

# Maintaining Win2K3 Active Directory

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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.

**Runtime:** 08:00:50

**Course description:** Planning, Implementing, and Maintaining a Windows Server 2003 Active Directory Infrastructure course will give you the knowledge and skills necessary to prepare to pass Microsoft exam 70-294. This course is intended for individuals pursuing the MCSE on Windows Server 2003 certification.

## Course outline:

### Intro to Active Directory

- Introduction
- Overview
- Provides Means for Control
- Stores Objects Securely
- Optimizes Network Traffic
- Additional Features
- Global Catalog (GC)
- Distinguished/Relative Names
- Where to Assign a GC Server
- View Site Names with ntdsutil
- Single Sign-On
- Authentication Process
- Authorization Process
- Summary

### Logical Structure

- Introduction
- Logical Structure Makeup
- Objects
- Object Classes
- Object/Object Class Demo
- Object Attributes
- AD Schema Explained
- Ways to Open AD Console
- Create a User Object
- Organizational Units (OU)
- Create an OU
- Add Users to an OU
- Add Security to OU
- Domains
- Set Up a Domain Controller

- Domain Trees
- Forests
- Create a Subdomain
- Summary

### Physical Structure

- Introduction
- Overview
- Two Components
- Domain Controllers
- Partitions
- Sites
- Default First Site Demo
- Summary

### Operations Masters - Part 1

- Introduction
- Overview
- Multimaster Replication
- Single Master Replication
- Operation Master (OM) Roles
- Forest-Wide OM Roles
- Domain-Wide OM Roles
- Operation Master Roles Demo
- Transfer OM Roles
- Summary

### Operations Masters - Part 2

- Introduction
- Schema Master
- Domain Naming Master
- PDC Emulator
- Relative ID (RID) Master
- Infrastructure Master
- Transferring Master Roles
- Seize Master Roles

- Locate/View the Master Roles
- Register schmgmt.dll
- How to Transfer Roles
- How to Seize Roles
- Summary

### Visual Active Directory

- Introduction
- Windows Server 2003 Family
- Windows Server 2003 Admin
- Using Visual/Command-Line Tools
- AD Users and Computers Tool Demo
- Adding Snap-Ins to MMC
- View Active Directory Objects
- Working with Saved Queries
- Work with Actors OU
- User Security Settings
- Summary

### Command Line

- Introduction
- Introducing Command-Line Tools
- dsadd Demo
- Add Computer/Group/User
- Remove Computer/Group
- Using dsrm (cont.)
- One Step Groups/Members
- More Command-Line Tools
- dsmod Demo
- dsQuery Demo
- Summary

### Advanced AD Tools

- Introduction
- Other Tools
- CSVDE Tool Demo

- Run-As Command
- Run-As Demo
- More dsquery Options
- Summary

### Best Practices

- Introduction
- Reasons for Command-Line Tools
- Rename Admin Account
- Rename Admin Account Demo
- Create Alt. Admin Account
- Use Accounts as Templates
- Template Account Demo
- More Best Practices
- Summary

### Resources and Security

- Introduction
- Resources and Security
- Create/Customize Template
- Apply GP w/ Security Template
- SCA Tool Demo
- Best Practices
- Summary

### Group Policy (GPO)

- Introduction
- Group Policy
- GP Management Console
- Create a New Group Policy
- Group Policy Object Editor
- Link Policy with a Container
- Test Group Policy
- Update Policy Using /force
- Group Policy Modeling Wizard
- Edit AllUsers Policy

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- Group Policy Results
- Group Policy Results Demo
- Backup/Restore GPO Demo
- Best Practices
- Summary

## Group Policy Software Install

- Introduction
- Overview
- Process
- Windows Installer
- Windows Installer Benefits
- Software Deployment Process
- Create a Shared Location
- Use Group Policy to Publish
- Use Group Policy to Assign
- Remove Installed Software
- Custom Categories
- Summary

## Disaster Recovery

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

## Partitions and Replication

- Introduction
- Application Directory Partitions
- Domain/ForestDNSZones
- Create an AD Partition
- AD Rep. Zone and Scopes
- New AD Replication Option
- Backup AD Information Demo
- Restore AD Information Demo
- Check if Restore Worked
- Best Practices
- Summary

## Troubleshooting Tools

- Introduction
- Troubleshooting Overview
- Enhanced Debug Logging
- EDL Demo
- Windows Support Tools
- Install Windows Support Tools
- DNSCmd
- DNSCmd Demo
- Summary

## More Troubleshooting Tools

- Introduction
- DNSLint
- DNSLint Demo

- Netsh
- Netsh Demo
- DCGPOFix
- DCGPOFix Demo
- Best Practices
- Summary

## Troubleshooting AD

- Introduction
- Repadmin Tool
- Repadmin Demo
- ADSIEdit Snap-In Tool
- ADSIEdit Demo
- View/Edit AD Objects
- Connect to a Domain
- Domain/Forest Level
- LDP Tool
- LDP Demo
- Best Practices
- Summary

## Forest Trusts

- Introduction
- Forest Trusts in Server 2003
- Create a Forest Trust Demo
- Set Domain/Forest to 2003
- Create an Outgoing Trust
- Create an Incoming Trust
- Other Forest Features
- Add User Principal Names
- Disable SID Filtering
- Enable/Disable SID Filtering
- Best Practices
- Summary

## DC Placement

- Introduction
- Global Catalog Server
- GC Customization
- Assign a Global Catalog
- AD Schema Manager
- Replicate AD Schema Attrib.
- Universal Group Memb. Cache
- Assign UGM Server
- Universal Groups
- Summary

## DC Placement - Sizing DC

- Introduction
- Active Directory Sizer
- AD Sizer Tool Demo
- Placing Domain Controllers
- Placing Global Catalog Servers
- UGM Caching
- AD Integrated DNS Servers
- Summary

## Maintaining AD

- Introduction

- Overview
- Data Modification Process
- Performance
- Fragmentation
- Integrity
- Move Active Directory
- Back Up Active Directory
- Compact Active Directory
- Copy Active Directory
- System State Data
- Back Up System State Data
- Methods to Restore AD
- Restore Active Directory
- Authoritative Restore
- Summary

## Monitor AD

- Introduction
- Reasons to Monitor
- 3 Levels of Monitoring
- Best Practices
- Summary