MOC 10159 Updating Your Windows Server 2008 Technology Specialist Skills to Windows Server 2008 R2

Course Summary

Description
This course teaches the new features of Windows Server 2008 R2 to IT professionals who have specialist skills in working with Windows Server 2008 Technology. The course facilitates accelerated learning of Windows Server 2008 R2 features and the features enabled in Windows Server 2008 R2 for Windows 7.

Objectives
At the end of this course, students will be able to:

- Deploy and manage Windows Server 2008 R2.
- Manage Windows Server 2008 R2 with Windows PowerShell 2.0.
- Configure Active Directory in Windows Server 2008 R2.
- Configure server virtualization by using Hyper-V.
- Configure Remote Desktop Services and Virtual Desktop Infrastructure in Windows Server 2008 R2.
- Deploy and configure Remote Access Services.
- Configure Windows Server 2008 R2 features for branch offices.
- Configure and manage Windows Server 2008 R2 Web services.

Topics

- Deploying Windows Server 2008 R2
- Managing Windows Server 2008 R2
- Managing Windows Server 2008 R2 with Windows PowerShell 2.0
- Configuring Active Directory in Windows Server 2008 R2
- Configuring Server Virtualization by Using Hyper-V
- Configuring Remote Desktop Services and Virtual Desktop Infrastructure in Windows Server 2008 R2
- Deploying and Configuring Remote Access Services
- Configuring Windows Server 2008 R2 Features for Branch Offices
- Configuring and Managing Windows Server 2008 R2 Web Services

Audience
This course is designed for IT professionals who are experienced on technologies in the Windows Server 2008 and who certified Windows Server 2008 Technical Specialists or have equivalent knowledge. Students taking this course are expected to have experience in hands-on deployment and the day-to-day management of Windows-based servers for enterprise organizations.
Students are required to have the following Core Windows Server 2008 Technology Specialist and Programming skills:

- Installation and Automated Deployment
- Server and Client Configuration
- Monitoring and Management Tools
- Networking
- Active Directory Domain Services
- Security
- Group Policy
- Performance Monitoring
- Troubleshooting
- Familiarity and experience with batch scripting or another scripting language

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Course Summary (cont'd)

Prerequisites

Before attending this course, students must have the following prerequisite knowledge:

- Core Windows Server 2008 Technology Specialist skills
- Familiarity and experience in batch scripting or another scripting language
- Experience with Windows deployment technologies and implementation
- Experience with Windows networking technologies and implementation
- Experience with Active Directory technologies and implementation
- Experience with Windows Server 2008 server virtualization technologies and implementation
- Experience with Windows Server 2008 Web application server technologies and implementation

Duration

Three days

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Course Outline

I. Deploying Windows Server 2008 R2

This module explains how to deploy Windows Server 2008 R2. It also describes the steps to install Windows Server 2008 R2. It also explains the methods to configure Windows deployment services and the methods to migrate server roles, features, and settings to Windows Server 2008 R2.

A. Installing Windows Server 2008 R2
B. Configuring Windows Deployment Services
C. Migrating Server Roles, Features, and Settings to Windows Server 2008 R2

Lab: Deploying Windows Server 2008 R2

- Configuring and Testing Virtual Hard Disk with Native Boot
- Configuring New Features in Windows Deployment Services
- Migrating Server Roles

After completing this module, students will be able to:

- Install Windows Server 2008 R2.
- Configure Windows Deployment Services.
- Migrate server roles, features, and settings to Windows Server 2008 R2.

II. Managing Windows Server 2008 R2

This module explains how to manage Windows Server 2008 R2. It also explains management enhancements and backup features that help manage Windows Server 2008 R2.

A. Management Enhancements in Windows Server 2008 R2
B. Working with File Classification Infrastructure
C. Using Backup Features in Windows Server 2008 R2
D. Administering Windows Server 2008 R2

Lab: Managing Windows Server 2008 R2

- Using Server Manager for Remote Administration
- Removing Anonymous Access to Confidential Files Automatically
- Configuring File Management Tasks
- Using Windows Server Backup Features

After completing this module, students will be able to:

- Describe the management enhancements in Windows Server 2008 R2.
- Work with file classification infrastructure.
- Use the backup features in Windows Server 2008 R2.
- Administer Windows Server 2008 R2.

III. Managing Windows Server 2008 R2 with Windows PowerShell 2.0

This module describes how to manage Windows Server 2008 R2 with Windows PowerShell 2.0. It further explains how to use Windows PowerShell 2.0 and how to manage Active Directory Domain Services and server roles by using Windows PowerShell.

A. Using Windows PowerShell
B. Managing AD DS with Windows PowerShell
C. Managing Server Roles with Windows PowerShell

Lab: Managing Windows Server 2008 R2

Using Windows PowerShell

- Working with Active Directory by Using the Active Directory PowerShell Module
- Managing IIS by Using Windows PowerShell
- Configuring Server Manager Server Roles and Features by Using Windows PowerShell

After completing this module, students will be able to:

- Use Windows PowerShell.
- Manage AD DS by using Windows PowerShell.
- Manage server roles by using Windows PowerShell.

