote Desktop—used for administration to allow a user to remotely initiate a session on a system and take control. Remote Desktop is available on Windows 7 and Windows Server 2008 R2 by enabling it through Advanced System Settings.

Remote Desktop Licensing Mode—allows one of two options: RDS per Device Client Access License (CAL) or RDS per User CAL. "Per device" indicates that any user can access the host from that device. "Per user" indicates that a user can access the host from any device.

Remote Desktop Session Host—the server that hosts Windows-based programs or the full Windows desktop for Remote Desktop Services clients. Users can connect to a Remote Desktop (RD) Session Host server to run programs, to save files, and to use network resources on that server. Users can access an RD Session Host server by using Remote Desktop Connection or RemoteApp.

Lesson Sequence

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

1. Student prompt (see PowerPoint® slide 3): On a sheet of paper, list examples of why a company would use Remote Desktop Services.
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 remote access applications and options.
- 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)

- Students complete the hands-on activity WinServerFund_SA_2.3. The instructor should verify that the students each created a Remote Assistance request; e-mailed the request to another student; enabled Remote Desktop on their systems; and allowed students to remote into their partner’s system.

Assessment/lesson reflection (10 minutes)

1. Have the students summarize why they might find Remote Desktop Services beneficial to an organization.
2. After class, look through the student responses and follow up with any student requiring additional help.

Microsoft resources and Web links

- **Microsoft: Microsoft Application Virtualization**
<http://www.microsoft.com/systemcenter/appv/default.aspx>
- **Microsoft TechNet: Remote Desktop Session Host (RD Session Host)**
<http://technet.microsoft.com/en-us/library/cc742822.aspx>
- **Microsoft TechNet: Install the RD Session Host Role Service**
<http://technet.microsoft.com/en-us/library/cc742813.aspx>
- **Microsoft TechNet: Remote Desktop Services**
<http://technet.microsoft.com/en-us/windowsserver/ee236407.aspx>
- **Microsoft TechNet: Remote Desktop Services Overview**
<http://technet.microsoft.com/en-us/library/cc725560.aspx>

Suggested best practices

- It is beneficial to have a working RD Session Host server available and demonstrate the functionality. Time permitting; demonstrate how to deploy a remote application using RemoteApp.