"Charting the Course ...

... to Your Success!"

MOC 6416 D Updating your Network Infrastructure and Active Directory Technology Skills to Windows Server 2008

Course Summary

Description

This five-day instructor-led course teaches the features and technologies of Windows Server 2008 and Windows Server 2008 R2 to IT professionals who have specialist skills in working with Windows Server 2003 technologies. For students with the appropriate skillset, the course facilitates accelerated learning of Windows Server 2008 and covers features and technologies up to and including Windows Server 2008 R2 Sp1.

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

- Install and configure Windows Server 2008.
- Manage servers with Windows Server 2008.
- Configure networking and network services.
- Install and configure Network Policy Services and remote access services.
- Configure and manage Active Directory Domain Services.
- Manage Group Policies in Active Directory Domain Services.
- Configure Active Directory Certificate Services.
- Configure Active Directory identity and access solutions.
- Install and configure Remote Desktop Services.
- Manage Remote Desktop Services.
- Install and configure web servers and applications with Internet Information Services
- Configure storage technologies in Windows Server 2008
- Configure high availability in Windows Server 2008.
- Configure virtualization in Windows Server 2008.

Topics

- Installing and Configuring Windows Server 2008
- Server Management in Windows Server 2008
- Configuring Networking and Network Services
- Configuring Network Policy Server and Remote Access services
- Configuring and Managing Active Directory Domain Services
- Managing Group Policy in Active Directory Domain Services
- Configuring Active Directory Certificate Services
- Configuring Active Directory Identity and Access Solutions

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Course Summary (cont'd)

Topics (cont'd)

- Installing and Configuring Remote Desktop Services
- Managing Remote Desktop Services
- Installing and Configuring Web Servers and Applications with Internet Information Services
- Configuring Storage Technologies in Windows Server 2008
- Configuring High Availability in Windows Server 2008
- Configuring Virtualization in Windows Server 2008

Audience

The audience for this course is IT Professionals who wish to upgrade their existing Microsoft Certified Systems Administrator (MCSA) or Microsoft Certified Systems Engineer (MCSE) skills on Windows Server 2003 to Windows Server 2008 and Windows Server 2008 R2, and who also plan to take the following upgrade exams

- 70-648, TS: Upgrading your MCSA on Windows Server 2003 to MCTS on Windows Server 2008

Or

- 70-649, TS: Upgrading your MCSE on Windows Server 2003 to MCTS on Windows Server 2008

While the course is specifically targeted at the students who are certified as outlined earlier and are planning to take the upgrade exams listed above, the course may also be of benefit to IT professionals who do not hold an MCSA or MCSE on Windows Server 2003, but do have extensive experience with Windows Server 2003 and wish to update those skills to Windows Server 2008 and Windows Server 2008 R2.

Prerequisites

Before attending this course, students should have the following technical knowledge:

- Either MCSA or MCSE certification in Windows Server 2003

Students who do not hold either of these qualifications should have the following:

- Experience in planning, implementing, managing, maintaining, and securing Microsoft Windows Server 2003, including Active Directory, Network Infrastructure, Terminal Services, and Internet Information Services (IIS)
- Working knowledge of networking, such as TCP/IP and Domain Name System (DNS)
- Experience in installing, configuring, and administering Windows XP, Windows Vista, or Windows 7

Duration

Five days

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Course Outline (cont'd)

I. Installing and Configuring Windows Server 2008

This module explains how to plan and prepare the environment and servers for installation, upgrade, and migration to Windows Server 2008 and Windows Server 2008 R2 operating systems from Windows Server 2003.

A. Overview of Windows Server
B. Installing Windows Server 2008
C. Managing Server Roles and Features
D. Configuring and Managing Windows Server 2008 Server Core
E. Choosing a Deployment Strategy
F. Deploying Windows Server 2008

II. Server Management in Windows Server 2008

This module explains new technologies and options available to manage the operating system environment. The module discusses and allows students practice storage configuration, boot configuration, scheduled tasks and services, event logs, and performance monitoring.

A. Managing Windows Server with Server Manager
B. Managing Server Updates by using WSUS
C. Managing Backup and Restore by Using Windows Server Backup
D. Managing Event Logs and Auditing
E. Performance and Resource Management

III. Configuring Networking and Network Services

This module describes how to configure and troubleshoot the new networking technologies and settings on Windows Server 2008.

