

Course Outline

6427- Configuring and Troubleshooting Internet Information Services in Windows Server 2008



Duration: 3 day (18 hours)

Target 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.

Prerequisites:

Before attending this course, students must have:

- 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

Topics Covered:

- Module 1: Configuring an IIS 7.0 Web Server
 - 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
 - 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.
- 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
 - 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
 - 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
 - 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

- 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

- 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
 - 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
 - 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
 - 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.