

REVIEW LESSON

MTA Course: 98-365 Windows Server® Administration Fundamentals

Lesson name: Windows Server Administration Fundamentals 2.2

Topic: Understand Web services

(One 50-minute class period)

File name: WinServerFund_RL_2.2

Lesson Objective

2.2: Understand Web services. *This objective may include but is not limited to:* IIS; WWW and FTP; separate worker processes; adding components; sites; ports; SSL; and certificates.

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 created a Web and FTP site in IIS.

Instructor preparation activities

- Make copies of Student Activity WinServerFund_SA_2.2.
- Set up a virtual machine with the IIS role installed for demonstration purposes and DNS with zones created for two separate websites: *http://www.contoso.com* and *http://www.adatum.com* with aliases and sites created for both. The virtual machine should be able to browse to those sites and display the content of those sites that are hosted on the virtual machine.

Resources, software, and additional files needed for this lesson

- WinServerFund_PPT_2.2
- WinServerFund_SA_2.2
- Students should have access to Windows Server 2008 R2
- Students should have access to the Internet

Teaching Guide**Essential Vocabulary**

active server pages (ASP)—enables Web servers to dynamically generate Web pages and create interactive Web applications by using server-side scripting technology.

certificate—a certificate proves the sender's identity and supplies the recipient with a public key with which to decrypt the sender's encrypted messages. A certificate is sent when a message is digitally signed.

common gateway interface (CGI)—the specification that defines communication between information servers and resources on the server's host computer, such as databases.

secure socket layer (SSL)—a protocol developed by Netscape Communications Corporation for ensuring security and privacy in Internet communications. SSL supports authentication of clients or servers as well as certificate-based encryption during a communications session.

worker process—a user-mode code whose role is to process requests, such as processing requests to return a static page, invoking an ISAPI extension or filter, or running a Common Gateway Interface (CGI) handler.

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

1. Student prompt (see PowerPoint® slide 3; answers are on the PowerPoint instructor notes): On a sheet of paper, answer the following questions:
 - a. What is a website?
 - b. What is Microsoft®'s Web application called?
 - c. By default, what port does Internet Explorer® access when browsing to a website?
 - d. What Web protocol supports encryption?

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 Windows applications.
 - 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_2.2. The instructor should verify each student’s Web and ftp sites to ensure activity was completed.

Assessment/lesson reflection (10 minutes)

1. Ticket out the Door: on a sheet of paper, have each student write down up to three items that they do not clearly understand. Students hand in the sheet of paper as they leave the classroom. The instructor should review the students’ comments and address them at the start of the next meeting time.

Microsoft resources and Web links

- **Microsoft TechNet: IIS World Wide Web Publishing Service**
[http://technet.microsoft.com/en-us/library/dd349246\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/dd349246(WS.10).aspx)
- **Microsoft: The Office Microsoft IIS**
<http://www.iis.net>

Suggested best practices

- It is extremely important for the students to be able to recognize what ports are responsible for each service.
- Give examples of http versus https. Good examples for https include online shopping. Be sure to remind the students that https in the address bar does NOT guarantee encryption.