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IV. Configuring Active Directory in Windows Server 2008 R2
This module explains how to configure Active Directory in Windows Server 2008 R2. It explains the steps for configuring the features of Active Directory Domain Services in Windows Server 2008 R2. It also explains the new Group Policy features in Active Directory domain services in Windows Server 2008 R2. The module also describes the features of other Active Directory Server roles in Windows Server 2008 R2.

A. Configuring Active Directory Domain Services Features
B. Configuring Group Policy in Active Directory Domain Services
C. Features of Other Active Directory Server Roles

Lab: Configuring Active Directory Domain Services Features

- Installing and Configuring Active Directory Administration Center
- Configuring and Testing the Active Directory Recycle Bin
- Configuring an Offline Domain Join

Lab: Configuring Group Policy in Active Directory Domain Services

- Using Starter GPO
- Using Group Policy Preferences
- Implementing Application Control Policies

After completing this module, students will be able to:

- Configuring Active Directory Domain Services Features.
- Configuring Group Policy in Active Directory Domain Services.
- Features of Other Active Directory Server Roles.

V. Configuring Server Virtualization by Using Hyper-V
This module explains how to configure Server Virtualization by using Hyper-V. It explains the features of Hyper-V. It also describes how to configure Live Migration in Hyper-V and how to effectively use System Center Virtual Machine Manager R2.

A. Configuring the Features of Windows Server 2008 R2 Hyper-V
B. Configuring Live Migration in Hyper-V
C. System Center Virtual Machine Manager R2

Lab: Configuring Server Virtualization by Using Hyper-V

- Installing and Configuring Failover Clustering
- Configuring Cluster Shared Volumes
- Setting Up a Virtual Machine for Live Migration

After completing this module, students will be able to:

- Describe Windows Server 2008 R2 Hyper-V.
- Configure Live Migration in Hyper-V.
- Describe System Center Virtual Machine Manager R2.

VI. Configuring Remote Desktop Services and Virtual Desktop Infrastructure in Windows Server 2008 R2
This module explains how to configure Remote Desktop Services and Virtual Desktop Infrastructure. It explains Remote Desktop Services and its features. It also describes how to configure Remote Desktop Services for remote computers and how to configure Virtual Desktop Infrastructure.

A. Configuring Remote Desktop Services
B. Configuring Remote Desktop Gateway
C. Configuring Virtual Desktop Infrastructure

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Lab: Configuring Remote Desktop Services and Virtual Desktop Infrastructure in Windows Server 2008 R2

- Publishing Applications by Using RemoteApp and Remote Desktop Connection Broker
- Publishing Applications for External Users by Using Remote Desktop Gateway
- Configuring Virtual Desktop Pool

After completing this module, students will be able to:

- Configure Remote Desktop Services for remote computers.
- Configure Remote Desktop Gateway.
- Configure Virtual Desktop Infrastructure.

VII. Deploying and Configuring Remote Access Services

This module explains how to deploy and configure Remote Access Services. It explains DirectAccess, including the methods for deploying DirectAccess. It also describes how to configure VPN Reconnect.

A. Overview of DirectAccess
B. Deploying DirectAccess
C. Configuring VPN Reconnect

Lab: Deploying and Configuring Remote Access Services

- Reviewing Existing Infrastructure Configuration
- Configuring Infrastructure Services for DirectAccess
- Configuring the DirectAccess Server and Verifying ISATAP-Based Connectivity
- Implementing VPN Reconnect

After completing this module, students will be able to:

- Describe DirectAccess.
- Deploy DirectAccess.
- Configure VPN Reconnect.

VIII. Configuring Windows Server 2008 R2 Features for Branch Offices

This module explains how to configure Windows Server 2008 R2 features for branch offices of a business enterprise. The module discusses the features for optimizing branch office network access. It also explains how to configure the branch office security features.

A. Features for Optimizing Branch Office Network Access
B. Configuring BranchCache
C. Configuring Branch Office Security Features

Lab: Configuring Windows Server 2008 R2 Features for Branch Offices

- Configuring BranchCache in Distributed Cache Mode
- Configuring BranchCache in Hosted Cache Mode
- Configuring Read-Only DFS Replica

After completing this module, students will be able to:

- Describe the features for optimizing branch office network access.
- Configure BranchCache.
- Configure the branch office security features.

IX. Configuring and Managing Windows Server 2008 R2 Web Services

This module explains how to configure and manage Windows IIS and FTP.

A. Configuring and Managing IIS
B. Configuring FTP

Lab: Configuring and Managing Windows Server 2008 R2 Web Services

- Creating and Configuring a Web Site on Windows Server 2008 R2
- Managing ASP.NET on Server Core
- Configuring FTP Virtual Host Names and Deploying FTP over SSL

After completing this module, students will be able to:

- Configure and manage IIS.
- Configure FTP.

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