

# Upgrading to Windows Server 2008

This 5-day workshop provides participants with the knowledge and skills to work with Network Infrastructure and Active Directory technologies in Windows Server 2008. This workshop is intended for those who already have experience with Network Infrastructure and Active Directory technologies in Windows Server 2000 or Windows Server 2003 to upgrade their skills to Windows Server 2008.

Through a series of comprehensive labs and exercises participants will gain experience installing, deploying, configuring, managing and troubleshooting with Windows 2008 infrastructure.

## Who Should Attend

This workshop is intended for IT Professionals experienced on the technologies included in Windows Server 2000 or Windows Server 2003 and interested in the new features and improved security with Windows Server 2008.

### Workshop Objectives:

- ▶ Install and configure Windows Server 2008.
- ▶ Add and configure Windows Server Core roles.
- ▶ Explain the new backup infrastructure, including Volume Shadow Copy Service.
- ▶ Identify new and improved networking features with Windows Server 2008.
- ▶ Configure Hyper-V virtual machines.
- ▶ Identify considerations when upgrading from a Windows Server 2003 to a Windows Server 2008 Active Directory infrastructure.
- ▶ Install and configure Active Directory Federation Services, Active Directory Lightweight Directory Services, and Active Directory Rights Management Services.
- ▶ Use Read-Only Domain Controllers.
- ▶ Identify new features in AD DS auditing.
- ▶ Implement AD DS auditing.
- ▶ Configure Windows Server 2008 Failover Clustering.
- ▶ Configure Windows Server 2008 Network Load Balancing.

# Installing and Managing Microsoft Exchange Server 2007

At the end of this 3-day workshop participants who are new to Microsoft Exchange Server will learn how to configure and manage a messaging environment in accordance with technical requirements. Participants will learn how to install Microsoft Exchange Server 2007 and manage routing, client access, and the backup and restore of databases. They will also learn how to manage addressing and recipient objects such as mailboxes, distribution groups, and contacts.

## Who Should Attend

This workshop is designed for IT professionals, help desk professionals, and system administrators who want to learn about Exchange Server 2007 help desk, or system administration. No experience with Exchange Server is necessary.

### Workshop Objectives:

- ▶ Describe how Exchange Server 2007 and Active Directory work together.
- ▶ Install Exchange Server 2007.
- ▶ Configure Mailbox Server roles.
- ▶ Manage recipient objects.
- ▶ Manage e-mail and address lists.
- ▶ Manage client access.
- ▶ Manage Messaging Transport.
- ▶ Manage availability, backup and recovery.
- ▶ Maintain the message system.

# Microsoft Language Integrated Query (LINQ)

This 2-day workshop will walk developers through the process of learning Microsoft Language Integrated Query (LINQ). Participants will learn how to utilize Visual Studio 2008 to query data using LINQ in various types of applications. Participants will also learn where best to apply LINQ when designing applications and data access. We will use LINQ to query data stored as XML and data stored in a Microsoft SQL Server database.

## Who Should Attend

This workshop is designed for application developers who wish to use LINQ to provide a consistent means of querying data from various types of data sources. Application developers will benefit from the knowledge presented in this workshop as well as system architects who should be aware of technological choices when designing applications.

### Workshop Objectives:

- ▶ Determine where best to integrate LINQ when designing and architecting an application.
- ▶ Query relational data and data stored as XML using LINQ.
- ▶ Construct LINQ queries.
- ▶ Understand lambda expressions.
- ▶ Learn about how LINQ and the ADO.NET Entity Framework can be used to provide a consistent and Object-Oriented programming model for data access.
- ▶ Create an object model based on an SQL Server database, and then query the database using LINQ to SQL.
- ▶ Modify data and use stored procedures with LINQ to SQL.
- ▶ Learn how to query XML and relational database data using LINQ, and how to integrate LINQ into a real world application to optimize data access.

# Microsoft Windows Presentation Foundation (WPF) for Developers

This 3-day workshop walks developers through the process of learning Microsoft Windows Presentation Foundation (WPF). The workshop covers the essentials of WPF, providing an orientation to this technology and a firm foundation for creating applications.

WPF is a complex technology that can have a steep learning curve. The workshop approaches the subject in a practical manner, introducing the participant to the fundamentals of creating Windows applications using the features of WPF. It includes coverage of both traditional concepts such as controls and new concepts such as XAML, flexible layout, and the loosely-coupled command architecture of WPF. The workshop is heavily hands-on with many example programs and lab exercises.

## Who Should Attend

This workshop is designed for application developers that wish to quickly become proficient at developing applications using WPF. The workshop illustrates and explains how to create and manage media, graphics, and animations. It also illustrates WPF controls and styles and explains resources, data binding, and document types.

Developers who wish to create applications using WPF should attend as well as development team managers. Designers who will be working with development teams that utilize WPF will also benefit from this workshop.

## Workshop Objectives:

- ▶ Gain an understanding of the philosophy and architecture of WPF.
- ▶ Create Windows applications using the classes provided by WPF.
- ▶ Understand the principles of XAML and create applications using a combination of code and XAML.
- ▶ Use the layout features of WPF to create flexible and attractive user interfaces.
- ▶ Implement event- and command-driven applications with windows, menus, dialogs, toolbars and other common user interface features.
- ▶ Learn about the controls available in WPF and how to customize and bind them to data.
- ▶ Build various types of documents that can be created using WPF.
- ▶ Experiment with graphics, media, and animation in WPF.
- ▶ Make WPF applications more secure and portable by using resource files.

# IIS for Windows Server 2008

Windows Server 2008, with Internet Information Services 7.0 (IIS 7.0), provides a security-enhanced, easy-to-manage platform for developing and reliably hosting Web applications and services. More than just a Web server, IIS 7.0 is a major enhancement to the Windows Web platform and plays a central role in unifying Microsoft Web platform technologies, ASP.NET, Windows Communication Foundation Web services, and Windows SharePoint Services.

The Windows Server 2008 Web and Applications platform helps to enable more efficient deployment and management, greater performance, higher security, and more customizable Web applications and services.

In this 4-day hands-on workshop we will explore the features of Windows Server 2008, and provide methods for capitalizing on these features to provide a tighter more secure system. We will also address the implementation of IIS, Microsoft's web service designed to run on Windows Server, and how to better secure the system.

## Who Should Attend

This workshop is designed for Network Managers, Web developers, administrators and anyone interested in implementing secure enterprise Web solutions with IIS 7 for Windows Server 2008. Familiarity with Windows and the Internet is assumed. Web development experience is helpful but not required.

## Prerequisites

Participants should have a good understanding of networking basics.

## Workshop Objectives:

- ▶ Install and configure Internet Information Services 7 (IIS 7) on Windows Server 2008.
- ▶ Manage the modular architecture of IIS 7 to customize your server installation.
- ▶ Efficiently administer sites with scripted tasks and delegation.
- ▶ Secure content by enabling authorization and encrypted data transfer.
- ▶ Implement a hosting solution supporting ASP.NET, PHP, and other technologies.
- ▶ Optimize a resilient, high-performance Web server.