

# Configuring and Troubleshooting Internet Information Services in Windows Server 2008

Course 6427A : 3 days; Instructor-Led Preliminary Course Syllabus

**Note:** You are viewing a Preliminary Course Syllabus. This course is not yet available. Because some parts of the course are currently in development, some elements of this syllabus are subject to change.

## Introduction

In this three day instructor-led course the students will learn to install, configure, maintain, and troubleshoot an Internet Information Services 7.0 Web Server in Windows Server 2008.

## Audience

The primary audience for this course is individuals who want to become a Web Server Administrator in an enterprise environment. Also, individuals who are assuming a new role requiring skills to manage content served by an IIS 7.0 Web Server over an intranet, extranet, and internet would be interested in this course.

## At Course Completion

After completing this course, students will be able to:

- 1. Describe the IIS 7.0 modular architecture**
- 2. Describe the IIS 7.0 workloads**
- 3. Describe the three methods for installing IIS 7.0**
- 4. Install IIS 7.0 using each of the three identified methods**
- 5. Configure common features for IIS 7.0**
- 6. Validate functionality of configured features.**

## Prerequisites

Before attending this course, students must have one or more of the following:

- Course 6420 Foundational Series: Fundamentals of a Windows Server 2008 Network Infrastructure and Application Platform

Or

- A minimum of one year of experience administering and supporting a Web Server role using Windows Server 2003
- Network + certification

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**The students will be introduced to the process of installing a Web Server and configuring IIS features such as application development; health and diagnostics; HTTP features and more.**

## **Course Outline**

### **Module 1: Configuring an IIS 7.0 Web Server**

The students will be introduced to the process of installing a Web Server and configuring IIS features such as application development; health and diagnostics; HTTP features and more.

#### **Lessons**

- Introducing Internet Information Services 7.0
- Installing the Web Server Role in Windows Server 2008
- Configuring Application Development, Health, and HTTP Features
- Configuring Performance, Security, and Server component Features

#### **Lab 1: Configuring an IIS 7.0 Web Server**

- Installing IIS using Role Manager
- Installing IIS using Unattend Setup
- Installing IIS on Server Core from Command Line
- Configuring IIS and Validate Functionality

After completing this module, students will be able to:

- Describe the IIS 7.0 modular architecture
- Describe the IIS 7.0 workloads
- Describe the three methods for installing IIS 7.0
- Install IIS 7.0 using each of the three identified methods
- Configure common features for IIS 7.0
- Validate functionality of configured features.

### **Module 2: Configuring IIS 7.0 Web Sites and Application Pools**

The students will be introduced to creating and managing Web sites and application pools.

#### **Lessons**

- Introducing Web Sites and Application Pools
- Creating a Web Site
- Creating an Application Pool
- Maintaining an Application Pool

#### **Lab 1: Configuring IIS 7.0 Web Sites and Application Pools**

- Configuring Authentication Types
- Creating a Web Site and Web Application
- Creating an Application Pool
- Configuring an Existing Application Pool

After completing this module, students will be able to:

- Describe how the application pool is used.
- Describe authentication types used in IIS 7.0.
- Configure the authentication types for Web sites and application pools.

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- Create a Web site and a corresponding virtual directory.
- Create a new application pool.
- Configure an existing application pool.

### **Module 3: Configuring IIS 7.0 Application Settings**

The students will be introduced configuring application settings using ASP.NET.

#### **Lessons**

- Configuring Application Settings
- Configuring ASP.NET Security

#### **Lab 1: Configuring IIS 7.0 Application Settings**

- Configuring ASP.NET
- Configuring ASP.NET Application Development Settings
- Configuring a Web Server to Host Multiple Web Applications with Separate Application Pools
- Configuring ASP.NET Security

After completing this module, students will be able to:

- Describe ASP.NET application development settings.
- Configure ASP.NET.
- Configure ASP.NET Web application development settings.
- Configure a Web Server to host multiple Web applications with separate application pools using ASP.NET.
- Configure ASP.NET security.

### **Module 4: Configuring IIS 7.0 Modules**

The students will be introduced to configuring IIS modules.

#### **Lessons**

- Configuring Native Modules
- Configuring Managed Modules

#### **Lab 1: Configuring IIS 7.0 Modules**

- Configuring and Editing Native Modules
- Configuring and Edit Managed Modules

After completing this module, students will be able to:

- Configure native modules.
- Configure managed modules.
- Edit managed and native modules.

## **Module 5: Securing the IIS 7.0 Web Server and Web Sites**

The students will be introduced to configuring a secure Web Server and Web sites and to using logging as a tool for monitoring security.

