

Microsoft 6417

Updating your Application Platform Technology Skills to Windows Server 2008

Class Length: 3 Days

Introduction

This 3 day instructor-led course provides students with an understanding of Applications Platform technology in Windows Server 2008. This course is intended to allow individuals who already have experience with Applications Platform technologies to upgrade their skills for Windows Server 2008. This course is based on an interim build of Windows Server 2008.

Audience

This course is intended for IT Professionals experienced on the technologies included in Windows Server 2000 and Windows Server 2003, and who hold an MCSE or MCSA certification and/or equivalent knowledge.

At Course Completion

After completing this course, students will be able to:

- Configure and use Windows Server as an application server with new Server Roles.
- Use new features in IIS 7.0 Application Server, including the new modular configuration system.
- Manage Web Applications with IIS 7.0.
- Troubleshoot IIS 7.0-based Web servers with automatic failed request tracing and other included features and tools.
- Plan for Windows SharePoint Services 3.0 implementation in a variety of network environments.
- Configure and manage Windows SharePoint Services 3.0 from initial setup through troubleshooting and day-to-day operation.
- Use new features in Terminal Services and describe Terminal Services Licensing.
- Use and manage Terminal Services remote programs and gateways, including troubleshooting and performance optimization.

Prerequisites

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

- On-the-job experience in planning, implementing, managing, or supporting Microsoft Windows Server 2000 or 2003, including Active Directory and Network Infrastructure
- Working knowledge of networking, for example, TCP/IP and Domain Name System (DNS).
- Designed a Microsoft Windows Server 2003 Active Directory and Network Infrastructure
- Designed Security for a Microsoft Windows Server 2003 Network
- Installed, Configured, and Administered Microsoft Windows 2000, Windows XP Professional, or Microsoft Vista.

Course Outline

Module 1: Server Roles and Initial Configuration Tasks

This module introduces Application Server Roles, describing Application Server features in Windows Server and demonstrating initial configuration and Unix interoperability.

Lessons

- Application Server Roles
- Application Server Features
- Windows Server as an Application Server

Lab 1: Server Roles and Configuration Tasks

- Review Default State
- Initial Configuration Tasks
- Unix Interoperability

After completing this module, students will be able to:

- Configure Windows Server as an Application Server.
- Define and use Application Server Roles.
- Recognize and implement Unix interoperability features.

Module 2: Overview of IIS 7.0 Application Server

This module introduces IIS 7.0 modular architecture, in which more than 40 features can be independently installed. It also demonstrates new scripting interface features and distributed configuration files.

Lessons

- Review of IIS 6.0
- Key Improvements in IIS 7.0
- IIS 7.0 Configuration System

Lab 1: Introducing IIS 7.0

- Adding the Web Server Role and Additional Services
- Reviewing the IIS 7.0 Administration Interface
- Add an ASP.NET Application

After completing this module, students will be able to:

- Identify new features in IIS 7.0.
- Navigate the IIS 7.0 user interface.
- Explain the new IIS 7.0 configuration system.

Module 3: Managing Web Applications with IIS 7.0

This module covers several aspects of server management in IIS 7.0. IIS can be configured using the IIS Manager graphical user interface or using several configuration files. It also explores the appcmd.exe command line utility as it is used for server administration.

Lessons

- Managing IIS 7.0
- Using Hierarchical Configuration Settings
- Delegating Configuration to Non-Administrator Users

Lab 1: Managing Web Applications with IIS 7.0

- Using IIS 7.0 Configuration Files to Control Delegation
- Extending the User Interface with Custom Features
- Controlling Delegation Using Locking
- Configuring IIS 7.0 using the Managed API
- Using AppCMD

After completing this module, students will be able to:

- Explain management approaches for IIS 7.0.
- Use appcmd.exe to perform basic administration tasks.
- List the components of IIS configuration files.
- Locate IIS 7.0 configuration files.
- Grant non-administrative users access to IIS 7.0 configuration settings.

Module 4: Troubleshooting Web Servers

This module describes and demonstrates IIS 7.0 features for troubleshooting, including Runtime Control and Status API, Automatic Failed Request Tracing, and Trace Events.

Lessons

- Troubleshooting IIS 7.0
- Using the Runtime Control and Status API
- Using Automatic Failed Request Tracing
- Adding Trace Events to Managed Modules

Lab 1: Troubleshooting Web Servers

- Locating Failures using FREB
- Tracing Failed Requests
- Using RSCA to View Executing Requests
- Using Managed APIs to Access RSCA Data
- Using Automatic Failed Request Tracing
- Using Trace Events in ASPX Pages
- Adding Trace Events to Managed Modules

After completing this module, students will be able to:

- Troubleshoot IIS 7.0 with included tools.
- Locate and trace failed requests, using automatic tracing, managed APIs, and ASPX pages.

