

Configuring and Troubleshooting Windows Server 2008 Active Directory Domain Services (MS6425)

Duration: 5 days

Introduction

This course provides Active Directory Technology Specialists with the knowledge and skills to configure Active Directory Domain Services in a distributed environment, implement Group Policies, perform backup and restore, and monitor and troubleshoot Active Directory related issues.

Audience

The primary audience for this course are AD Technology Specialists, Server Administrators, and Enterprise Administrators who wish to learn how to implement AD in a distributed environment, secure domains using Group Policies, and perform backup, restore, and monitor and troubleshoot AD configuration to ensure trouble free operation.

Prerequisites

Before attending this course, students must have:

- Basic understanding of networking.
- Intermediate understanding of network operating systems.
- An awareness of security best practices.
- Basic knowledge of server hardware. A+ or equivalent knowledge
- Some experience creating objects in Active Directory.
- Foundation course (6424A) or equivalent knowledge.
- Basic concepts of backup and recovery in a Windows Server Environment.

Topics

MODULE 1: IMPLEMENTING ACTIVE DIRECTORY DOMAIN SERVICES

This module explains how to install and configure Active Directory Domain Services and install and configure a read-only domain controller.

Lessons

- Installing Active Directory Domain Services
- Deploying Read-Only Domain Controllers
- Configuring AD DS Domain Controller Roles

Lab: Implementing Read-Only Domain Controllers

- Exercise 1: Evaluating Forest and Server Readiness for Installing an RODC
- Exercise 2: Installing and Configuring an RODC
- Exercise 3: Configuring AD DS Domain Controller Roles

MODULE 2: CONFIGURING DOMAIN NAME SERVICE FOR ACTIVE DIRECTORY DOMAIN SERVICES

This module explains how to configure Domain Name Services (DNS) for Active Directory Domain Services.

Configuring and Troubleshooting Windows Server 2008 Active Directory Domain Services (MS6425)

Lessons

- Overview of Active Directory Domain Services and DNS Integration
- Configuring Active Directory Integrated Zones
- Configuring Read Only DNS Zones

Lab: Configuring AD DS and DNS Integration

- Exercise 1: Configuring Active Directory Integrated Zones
- Exercise 2: Configuring Read-Only DNS Zones

MODULE 3: CONFIGURING ACTIVE DIRECTORY OBJECTS AND TRUSTS

This module explains how to configure Active Directory Objects and Trusts.

Lessons

- Configuring Active Directory Objects
- Strategies for Using Groups
- Automating AD DS Object Management
- Delegating Administrative Access to AD DS Objects
- Configuring AD DS Trusts

Lab A: Configuring Active Directory Objects

- Exercise 1: Configuring AD DS Objects
- Exercise 2: Implementing an AD DS Group Strategy
- Exercise 3: Automating the Management of AD DS Objects

Lab B: Configuring Active Directory Objects and Trusts

- Exercise 1: Delegating Control of AD DS Objects
- Exercise 2: Configuring AD DS Trusts

MODULE 4: CONFIGURING ACTIVE DIRECTORY SITES AND REPLICATION

This module explains how to configure Active Directory sites and replication.

Lessons

- Overview of AD DS Replication
- Overview of AD DS Sites and Replication
- Configuring and Monitoring AD DS Replication

Lab: Configuring Active Directory Sites and Replication

- Exercise 1: Configuring AD DS Sites and Subnets
- Exercise 2: Configuring AD DS Replication
- Exercise 3: Monitoring AD DS Replication

MODULE 5: CREATING AND CONFIGURING GROUP POLICY

This module explains how to create and configure Group Policy.

Lessons

- Overview of Group Policy
- Configuring the Scope of Group Policy Objects
- Evaluating the Application of Group Policy Objects
- Managing Group Policy Objects
- Delegating Administrative Control of Group Policy

Lab: Creating and Configuring GPOs

- Exercise 1: Creating Group Policy Objects
- Exercise 2: Managing the Scope of GPO Application

Configuring and Troubleshooting Windows Server 2008 Active Directory Domain Services (MS6425)

- Exercise 3: Verifying GPO Application
- Exercise 4: Managing GPOs
- Exercise 5: Delegating Administrative Control of GPOs

MODULE 6: CONFIGURING USER ENVIRONMENTS USING GROUP POLICY

This module explains how to configure user environments using Group Policy.

