

Microsoft Windows 2003 Server Active Directory Services

Course:ET114

Course Description

This course will provide the essential technical details and skill set you need to successfully, plan, test, and deploy Windows 2003 Active Directory services. Using a test bed of virtual servers each student machine will host two domain controllers and an XP client image running on Microsoft Virtual Server allowing the full testing of the promotion and demotion of domain controllers, DNS Services, sites and site links, restoring the system state, and group policy

Course Level

Intermediate

Who should attend?

IT professionals responsible for system and network support/administration on Windows 2003 System

Pre-requisites

Our Networking Fundamentals and Previous proficiency with Microsoft Server and networking environments is required

Course Objectives

- Design and deploy Active Directory services
- Implementing group policy using the GPMC
- DNS Services
- Securing domains
- New 2003 R2 Active Directory services features
- Delegation of administrative tasks
- Implement sites, subnets, and site link configuration
- Recovering Active Directory
- Assistance in preparing for Microsoft Exams 70-294 and 70-297



Course Outline

1. Introduction to Windows 2003 Active Directory

Active Directory Concepts
Active Directory Improvements with 2003 R2
Overview a Group Policy

2. Active Directory Architecture

Directory Service Architecture
Physical and Logical Components
Naming Conventions in Active Directory

3. Domain Name System (DNS)

DNS and Active Directory
DNS Zone Types
Using Forwarders and Stub Zone

Labs

Install and Configure DNS

4. Installing Active Directory Services

Promoting the Domain Controller
Advance Active Directory Installation
Demoting a Domain Controller
NTDSUTIL Tool

Labs

Install Active Directory Service

Advanced AD Installation

5. Group Policy

Using the GPMC
Creating Group Policy Objects
Group Policy Exception
Backup and Restore Group Policy
Troubleshooting Group Policy

Labs

Create Group Policy using GPMC

Using Group Policy Options

6. Designing Active Directory

Designing Organizational Unit Structure
Planning for Domains, Tree and Forest
Active Directory and Exchange Integration
Active Directory Connector

7. Administrating Active Directory

Publishing Resources in Active Directory
Configuring an Authoritative Time Server
Manage Object Permissions
Delegating Administrative Control

Labs

Delegate Administrative Control

8. Active Directory Security

Active Directory Security
The Secedit Database
Security Templates

Labs

Configure Active Directory Security

9. Active Directory Migration

Migrating to Windows
Upgrading Domains
Active Directory Migration Tools
Domain Rename

Labs

Use ADMT

Rename Domain

10. Domain Components

Domain Controller Functionality
Trust Relationships
Operations Master Roles
Group Account Administration

Labs

Create Trust Relationships

Move FSMO

11. Global Catalog Servers

Domain Tree Components
GC Servers
UPN and Global Catalog Support

Labs

Assign Global Catalog Role

12. Sites and Replication Administration

Replication Fundamentals
Advanced Replication Concepts
Creating a Site
Site Links and Site Link Bridges

Labs

Create and Configure AD Site

13. Scripting and Active Directory

Windows Script Host
Creating ADSI Scripts
Using LDF Files for Administrative Tasks
Creating, Deleting, and Modifying Users

Labs

Manage User using Script

14. Modifying the Schema

Schema Components
Object Classes and Schema Objects
Using ADSI to View the Schema
Modifying the Schema

15. Active Directory Maintenance and Troubleshooting

Database File Structure
Backing up the System State
Restoring Active Directory Database
Resetting the DSRM Password

Labs

Backup and Restore AD Database

Reset DSRM Password

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