

REVIEW LESSON

MTA Course: Web Development Fundamentals
Lesson name: Web Development Fundamentals 5.4
Topic: Understand application pools
File name: WebDevFund_RL_5.4

Lesson Objective:

5.4: Understand application pools. *This objective may include but is not limited to:* purpose of application pools; effect of application pools on Web applications. *This objective does not include:* configuring or assigning application pools.

Preparation Details

Prerequisite student experiences and knowledge

This MTA Certification Exam Review lesson is written for students who have learned about Web design and Web application programming. 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 understand the concept of application pooling and its applications.

Instructor preparation activities

For this lesson, you will need a computer with Microsoft Office 2007® and Microsoft Visual Studio 2008® attached to a liquid crystal display (LCD) projector to display and review the Microsoft PowerPoint® document.

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

- WebDevFund_PPT_5.4
- WebDevFund_SA_5.4
- WebDevFund_SA_5.4_Key

- A Windows®-based PC with installed Web development software. Examples include Visual Studio 2008, or
 - Microsoft Visual Basic 2008®, Express Edition
(<http://www.microsoft.com/express/downloads/#2008-Visual-Basic>)
 - Microsoft Visual C# 2008®, Express Edition
(<http://www.microsoft.com/express/downloads/#2008-Visual-CS>)
 - Microsoft Visual Web Developer 2008, Express Edition
(<http://www.microsoft.com/express/downloads/#2008-Visual-Web-Developer>)

Teaching Guide

Essential vocabulary:

Application pool—a group of one or more Uniform Resource Locators (URLs) that are served by a worker process or set of worker processes. Any Web directory or virtual directory can be assigned to an application pool.

Lesson Sequence

Activating prior knowledge/lesson staging (10 minutes)

Warm-up Activity—“Application Pools”

1. Begin by asking students to define an application pool.
2. Provide an example how application pools are useful, such as...
 - a. Hosting Multiple Web Applications (use this link to illustrate this point)
http://msdn.microsoft.com/en-us/library/aa302436.aspx#20618429_006
(Isolating Applications with Application Pools)

Lesson activity (30 minutes)

1. Using the PowerPoint presentation WebDevFund_PPT_5.4, review the concepts for this lesson.
2. Distribute Student Activity Worksheet WebDevFund_SA_5.4.
3. Discuss the key objectives of the review assignment.

Assessment/lesson reflection (10 minutes)

1. Ask students to summarize the key points of the lesson.
2. Wrap up and provide homework/enrichment opportunities.

Microsoft Resources and Web links

Students who wish to explore this lesson topic further may visit the following links:

Video lesson on starting up an application pool:

<http://www.asp.net/learn/aspnet-4-quick-hit-videos/video-8843.aspx>

Microsoft ASP.NET:

<http://www.asp.net>

Suggested best practices:

- It may be beneficial to display code examples using the LCD projector for each of the major concepts, particularly when the vocabulary is being reviewed.