

# Managing Windows 2003 Environment

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**Meet the expert:** Rafiq Wayani has extensive experience including more than 20 years in IT as Systems Architect, Software Engineer, DBA, and Project Manager. Wayani has instructed in a variety of technical areas, has designed and implemented network and information systems, and is certified across a wide range of platforms and systems including Microsoft Solutions Developer, Systems Engineer, Application Developer, Database Administrator, Trainer; Novell Netware Administrator and Engineer; Master Certified Netware Engineer; and A Certified.

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**Course description:** Managing and Maintaining a Microsoft Windows Server 2003 Environment course will give you the knowledge and skills necessary to prepare to pass Microsoft exam 70-290. This course is intended for individuals pursuing the MCSA or MCSE on Windows Server 2003 certification.

## Course outline:

### Server Roles / Logon Process

- Introduction
- Computer Roles
- Windows Server 2003 Editions
- Directory Services
- Active Directory Demo
- Organize / Manage Resources
- Logon Process
- Local / Domain Logon Demo
- Secondary Logon Demo
- Summary

### AD Users and Computers / DNS

- Introduction
- AD Users and Computers
- AD Users and Computers Demo
- Adding a New User in AD
- Adding a New Computer in AD
- Insert Client into a Domain
- AD Sites and Services
- AD Domains and Trusts
- Computer Management
- Tools
- Domain Name Service (DNS)
- DNS Demo
- Add an Alias
- Best Practices
- Summary

### AD Terms / Remote / MMC

- Introduction
- Active Directory Terms
- Remote Desktop
- Enable Remote Desktop

- Remote Desktop Options
- Save Rem. Desktop Shortcuts
- Adminpak.msi
- Install Adminpak.msi
- Adminpak Demo
- MS Management Console
- MMC Demo
- Add Snap-Ins to MMC
- Disable User Account
- Create User Template
- Add New User Using Template
- Create User Using DSADD
- Remove User Using DSRM
- Best Practices
- Summary

### OUs / Searching / Groups

- Introduction
- Organization Unit Models (OU)
- Organization Unit Demo
- Names Associated with OUs
- Searching in Active Directory
- Searching in AD Demo
- Using the Find Tool in AD
- Using Custom Search
- Using Common Queries
- Create/Use Saved Queries
- Domain Functional Levels
- Groups in Active Directory
- Create a New Group
- Domain/Forest Levels
- Add a Group Using DSADD

- Remove a Group Using DSRM
- Find a User in a Group Visually
- Work with Groups Using dsget
- Modifying Group Scope
- Best Practices
- Summary

### Security / Shared Folders

- Introduction
- Access to Resources
- User SID, ACE, and DACL Info
- Folder and File Security
- Well-Known SIDs
- Well-Known SIDs Demo
- Permissions
- Permissions Demo
- Permission Types
- Permissions in AD
- Shared Folders
- Shared Folders Demo
- Network vs NTFS Permissions
- Shared Folder Permissions
- Hide a Shared Folder
- View a Hidden Shared Folder
- Naming a Share
- Create Shares from cmd
- Best Practices
- Summary

### Shares / NTFS

- Introduction
- Administrative Shares
- View all Local Drive Shares
- Administrative Shares cont.

- View Administrative Shares
- Shared Folders
- Perm. to Create Shared Folder
- Create Shared Folders
- Publish Shared Folders
- Publish a Shared Folder in AD
- Map a Drive to a Shared Folder
- Shared Folder Permissions
- Shared Folder Perm. Demo
- NTFS
- File and Folder Permissions
- NTFS Permissions Demo
- Best Practices
- Summary

### Perm. / Caching / Printing

- Introduction
- Copy/Move Data Within NTFS
- Copy/Move Folders Demo
- Effective Permissions
- Determine Effective Permission
- Offline Files
- Offline Folder Caching
- Offline Caching Demo
- Printing Terminology
- Clients that Can Print
- Printing Methods
- Connect Printer Using TCP/IP
- Shared Network Printer
- Shared Printer Permissions
- Setting Shared Printer Perm.
- Printer Drivers

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- Locate/Config. Printer Drivers
- Printer Spooler
- Setup and Use Print Spooling
- Print Priorities and Scheduling
- Setup Printer Scheduling
- Best Practices
- Summary

