

LearnKey's Windows Server 2003 Managing a Network Environment with Aaron Spurlock

Syllabus

Course Description

5 Sessions - 15 Hours of Interactive Training

The Windows Server 2003 Managing a Network Environment course from LearnKey prepares you with the knowledge and skills needed to install, configure, and administer Microsoft Windows Server 2003. Expert instructor Aaron Spurlock shows you techniques for: monitoring and optimizing physical and logical devices; managing users, computers and groups; configuring access to resources; and disaster recovery contingency planning. LearnKey certification courses meet or exceed exam objectives. At the conclusion of the course, you will understand how to manage and maintain a Windows Server 2003 environment, and be prepared to pass MCP exam #70-290.

Expert

Aaron Spurlock is an MCSE+, MCT, CNE and CNI. He has consulted and trained on networks and computing for the past 15 years with Lucent Technologies, Mastering Computers, Scientific-Atlanta and the Florida Marlins, among others. He currently owns Technovation Design in Ogden, Utah, specializing in Windows 2000 and NetWare 5 consulting as well as home and corporate automation technologies.

Exams Offered Through the Curriculum

Labs: Each Lab demonstrates the procedures learned in the Training Session and allows you to perform the tasks yourself. If you make an incorrect move, the challenge banner appears, giving you the option to try again.

Testing Session: A Pre-Test and Post-Test are available to help you determine your goals and map your progress. These Testing Sessions determine your proficiency with the software application being taught. Testing formats include Simulations, True and False, Fill-in-the-Blank, Multiple Choice, and Keyboard Shortcuts. After each Testing Session, you can generate a performance-based progress report. You'll have immediate feedback to pinpoint your specific strengths and weaknesses.

Assignments

Each course session will have specific assignments to help supplement your training. These assignments include readings, interactive Tests, and discussions that will guide you through your study. As you complete the assignments and training, you will gain a broader perspective in your learning and the experience needed to pass your certification exam.

Supporting Text

MCSE/MCSA Managing and Maintaining a Windows Server 2003 Environment Study Guide
(Exam 70-290)

Author: Anil Desai

Publisher: Osborne / McGraw Hill

ISBN: 0072223227

Curriculum

Session 1	Session 2	Session 3
<p>Section A: Introduction Course Overview Windows 2003 Family Windows 2003 Editions Standard and Enterprise Datacenter and Web</p> <p>Section B: Installation Prerequisite Knowledge Hardware Requirements Clean Installations Upgrade Installations Upgrading NT 4.0 Domains NT 4.0 Upgrade Issues NT 4.0 Upgrade Order Upgrading to Active Directory</p> <p>Section C: Upgrading Windows 2000 Active Directory Adprep/forestprep Adprep/domainprep Set Up Server 2003 Windows Setup Verify Upgrade Functional Levels Domain/Forest Levels</p> <p>Section D: Hardware Support Server Class Hardware Standard/Wireless USB Devices View Devices Optical Drives Hardware Installation Driver Signing Unsigned Drivers</p> <p>Section E: Troubleshoot Hardware Hardware Problems Add Hardware Wizard Update Drivers Audio HAL/Computer Driver Other Tools</p>	<p>Section A: Server 2003 Hard Drives Basic Disks Dynamic Disks More on Basic Disks Basic to Dynamic Dynamic Conversion</p> <p>Section B: Basic Dynamic Volumes Overview Volume Types Spanned vs. Striped Disk Management Simple Volume Spanned Volume Striped Volume</p> <p>Section C: Fault Tolerant Volumes Mirrored Volume RAID-5 Volume Configure Mirror Configure RAID-5</p> <p>Section D: Managing Volumes Disk Management Console Mount into Directory Storage Commands DiskPart Utility Defrag Utility Schedule Defrag</p> <p>Section E: File Systems FAT/FAT32 NTFS NTFS-Based Features Format NTFS Format FAT32 File Permissions</p> <p>Section F: Computer Accounts Access Server Resources Join Domains Create Accounts Log onto Domain Computer Management Computer Account Issues DNS Settings Reset Account</p>	<p>Section A: User Accounts Basic Building Block Authentication Create Users Local User Account Active Directory Users User Properties Verify Resource Access</p> <p>Section B: Advanced User Accounts Create Users Quickly Create Template Copy Template net user Command dsadd User Command</p> <p>Section C: User Account Properties Properties Account Tab Profile Tab Account Policies Password Policy Account Lockout Policy</p> <p>Section D: User Profiles Overview Roaming Profile Mandatory Profile Add Roaming Profile Save Profile Add Mandatory Profile</p> <p>Section E: Groups Group Categories Group Scope Windows 2000 Mixed Mode Domain Local Group Global Group Universal Group Domain Groups Forest Groups</p> <p>Section F: Managing Groups Control Access Add Users Create Group Change Group Scope Move Users or Groups AD Automation</p>

Session 4

Section A: NTFS Permissions

Local File Access
Permission Inheritance
Grant Permissions
Advanced Permissions
Modify Inheritance
Effective Permissions

Section B: Share Permissions

Overview
Create Share
Real World Permissions
Modify Permissions
Troubleshooting

Section C: NTFS Features

Ownership
View Ownership
Take Ownership
Compression
Quotas
Apply Compression
Set Quota
Test Quota Entries