Lessons

- Configuring Group Policy Settings
- Configuring Scripts and Folder Redirection Using Group Policies
- Configuring Administrative Templates
- Group Policy Preferences
- Deploying Software Using Group Policy

Lab Configuring User Environments Using Group Policies

- Exercise 1: Configuring Scripts and Folder Redirection
- Exercise 2: Configuring Administrative Templates
- Exercise 3: Configuring Preferences
- Exercise 4: Verifying GPO Application

MODULE 7: IMPLEMENTING SECURITY USING GROUP POLICY

This module explains how to implement security using Group Policy.

Lessons

- Configuring Security Policies
- Implementing Fine-Grained Password Policies
- Restricting Group Membership and Access to Software

Managing Security Using Security Templates

Lab: Implementing Security Using Group Policies

- Exercise 1: Configuring Account and Security Policy Settings
- Exercise 2: Implementing Fine-Grained Password Policies
- Exercise 3: Configuring Restricted Groups and Software Restriction Policies
- Exercise 4: Configuring Security Templates
- Exercise 5: Verifying the Security Configuration

MODULE 8: IMPLEMENTING AN ACTIVE DIRECTORY DOMAIN SERVICES MONITORING PLAN

This module explains how to implement Active Directory Domain Services monitoring plan.

Lessons

- Monitoring AD DS Using Event Viewer
- Monitoring Active Directory Domain Servers Using Reliability and Performance Monitor
- Configuring AD DS Auditing

Lab: Monitoring Active Directory Domain Services

- Exercise 1: Monitoring AD DS Using Event Viewer
- Exercise 2: Monitoring AD DS Using Performance and Reliability Monitor
- Exercise 3: Configuring AD DS Auditing

MODULE 9: IMPLEMENTING AN ACTIVE DIRECTORY DOMAIN SERVICES MAINTENANCE PLAN

Configuring and Troubleshooting Windows Server 2008 Active Directory Domain Services (MS6425)

This module explains how to implement an Active Directory Domain Services maintenance plan.

Lessons

- Maintaining the AD DS Domain Controllers
- Backing Up Active Directory Domain Services
- Restoring Active Directory Domain Services

Lab: Implementing an Active Directory Domain Services Maintenance Plan

- Exercise 1: Maintaining AD DS Domain Controllers
- Exercise 2: Backing Up AD DS
- Exercise 3: Performing an Authoritative Restore of the AD DS Database
- Exercise 4: Restoring Data Using the AD DS Snapshot Viewer

MODULE 10: TROUBLESHOOTING ACTIVE DIRECTORY, DNS, AND REPLICATION ISSUES

This module explains how to troubleshoot Active Directory Domain Services, Domain Name Service, and Active Directory replication.

Lessons

- Troubleshooting Active Directory Domain Services
- Troubleshooting DNS Integration with AD DS
- Troubleshooting AD DS Replication

Lab: Troubleshooting Active Directory, DNS, and Replication Issues

- Exercise 1: Troubleshooting Authentication and Authorization Errors

- Exercise 2: Troubleshooting the Integration of DNS and AD DS
- Exercise 3: Troubleshooting AD DS Replication

MODULE 11: TROUBLESHOOTING GROUP POLICY ISSUES

This module explains how to troubleshoot the application of Group Policy objects.

Lessons

- Introduction to Group Policy Troubleshooting
- Troubleshooting Group Policy Application
- Troubleshooting Group Policy Settings

Lab: Troubleshooting Group Policy Issues

- Exercise 1: Troubleshooting Group Policy Scripts
- Exercise 2: Troubleshooting GPO Lab11B
- Exercise 3: Troubleshooting GPO Lab11C
- Exercise 4: Troubleshooting GPO Lab11D

MODULE 12: IMPLEMENTING AN ACTIVE DIRECTORY DOMAIN SERVICES INFRASTRUCTURE

This module explains how to implement an Active Directory Domain Services Infrastructure.

Lessons

- Overview of the AD DS Deployment
- Planning a Group Policy Strategy

Lab A: Deploying Active Directory Domain Services

- Exercise 1: Installing a Read-only Domain Controller (RODC) onto a

Configuring and Troubleshooting Windows Server 2008 Active Directory Domain Services (MS6425)

Server Core, and Creating a Branch Office Site

- Exercise 2: Creating a Domain in a Separate Tree and Separate Site

Lab B: Configuring Forest Trust Relationships

- Exercise: Upgrading the Fabrikam Domain, and Creating a Forest Trust with Woodgrove Bank

Lab C: Planning a Group Policy Strategy

- Exercise 1: Planning Group Policy
- Exercise 2: Creating a Domain in a Separate Tree and Separate Site
- Exercise 3: Implementing the Corporate Desktop Policy