A. Configuring IPv6 Addressing
B. Migrating from IPv4 to IPv6
C. DHCP and DNS Enhancements in Windows Server 2008
D. Configuring and Managing Windows Firewall with Advanced Security
E. Configuring Routing and Networking with Windows Server 2008

IV. Configuring Network Policy Server and Remote Access services

This module explains how to configure Network Policy Server and Remote Access Services in Windows Server 2008. It outlines how to secure your remote access clients by using network policies and, where appropriate, Network Access Protection (NAP) as well as covering technologies such as VPN and also explaining DirectAccess, a feature available with Windows Server 2008 R2

A. Overview of Network Policy Server
B. Configuring a Network Policy Server
C. Configuring Remote Access
D. Managing DirectAccess in Windows Server 2008 R2
E. Implementing Network Access Protection
F. Configuring VPN Enforcement by Using NAP

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Course Outline (cont'd)

V. Configuring and Managing Active Directory Domain Services
This module explains the new and improved features of Windows 2008 and Windows 2008 R2 Active Directory Domain Services, such as RODC, fine-grained password policies and advanced auditing and others.

A. Active Directory Enhancements in Windows Server 2008 and 2008 R2
B. Installing and Configuring Domain Controllers
C. Configuring Read-Only Domain Controllers
D. Configuring Fine-Grained Password Policies
E. Managing Active Directory Objects with Windows PowerShell
F. Active Directory Database Management

VI. Managing Group Policy in Active Directory Domain Services
This module explains what is new in the management of an Active Directory Domain Services infrastructure, what improvements were made to Group Policy, what are Group Policy Preferences, and how the ability to restart the Active Directory database service (NTDS) supports and simplifies advanced administrative tasks.

A. Group Policy Enhancements in Windows server 2008
B. Managing Security with Group Policy
C. Managing Clients With Group Policy Preferences

VII. Configuring Active Directory Certificate Services
This module explains how to manage enterprise PKI smoothly in Windows Server 2008 and Windows Server 2008 R2 while ensuring a manageable, secure infrastructure, maintaining application and legacy system compatibility.

A. Active Directory Certificate Services Overview
B. Deploying Active Directory Certificate Services
C. Managing Certificate Templates
D. Managing Certificate Enrollment
E. Managing Certificate Revocation
F. Managing Certificate Recovery

VIII. Configuring Active Directory Identity and Access Solutions
This module explains the Active Directory(AD) roles of AD LDS, AD FS and AD RMS, how they fit into the overall Windows Server 2008 management concept, and how to configure a Windows Server 2008 and Windows Server 2008 R2 infrastructure to incorporate these roles.

A. Installing and Configuring AD LDS
B. Installing and Configuring AD FS
C. Overview of AD RMS
D. Installing and Configuring AD RMS

IX. Installing and Configuring Remote Desktop Services
This module provides an overview of RDS and related role services, and the procedures for connecting to an RD Session host. The module describes RemoteApp programs and the methods for accessing them. The module also explains how to use RD Gateway to access RDS infrastructure securely from an external network.

A. Overview of Remote Desktop Services
B. Implementing RemoteApp Infrastructure
C. Implementing Remote Desktop Gateway

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X. Managing Remote Desktop Services
It is very important to manage client connections for Remote Desktop to provide a stable and secure environment. In this module, you will learn about Remote Desktop Session Host and Connection Broker, Remote Desktop Licensing, and Remote Desktop client connections management

A. Managing RD Session Host and Connection Broker
B. Configuring and Managing Remote Desktop Licensing
C. Managing Remote Desktop Client Connections

XI. Installing and Configuring Web Servers and Applications with Internet Information Services
This module explains the new Web Server (IIS) 7.0 and 7.5 roles available on Windows Server 2008 and Windows Server 2008 R2, respectively. This module also describes the application servers that help configure a simple website, an FTP server, and an SMTP server within the IIS role

A. Managing the Web Server Role
B. Configuring web Applications and Sites
C. Configuring a File Transfer Protocol Server and Simple Mail Transfer Protocol Server
D. Configuring Secure Websites and Servers

XII. Configuring Storage Technologies in Windows Server 2008
This module defines basic storage terminology, types of available configurations, and information about storage area networks (SANs).

A. Configuring Distributed File System
B. Managing Storage with File System Resource Management
C. Implementing Classification Management and File Management Tasks
D. Configuring Storage in Windows Server 2008

XIII. Configuring High Availability in Windows Server 2008
This module explains the functionality of Network Load Balancing and how it has changed from previous versions of Windows Server to Windows Server 2008 to understand and implement a Windows Server 2008 failover cluster. This module covers the management and configuration aspects of both Network Load Balancing and failover clustering.

A. Configuring Network Load Balancing
B. Overview of Windows Server 2008 Failover Clusters
C. Preparing for Failover Clustering
D. Creating and Configuring Failover Clusters

XIV. Configuring Virtualization in Windows Server 2008
This module explains the features, requirements, and usage of the Hyper-V role of Windows Server 2008, as well as implementation of Virtual Desktop Infrastructure.

A. Hyper-V Overview
B. Installing and Configuring Hyper-V and Virtual Machines
C. Overview of Virtualization Management
D. High Availability in a Hyper-V Environment
E. Implementing Virtual Desktop Infrastructure

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