- Use managed APIs to access RSCA data.

Module 5: Introduction to the Windows SharePoint Services 3.0 Platform

This module describes and demonstrates Windows SharePoint Service 3.0, including planning for implementation and performing a new installation.

Lessons

- Overview of Windows SharePoint Services 3.0
- Collaboration Technologies Offered by Windows SharePoint Services 3.0
- Determining Organizational and User Needs
- Review Planning Site Creation, Maintenance, and Security
- Review Planning Server Requirements and Topologies
- Performing a Clean Installation of Windows SharePoint Services 3.0
- Installing and Configuring the Central Administration Site

Lab 1: Introduction to the Windows SharePoint Services 3.0 Platform

- Installing and Configuring the Central Administration Site
- Installing the Central Administration Site
- Configuring the Services on the Windows SharePoint Services 3.0 Server

After completing this module, students will be able to:

- Plan for SharePoint Services 3.0 implementation.
- Install and configure Windows SharePoint Services 3.0.

Module 6: Configuring and Managing Windows SharePoint Services 3.0

This module describes and demonstrates how to configure and manage Windows SharePoint Services 3.0, including creating and configuring sites and managing sites and servers.

Lessons

- Creating and Configuring Sites
- Managing Windows SharePoint Services 3.0 Sites
- Managing the Windows SharePoint Services 3.0 Server

Lab 1: Configuring and Managing Windows SharePoint Services 3.0

- Creating a Web Application and Site Collection
- Creating a Web Application
- Creating a Site Collection
- Starting the Windows SharePoint Services Search Service
- Configuring the Alternate Access Mappings
- Managing Site Settings
- Troubleshooting Windows SharePoint Services 3.0 Server Performance Issues

After completing this module, students will be able to:

- Create Web applications and Site collection with Windows SharePoint Services 3.0.
- Manage site settings
- Troubleshoot SharePoint performance issues.

Module 7: Configuring Terminal Services

Terminal Services has been updated with Windows Server 2008, including changes to Terminal Services core. This module covers the new Terminal Services core functionality as well as Terminal Services Web Access and Terminal Services Licensing.

Lessons

- Terminal Services Overview
- Terminal Services Core Functionality
- Terminal Services Web Access
- Terminal Services Licensing

Lab 1: Exploring Terminal Services

- Installing Terminal Services
- Remote Desktop Connection
- Configure TS Web Access

After completing this module, students will be able to:

- Describe how Terminal Services works.
- Identify new Terminal Services core features.
- Use Terminal Services Web Access.
- Describe how Terminal Services Licensing functions.

Module 8: Managing Terminal Services

With Windows Server 2008 Remote Programs are accessed remotely through Terminal Services. Terminal Services Gateway can be used to help secure access to Remote Programs. This module describes and demonstrates using Terminal Services management consoles and Event Viewer as well as using Terminal Services with Windows System Resource Manager to optimize performance.

Lessons

- Terminal Services Remote Programs
- Terminal Services Gateway
- Managing Terminal Services

Lab 1: Managing Terminal Services

- Using Terminal Services Remote Programs
- Configuring Terminal Services Gateway
- Managing Terminal Services Remote Programs
- Managing Terminal Server
- Optimizing Terminal Services Performance

After completing this module, students will be able to:

- Use and Manage Terminal Services Remote Programs
- Use and Manage Terminal Services Gateway
- Optimize and Monitor Terminal Services

Module 9: Configuring Storage

One of the tasks that you perform when administering a server is managing disks. You will need to understand the Microsoft Windows Server 2008 tools that are available to set up and manage disks and disk drives. This understanding also allows users to employ advanced features, such as creating a mounted drive and importing a foreign disk.

This module covers these tasks and describes how to use the tools to manage and set up disks.

Lessons

- Preparing Disks
- Managing Disk Properties
- Managing Mounted Drives
- Converting Disks
- Creating Volumes
- Creating Fault-Tolerant Volumes

Lab : Configuring Storage

- Configure partitions and file systems
- Configure Volumes

After completing this module, students will be able to:

- Initialize and partition a disk.
- View and update disk properties.
- Manage mounted drives.
- Convert a disk from basic to dynamic and from dynamic to basic.
- Create volumes on a disk.
- Create fault-tolerant volumes.

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- Designed a Microsoft Windows Server 2003 Active Directory and Network Infrastructure.
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