### **Lessons**

- Configuring Secure Web Sites and Servers
- Configure Other Aspects of Web Server Security
- Configuring Logging for IIS 7.0

### **Lab 1: Securing IIS 7.0 Web Server and Web Sites**

- Configuring a Secure Web server
- Configuring Authorization, Authentication and Access
- Configuring Logging

After completing this module, students will be able to:

- Configure a secure Web Server.
- Configure authorization for IIS Web Server.
- Configure authentication for IIS Web Server.
- Configure access for IIS Web Server.
- Configure a secure Web site.
- Configure logging for IIS 7.0.

## **Module 6: Configuring Delegation and Remote Administration**

The students will be introduced to assigning rights to Web site users and configuring users to serve as remote administrators of a server and its corresponding Web sites.

### **Lessons**

- Configuring Remote Administration
- Configuring Delegated Administration
- Configuring Feature Delegation

### **Lab 1: Configuring Delegation and Remote Administration**

- Configuring Remote Administration
- Configuring Delegated Administration
- Configuring Feature Delegation

After completing this module, students will be able to:

- Describe remote administration service.
- Configure remote administration.
- Describe the new distributed, configuration system, applicationHost.config.
- Describe how configuration files are distributed down to the application level Web.config for IIS settings.
- Configure delegated administrative rights to a Web site.
- Configure feature delegation for a specific Web site.

## **Module 7: Using Command-line and Scripting for IIS 7.0 Administration**

The students will learn basic scripting methods for completing IIS 7.0 administrative tasks needed to maintain Web sites and Web servers.

### **Lessons**

- Tools for Running Administrative Tasks in IIS
- Executing Scripts for Administrative Tasks
- Managing IIS Tasks

### **Lab 1: Using Command-line and Scripting for IIS 7.0 Administration**

- Managing IIS Web Sites with PowerShell
- Executing a Script using WAP
- Automating IIS Administration using Scripts
- Navigating IIS tasks using WMI and Appcmd

After completing this module, students will be able to:

- Maintain Web servers with command line tools
- Identify when and how to run scripts using PowerShell.
- Identify when and how to run scripts using the Microsoft Web Administration Provider.
- Identify when and how to run scripts using command-line.
- Execute an IIS script using PowerShell.
- Execute an IIS script using Microsoft Web Administration Provider.
- Execute an IIS script using command-line.
- Automate IIS administration tasks using scripts.
- Navigate IIS tasks using WMI Provider and appcmd.exe.

## **Module 8: Tuning IIS 7.0 for Improved Performance**

The students will be introduced to techniques for improving Web Server performance.

### **Lessons**

- Implementing Best Practices for Improving IIS Performance
- Configuring Options to Improve IIS Performance
- Managing Application Pools to Improve IIS Performance

### **Lab 1: Tuning IIS 7.0 for Performance**

- Configuring IIS Performance Options
- Managing Application Pools to Improve Performance
- Deploying Applications

After completing this module, students will be able to:

- Describe best practices for improving performance.
- Configure options to improve IIS performance.
- Manage application pools to improve IIS performance.

## **Module 9: Ensuring Web Site Availability with Web Farms**

The students will learn to ensure Web site availability in a Web farm topology.

### **Lessons**

- Backing Up and Restoring Web Sites
- Working with Shared Configurations
- Configuring Network Load Balancing for IIS

### **Lab 1: Ensuring Web Site Availability with Web Farms**

- Backing Up an IIS Web Site
- Restoring an IIS Web site
- Enabling Shared Configurations
- Configuring Network Load Balancing

After completing this module, students will be able to:

- Back up an IIS 7.0 Web site.
- Restore an IIS 7.0 Web site.
- Enable shared configurations.
- Ensure Web site availability using Network Load Balancing.

## **Module 10: Troubleshooting IIS 7.0 Web Servers**

The students will learn to use audit logs to troubleshoot common Web Server related authentication, authorization, communication, and configuration error messages.

### **Lessons**

- Using IIS 7.0 Logging for Troubleshooting
- Troubleshooting Authentication
- Troubleshooting Authorization
- Troubleshooting Communication
- Troubleshooting Configuration

### **Lab 1: Troubleshooting IIS 7.0 Web Servers**

- Troubleshooting Authentication
- Troubleshooting Authorization Types
- Troubleshooting Communication
- Troubleshooting Configuration

After completing this module, students will be able to:

- Audit logs to troubleshoot IIS.
- Troubleshoot authentication based on common error messages.
- Troubleshoot authorization types for IIS 7.0.
- Troubleshoot communication when managing a Web Server.
- Troubleshoot configuration based on common error messages.