

## Deploying Windows Server 2008 (MS6418)

**Duration: 3 days**

### Description

This 3-day, instructor-led course provides students with an understanding of migrating and deploying Windows Server 2008, including installation, configuration, and upgrading. Special emphasis is given to upgrading common server configurations and using the Windows Server Deployment Solution Accelerator.

### Audience

This course is intended for IT Professionals who are experienced with Windows 2000 Server and/or Windows Server 2003, who hold an MCSE or MCSA certification, or have equivalent knowledge.

### Prerequisites

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

- On-the-job experience in planning, implementing, managing, or supporting Windows Server 2000 or Windows Server 2003, including Active Directory and Network Infrastructure.
- Working knowledge of networking, for example, TCP/IP and Domain Name System (DNS).
- Experience with a Microsoft Windows Server 2003 Active Directory and Network Infrastructure.
- Experience with implementing security for a Microsoft Windows Server 2003 Network.
- Experience installing, configuring, and administering Microsoft Windows Server 2003, Windows XP, or Windows Vista.

### Topics

#### MODULE 1: WINDOWS SERVER 2008 INSTALLATION & CONFIGURATION

This module focuses on installation options and requirements for Windows Server 2008, including deploying Windows Server Core. This module also covers using KMS and MAK to implement a volume license strategy.

#### Lessons

- Improvements in setup from Windows 2003 to Windows Server 2008 and Windows 2008 installation requirements

- Windows Server 2008 Server Core installation
- Implement a volume license strategy using KMS and MAK

#### Lab 1: Install Windows Server 2008

- Install Windows Server 2008
- Install Windows Server Core 2008

#### MODULE 2: WINDOWS SERVER CORE 2008 CONFIGURATION

This module focuses on Windows Server Core 2008 configuration. Basic server configuration including setting the

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Administrator password and server TCP/IP configuration are covered in this module.

### Lessons

- Basic Server Core command-line configuration tasks
- Configuring the roles available on Server Core

### Lab 1: Configure Windows Server Core 2008

- Perform command-line configuration tasks
- Configure Server Core roles

### MODULE 3: WINDOWS SERVER 2008 UNATTENDED INSTALLATION

This module describes using Unattend files to install Windows Server 2008. This module also covers creating a network deployment infrastructure for unattended installation, and unattended domain controller installation.

### Lessons

- Unattended 2008 Install
- Unattended deployment infrastructure
- Unattended domain controller installation

### Lab 1: Deploying Windows Server 2008 Using an Unattend File

### Lab 2: Install Active Directory on Server Core Using an Unattend file

### Lab 3: Deploy an RODC in a Branch Office Using an Unattend File

- Deploy an RODC in a branch office using an Unattend File
- Configuring BitLocker on a branch office server

### MODULE 4: USING WINDOWS DEPLOYMENT SERVICES

This module focuses on using the new WIM image format and Windows Deployment Services to create and deploy custom system images.

### Lessons

- Working with the WIM format
- Windows Deployment Services

### Lab 1: Working with Windows Deployment Services

- Configure WDS
- Create images with WDS
- Associate a language pack with an image
- Deploy an image with WDS
- Using Unattend file with WDS to deploy images
- Custom computer naming

### MODULE 5: WINDOWS SERVER DEPLOYMENT (WSD) SOLUTION ACCELERATOR

This module introduces the WSD Solution Accelerator as a tool for low-touch operating system deployment. This module also covers creating custom system images for common server configurations.

### Lessons

- Introduction to WSD Solution Accelerator
- Creating Custom Windows Server 2008 builds
- Guidance for Zero-Touch deployment using WSD

### Lab 1: Working with WSD

- WSD Overview
- Configuring WSD for deployment
- Creating and customizing a Windows Server 2008 build
- Creating and sharing deploy points

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- Modifying the CustomSettings.ini file
- Use the Deployment Workbench to build and capture the reference computer
- Deploying Windows Server 2008 using WSD 2007 (includes procedures for custom computer naming)

### MODULE 6: UPGRADING AND MIGRATING ACTIVE DIRECTORY

This module provides prescriptive guidance for upgrading and migrating active directory from Windows Server 2003 to Windows Server 2008. This module also covers upgrading specific Active Directory-related services including DNS, Certificate Services, IPSec configuration, and group policy objects (GPO). This module provides best-practices for Active Directory upgrades.

#### Lessons

- Windows Server 2008 upgrade overview
- Upgrading Windows Server 2003 domain controllers to Windows Server 2008 Domain Controllers
- Active Directory upgrade best practices

*Lab 1: Upgrading Windows Server 2003 Domain Controllers to Windows Server 2008 Domain Controllers*

*Lab 2: Using WSD to deploy an RODC to a branch office*

### MODULE 7: UPGRADING FILE AND PRINT SERVERS

This module provides prescriptive guidance for upgrading and migrating file and print servers from Windows Server 2003 to Windows Server 2008. This module also

covers upgrading specific file and print-related services including DFS-R, scheduled backup jobs, and clustered servers. This module provides best-practices for file and print server upgrades.

#### Lessons

- Upgrading file and print servers
- Best practices for upgrading a Windows Server 2003 file and print server to Windows Server 2008
- Upgrade a Windows Server 2003 print server to Windows Server 2008

*Lab 1: Upgrading a Windows Server 2003 File and Print Server to Windows Server 2008*

### MODULE 8: UPGRADING APPLICATION AND WEB SERVERS

This module provides prescriptive guidance for upgrading and migrating application and Web servers from Windows Server 2003 to Windows Server 2008. The module covers upgrading specific application and Web-related services including WebDAV, .NET frameworks and applications, Terminal Server, Windows SharePoint Services, application migration and migration for Server Core. This module provides best-practices for application and Web server upgrades.

#### Lessons

- Upgrading application and Web servers
- Best practices for upgrading a Windows Server 2003 application and Web server to Windows Server 2008

*Lab 1: Upgrading a Windows Server 2003 Web Server to Windows Server 2008 and IIS 7.0*

*Lab 2: Upgrading a Windows Server 2003 Terminal Server to Windows Server 2008*

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### **MODULE 9: UPGRADING BRANCH OFFICE SERVERS**

This module provides prescriptive guidance for upgrading and migrating branch office servers from Windows Server 2003 to Windows Server 2008. This module also covers implementing common branch office roles including RODC and BitLocker. This module provides best-practices for branch office server upgrades.

#### *Lessons*

- Migrating or upgrading a Windows Server 2003 branch office server to Windows Server 2008
- Low-touch branch office server deployment

*Lab 1: Upgrading a Windows Server 2003 Branch Office Server to Windows Server 2008*

### **MODULE 10: MIGRATING WORKLOADS TO MICROSOFT VIRTUAL MACHINES**

This module provides guidance for migrating existing workloads to a virtual machine environment using either Microsoft Virtual Server 2005 R2 SP1 or the Windows Server virtualization role of Windows Server 2008.

#### *Lessons*

- Microsoft Server Virtualization
- Migrating Workloads to Microsoft Virtual Machines

*Lab 1: Migrating Workloads to Microsoft Virtual Server Using VSMT*

- Migrate a Windows NT 4.0 server to a virtual machine