Section D: Printers

Permissions
Print Devices
Sharing
Setting Up
Install on Server
Share Permissions
Install on Client
Manage Printers
Print Queue
Print Server Properties

Section E: Windows Licensing

Site Licensing
Licensing Tool
Verify Licensing
Licensing Server
Licensing Modes

Section F: Software Update Services

Overview
Install SUS
Administrative Interface
Service Packs

Session 5

Section A: Remote Administration

Remote Tools
Install Help
Add Computer Mgt.
Remote Assistance
Using Remote Assistance

Section B: Remote Desktop

Overview
Implementing
Connection
Enable and Add Users
Remote Connection
Options
Remote Control

Section C: Web Server

Web Services
IIS 6.0
Install IIS
Manage Server
Securing IIS

Section D: Monitoring Servers

Monitoring Tools
System Monitor
Remote Monitoring
Performance Logs
Log/Schedule Properties
Create Logs/Alerts
View Logs
Performance Guidelines

Section E: Shadow Copies

Overview
Requirements
Enable Shadow Copies
Settings
Restore Shadow Copies

Section F: Backup

Backup Options
Removable Storage
Backup Process
Advanced Options
Scheduled Backups
Restore Options
Restore Active Directory
Restore Data

Section G: Disaster Recovery

Basic Elements
Redundancy
ASR
Using ASR

Objectives

Managing and Maintaining Physical and Logical Devices	Managing Users, Computers, and Groups	Managing and Maintaining Access to Resources
<p>Manage basic disks and dynamic disks.</p> <hr/> <p>Monitor server hardware. Tools might include Device Manager, the Hardware Troubleshooting Wizard, and appropriate Control Panel items.</p> <hr/> <p>Monitor server hardware. Tools might include Device Manager, the Hardware Troubleshooting Wizard, and appropriate Control Panel items.</p> <hr/> <p>Optimize server disk performance.</p> <ul style="list-style-type: none">• Implement a RAID solution.• Defragment volumes and partitions. <hr/> <p>Install and configure server hardware devices.</p> <ul style="list-style-type: none">• Configure driver signing options.• Configure resource settings for a device.• Configure device properties and settings. <hr/>	<p>Manage local, roaming, and mandatory user profiles.</p> <hr/> <p>Create and manage computer accounts in an Active Directory environment.</p> <hr/> <p>Create and manage groups.</p> <ul style="list-style-type: none">• Identify and modify the scope of a group.• Find domain groups in which a user is a member.• Manage group membership.• Create and modify groups by using the Active Directory Users and Computers Microsoft Management Console (MMC) snap-in.• Create and modify groups by using automation. <hr/> <p>Create and manage user accounts.</p> <ul style="list-style-type: none">• Create and modify user accounts by using the Active Directory Users and Computers MMC snap-in.• Create and modify user accounts by using automation.• Import user accounts. <hr/> <p>Troubleshoot computer accounts.</p> <ul style="list-style-type: none">• Diagnose and resolve issues related to computer accounts by using the Active Directory Users and Computers MMC snap-in.• Reset computer accounts. <hr/> <p>Troubleshoot user accounts.</p> <ul style="list-style-type: none">• Diagnose and resolve account lockouts.• Diagnose and resolve issues related to user account properties. <hr/> <p>Troubleshoot user authentication issues.</p> <hr/>	<p>Configure access to shared folders.</p> <ul style="list-style-type: none">• Manage shared folder permissions. <hr/> <p>Troubleshoot Terminal Services.</p> <ul style="list-style-type: none">• Diagnose and resolve issues related to Terminal Services security.• Diagnose and resolve issues related to client access to Terminal Services. <hr/> <p>Configure file system permissions.</p> <ul style="list-style-type: none">• Verify effective permissions when granting permissions.• Change ownership of files and folders. <hr/> <p>Troubleshoot access to files and shared folders.</p> <hr/>

Managing and Maintaining a Server Environment

Monitor and analyze events. Tools might include Event Viewer and System Monitor.

Manage software update infrastructure.

Manage software site licensing.

Manage servers remotely.

- Manage a server by using Remote Assistance.
 - Manage a server by using Terminal Services remote administration mode.
 - Manage a server by using available support tools.
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Troubleshoot print queues.

Monitor system performance.

Monitor file and print servers. Tools might include Task Manager, Event Viewer, and System Monitor.

- Monitor disk quotas.
 - Monitor print queues.
 - Monitor server hardware for bottlenecks.
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Monitor and optimize a server environment for application performance.

- Monitor memory performance objects.
 - Monitor network performance objects.
 - Monitor process performance objects.
 - Monitor disk performance objects.
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Manage a Web server.

- Manage Internet Information Services (IIS).
 - Manage security for IIS.
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Managing and Implementing Disaster Recovery

Perform system recovery for a server.

- Implement Automated System Recovery (ASR).
 - Restore data from shadow copy volumes.
 - Back up files and System State data to media.
 - Configure security for backup operations.
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Manage backup procedures.

- Verify the successful completion of backup jobs.
 - Manage backup storage media.
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Recover from server hardware failure.

Restore backup data.

Schedule backup jobs.
