

Internet Information Services 7.5 for Windows Server® 2008: Hands-On - 4 Days

Course 966 Overview

- You Will Learn How To**
- Install and configure Internet Information Services 7.5 (IIS 7.5) on Windows Server 2008
 - Manage the modular architecture of IIS 7.5 to customise your server installation
 - Efficiently administer sites with scripted tasks and delegation
 - Secure content by enabling authorisation and encrypted data transfer
 - Implement a hosting solution supporting ASP.NET, PHP and other technologies
 - Optimise a resilient, high-performance web server

Course Benefits Microsoft IIS 7.5 provides a flexible, extensible platform that enables developers to implement, deploy and manage web applications with greater control. In this course, you gain practical experience with IIS 7.5 and Windows Server 2008. You build and administer a robust web server in order to implement powerful and secure web solutions.

Who Should Attend Web developers, administrators and anyone interested in implementing secure enterprise web solutions with IIS 7.5 for Windows Server 2008. Familiarity with Windows and the Internet is assumed. Web development experience is helpful but not required.

Hands-On Training Hands-on experience implementing enterprise websites with Windows Server 2008 and IIS 7.5 is provided throughout the course. Exercises include:

- Installing and configuring IIS 7.5
- Scripting administrative tasks
- Enabling and deploying ASP.NET
- Securing server content
- Publishing solutions with WebDAV and FTP
- Constructing multiple virtual servers
- Monitoring and optimising IIS 7.5
- Testing failover with NLB clusters

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Course 966 Outline

IIS 7.5: A Powerful Web Application Platform

- Integration with ASP.NET framework
- Revealing the fully extensible modular architecture
- Benefiting from enhanced performance and reliability

Preparing for IIS 7.5 Installation

Overview of web architecture

- Communicating between browsers and servers
- Building blocks of Internet technologies

Installing the web server

- Verifying minimum requirements
- Establishing installation best practices
- Mirroring the production environment for developers

Configuring the Extensible Modules

Analysing the default installation

- Identifying standard modules
- Modifying initial configuration settings
- Reducing the attack surface

Extending functionality with additional modules

- Determining application requirements
- Enabling selected modules for application support
- Adding new features with custom modules

Building a Reliable Website

Automatic sandboxing with application pools

- Managing application pools
- Isolating applications for improved stability and performance

Maintaining application availability

- Configuring rapid fail detection
- Monitoring process recycling and program health
- Detecting errors with Failed Request Event Tracing

Streamlining Administrative Tasks

Configuring application settings

- Automating tasks with scripting and AppCmd
- Replicating your system configuration
- Xcopy deployment of site settings and content
- Gaining more control with Administration tools

Delegating administrative responsibilities

- Assigning feature control to site owners
- Empowering the developer to manage the virtual server
- Tracking configuration changes with Configuration Tracing

Developing Applications with IIS 7.5

Maximising ASP.NET integration

- Analysing integrated and classic pipeline modes
- Building ASP.NET web pages
- Configuring support for classic ASP

Supporting alternative technologies

- Enabling popular application frameworks with FastCGI
- Creating a PHP solution

Securing Web Applications

Providing secure user authentication

- Setting up users and groups
- Selecting authentication modules
- Implementing restricted access through the Internet Services Manager (ISM)

Encrypting communication

- Requesting and installing a server certificate
- Enabling SSL/TLS for secure data communications
- Verifying server authenticity with certificates

Expanding Hosting Capabilities

Publishing web content

- Uploading data with Secure FTP
- Managing file structures with WebDAV
- Indexing and searching content

Creating multiple virtual servers

- Hosting a multitude of sites and subsites
- Protecting and isolating competing sites
- Resolving sites with DNS and host headers

Integrating SharePoint technologies

- Team collaboration and document management capabilities
- Configuring SharePoint to coexist with other websites

Deploying a Scalable Web Server

Tuning and optimising performance

- Troubleshooting performance counters
- Analysing web server log files

Implementing a robust Server Farm

- Configuring web gardens and farms
- Achieving fault-tolerance and scalability
- Building a Network Load Balancing (NLB) cluster