

REVIEW LESSON

MTA Course: Software Development Fundamentals

Lesson name: Software Development Fundamentals 4.3

Topic: Understand Web hosting (One 50-minute class period)

File name: SoftDevFund_RL_4.3

Lesson Objective:

4.3: Understand Web hosting. *This objective may include but is not limited to:* creating virtual directories and Web sites, deploying Web applications; understanding the role of Internet Information Services.

Preparation Details

Prerequisite student experiences and knowledge

Students should know about the World Wide Web and how computers communicate using Hypertext Transfer Protocol (HTTP). Students should also know how a browser fetches and displays a Web page. This MTA Certification Exam Review lesson is written for students who have learned about Web development. 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

None

Resources, software, and additional files needed for this lesson:

- SoftDevFund_PPT_4.3

Teaching Guide

Essential vocabulary:

HTTP—acronym for HyperText Transfer Protocol, the protocol used to carry requests from a browser to a Web server and to transport pages from Web servers back to the requesting browser. Although HTTP is almost universally used on the Web, it is not an especially secure protocol.

ISP—acronym for Internet service provider, a business that supplies Internet connectivity services to individuals, businesses, and other organizations. Some ISPs are large national or multinational corporations that offer access in many locations, while others are limited to a single city or region.

World Wide Web—the total set of interlinked hypertext documents residing on HTTP servers around the world. Documents on the World Wide Web, called *pages* or *Web pages*, are written in Hypertext Markup Language (HTML), identified by Uniform Resource Locators (URLs) that specify the particular machine and path name by which a file can be accessed, and transmitted from server to user with HTTP.

Lesson Sequence

Activating prior knowledge/lesson staging (5 minutes)

1. Show the Activator slide in the PowerPoint® presentation.
 - a. *Ask:* How would you explain Web hosting to a computer novice?
 - i. Web hosting is how a Web site becomes available to be seen by the entire world, not just on your computer. You give your website to a Web hosting company and they will provide the Internet connection to make it accessible to the world.

Lesson activity (35 minutes)

1. Review the concepts using the presentation.
 - a. Review the definitions.
 - b. Describe what a virtual directory is and its purpose.
 - c. Describe Web application deployment.
 - d. Describe Internet Information Services (IIS) and its role in Web application deployment.

* Throughout the presentation, you should spend time answering questions and clarifying concepts.

Assessment/lesson reflection (10 minutes)

1. Show the Lesson Review slide in the presentation.

| a. Write a paragraph explaining the relationship between IIS and Web application deployment.

Microsoft resources and Web links

IIS

<http://www.iis.net/>

Additional notes to the instructor:

- The MTA exam will assess students' understanding of these concepts, not their ability to perform them. For example, it is not mandatory that students have had experience creating virtual directories for a Web site or deploying an actual Web application (though it would help).