

Deploying Windows Server 2008 (Beta 3)

Course 6418A : 3 days; Instructor-Led

Introduction

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.

At Course Completion

After completing this course, students will be able to:

- Install Windows Server 2008.
- Perform initial configuration tasks for Windows Server 2008.
- Conduct an unattended install of Windows Server 2008.
- Configure Windows Server Core 2008.
- Use Windows Deployment Services to deploy Windows Server 2008.
- Utilize Windows Server Deployment.
- Upgrade to Windows Server 2008 from Windows Server 2003.
- Upgrade Active Directory to Windows Server 2008.
- Upgrade Windows Server 2003 File and Print servers to Windows Server 2008.
- Upgrade Windows Server 2003 Application and Web servers to Windows Server 2008.
- Upgrade Windows Server 2003 Branch Office servers to Windows Server 2008.
- Implement a Volume Licensing Strategy using KMS and MAK.

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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.

Course Outline

This course explains changes in functionality to Windows Server 2008. Topics include:

- Improvements in setup from Windows Server 2003 to Windows Server 2008 and Windows Server 2008 installation Requirements
- Windows Server 2008 Server Core installation
- Implement a volume license strategy using Key Management Service (KMS) and Multiple Activation Key (MAK)
- Basic Server Core command-line configuration tasks
- Configuring the roles available on Server Core
- Unattended Windows Server 2008 installation
- Unattended deployment infrastructure
- Unattended domain controller installation
- Working with the Windows Image (WIM) format
- Windows Deployment Services
- Introduction to Windows Server Deployment (WSD) Solution Accelerator
- Creating custom Windows Server 2008 builds
- Guidance for zero-touch deployment using WSD
- Windows Server 2008 upgrade overview
- Upgrading Windows Server 2003 Domain Controllers to Windows Server 2008 Domain Controllers
- Active Directory upgrade best practices
- Upgrading file and print Servers
- Best practices for upgrading a Windows Server 2003 file and print Server to Windows Server 2008
- Upgrading application and Web Servers
- Best practices for upgrading a Windows Server 2003 application and Web Server to Windows Server 2008
- Migrating or upgrading a Windows Server 2003 branch office server to Windows Server 2008
- Low-touch branch office server deployment

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Course Outline

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

After completing this module, students will be able to:

- Install Windows Server 2008
- Install Windows Server Core 2008
- List improvements in Windows Server 2008 setup
- Plan a volume license strategy

Module 2: Windows Server Core 2008 Configuration

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

After completing this module, students will be able to:

- List commands used to configure Server Core
- Configure Server Core roles
- Deploy common Server Core configurations

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

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Lab 1: Deploying Windows Server 2008 Using an Unattend File

- Deploying Windows Server 2008 using an Unattend file

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

- 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

After completing this module, students will be able to:

- Configure Unattend.xml files for Windows Server 2008 unattended installation.
- Configure an RODC using Unattend files

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

After completing this module, students will be able to:

- Create system images using the WIM format
- Configure WDS
- Create custom system images using WDS

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
- 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)

After completing this module, students will be able to:

- Create custom system images using WSD
- Use WSD to deploy Windows Server 2008

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

- Upgrading Windows Server 2003 domain controllers to Windows Server 2008 domain controllers

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

- Using WSD to deploy an RODC to a branch office

After completing this module, students will be able to:

- List best practices for an Active Directory upgrade
- Upgrade a Windows Server 2003 domain controller to Windows Server 2008
- Upgrade a Windows Server 2003 Active Directory forest
- Use 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

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

- Upgrading a Windows Server 2003 File and Print Server to Windows Server 2008

After completing this module, students will be able to:

- Upgrade a Windows Server 2003 print server to Windows Server 2008
- Upgrade a Windows Server 2003 file server to Windows Server 2008
- List best practices for upgrading a Windows Server 2003 file and print server

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. This module also 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

- 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

- Upgrading a Windows Server 2003 terminal server to Windows Server 2008

After completing this module, students will be able to:

- Upgrade a Windows Server 2003 application and Web server to Windows Server 2008
- List best practices for upgrading a Windows Server 2003 application and Web server

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

- Upgrading a Windows Server 2003 branch office server to Windows Server 2008

After completing this module, students will be able to:

- Upgrade branch office servers to Windows Server 2008
- List best practices for upgrading a Windows Server 2003 branch office server

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

After completing this module, students will be able to:

- Describe Microsoft server virtualization solutions
- Migrate workloads to Microsoft virtual machines