## Active Directory / Group Policy

- Introduction
- AD Object Permissions
- View/Assign AD Object Perm.
- Char. of AD Objects Perms.
- Permission Inheritance
- Permission Inheritance Demo
- Delegating Control
- Delegation of Control Wizard
- Test New Delegation Perm.
- Group Policy
- Group Policy Management
- Edit the allUsers Group Policy
- Test allUsers Group Policy
- Group Policy Inheritance
- Create/Apply Policy to Cont.
- Block Inheritance to Containers
- Set Enforced Inheritance
- Summary

## More Group Policy

- Introduction
- Group Policy
- Local Computer Policy
- Group Policy Object Editor
- Edit a Group Policy
- Disable Shut Down Command
- Tools Used to Create GPOs
- Interface without GPMC
- Install GPMC
- GPMC
- Interface with GPMC Installed
- Group Policy Conflicts
- Group Policy Conflicts Demo
- Scripts in Group Policy
- Create/Execute a Script
- Attach Script Using GP
- Determining Applied Policy
- gpupdate / gpresult tools
- gpupdate / force
- GP Report/Modeling/Result
- Folder Redirection
- Folder Redirection Demo
- Summary

## Security / Auditing / Log Files

- Introduction

- User Rights vs Permissions
- Where to Find User Rights
- Where to Find User Permission
- Security Policy
- Security Templates
- Testing Security Policy
- Create Security Templates
- Assign Security Templates
- Create New Security Template
- Security Config and Analysis
- Import New Template into GP
- Auditing
- Enable Auditing
- Auditing in the Event Viewer
- Audit with Group Policy
- Log Files
- Best Practices
- Summary

## Perf. / Drivers / File Storage

- Introduction
- Server Performance - Memory
- Memory Bottleneck
- Monitoring Mem. Performance
- Server Perf. - Processor
- Monitoring Processor Perf.
- Server Performance - Disks
- Monitor Disk Performance
- Server Performance - Network
- Maintaining Device Drivers
- Viewing Device Manager
- Device Details
- Scan for Hardware Changes
- GP Setting (Unsigned Driver)
- Driver Signing Options
- Use GP for Unsigned Devices
- Rollback Driver Installation
- Rollback Driver Install Demo
- Managing Data Storage
- Compact Command-Line Tool
- How to Compress Files/Folders
- Compress Files/Folders Demo
- Effects of Moving/Copying CD
- Best Practices
- Summary

## Encryption / Disk Quotas

- Introduction
- EFS Encryption
- Encrypt Data Using Explorer
- Enc/Dec with Cipher Command
- Decrypt Using Explorer
- Move/Copy Enc. Files/Folders

- Managing Disk Quotas
- Managing Disk Quotas Demo
- Summary

## Disaster Recovery - Part 1

- Introduction
- Safe Mode
- Safe Mode Options
- Safe Mode Demo
- Last Known Good Config
- Recovery Console
- Install the Recovery Console
- Enter Recovery Mode
- Windows Startup Disk
- Create a Startup Disk
- Restart Using the Startup Disk
- Simulate a Startup Failure
- Startup Disk Requirements
- Summary

## Disaster Recovery - Part 2

- Introduction
- Disaster Recovery
- Automated System Recovery
- ASR Wizard
- Save Only System State Info
- ASR Restore
- Configure Shadow Copies
- Best Practices
- Summary

## Windows Update Services

- Introduction
- Software Update Services
- Requirements for SUS
- Install SUS
- Configure SUS
- Using SSL with SUS
- Backup SUS
- Restore SUS
- Best Practices
- Summary

## Disk Management

- Introduction
- Disk Management Overview
- DiskPart Utility
- Computer Management Demo
- DiskPart Tool Demo
- Summary

## RAID

- Introduction
- RAID Explained
- RAID Levels
- Software/Hardware RAID
- Disk Maintenance
- Software Site License
- 2003 License Console

- Summary

## Internet Information Server

- Introduction
- IIS 6.0 - What's New?
- Install IIS With Manager Server
- Test the Installation
- Install Remote Admin Tools
- Test Remote Admin Tools
- machine.config File
- Built-In Configuration Scripts
- Application Pools
- Create an Application Pool
- IIS Configuration Backup
- IIS Config Backup Demo
- Best Practices
- Summary

## Terminal Services

- Introduction
- Terminal Services
- Installing Terminal Services
- Configuring Terminal Services
- Terminal Services Manager
- Use Group Policy for Config
- Remote Control
- Best Practices
- Summary