

Microsoft Windows Server 2003 Active Directory, Planning, Implementing and Maintaining – 5 days

Course Objectives

This 5-day course has been designed to enable the student to plan, implement and troubleshoot a Microsoft Windows Server 2003 Active Directory® Service. The course focuses on a Windows Server 2003 directory service environment including forest and domain structure, Domain Name System, site topology and replication, organisational unit structure and delegation of administration, Group Policy together with user, group and computer account strategies.

The course is ideal for systems engineers and for individuals who currently support a competitive platform and want to enhance their skills using Windows Server 2003 Active Directory.

The course is also designed to help prepare candidates for the Microsoft Certified Professional Exam No. 70-294.

Prerequisites

To get the most benefit from the course, it is recommended that students have a good understanding of the following topics:

- Microsoft Windows 2003 Network and Operating System.
- Implementing Microsoft Windows 2003.

Exercises

This course is instructor led, involving the utilisation of examples and exercises in a workshop environment.

Module 1 - Introduction to Active Directory Infrastructure

This module introduces students to the Active Directory infrastructure, its logical and physical structure, and its function as a directory service. The module also introduces the command-line tools and snap-ins that you can use to examine the components of Active Directory and the Active Directory design, planning, and implementing process.

Topics to be covered are:

- Active Directory Architecture
- How Active Directory works
- Examining Active Directory Components
- The Active Directory Design, Planning and Implementation Processes

Module 2 - Implementing an Active Directory Forest and Domain Structure

This module discusses Active Directory installation requirements, how to create a forest and domain structure by using the Active Directory Installation Wizard, and the post-installation tasks you must perform. It also explains how to configure DNS in an Active Directory environment, raise forest and domain functional levels, and create trust relationships.

Topics to be covered are:

- Creating a Forest and Domain Structure
- Examining and Configuring Active Directory integrated DNS
- Creating Trust Relationships between Domains
- Secure Trusts by using SID filtering

Module 3 - Implementing an Organisational Unit Structure

This module discusses how to create organizational units, how to delegate common administrative tasks, how to customize the delegation of administrative tasks for an organizational unit, and how to plan the implementation of an organizational unit structure.

Topics to be covered are:

- Create and Manage Organisational Units
- Delegate Administrative Control for Organisational Units
- Plan an Organisational Unit strategy

Module 4 - Implementing User, Group and Computer Accounts

This module explains how to plan and implement Active Directory user, group, and computer accounts. It also explains how to create multiple user and computer accounts by using command-line tools such as CSVDE and LDIFDE, and how to manage accounts by using Windows Script Host. The module also explains how to implement User Principle Name (UPN) suffixes.

Topics to be covered are:

- Introduction to Active Directory Accounts and Groups
- Creating and managing multiple User and Computer Accounts
- Implement User Principal Name (UPN) Suffixes
- Move objects within a Domain and across Domains in a Forest
- Plan a User Computer and Group Account Strategy
- Plan an Active Directory Audit Strategy

Module 5 - Implementing Group Policy

This module explains how to plan and implement a Group Policy strategy to centrally manage users and computers in an enterprise.

Topics to be covered are:

- Create and configure Group Policy Objects (GPOs)
- Configure Group Policy Refresh Rates and Group Policy Settings
- Manage Group Policy Objects
- Verify and Troubleshoot Group Policy Objects
- Delegate Administrative Control of Group Policy
- Plan a Group Policy Strategy for the Enterprise

Module 6 - Deploying and Managing Software by Using Group Policy

In this module, students learn how to deploy and manage software by using Group Policy. The module focuses on basic concepts of deploying, configuring, and maintaining software, troubleshooting deployed software, and planning software deployment.

Topics to be covered are:

- Introduction to Managing Software Deployment
- Deploy Software
- Configure Software Deployment
- Maintain Software
- Troubleshoot common problems with Software Deployment
- Plan a Software Deployment Policy

Module 7 - Implementing Sites to Manage Active Directory Replication

This module explains how to implement sites to manage and monitor replication in Active Directory. The module presents basic concepts of replication and sites in Active Directory, specifically: creating, configuring, and managing sites; monitoring and troubleshooting replication failures; and planning a site strategy.

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Module 7 - Implementing Sites to Manage Active Directory Replication cont...

Topics to be covered are:

- Introduction to Active Directory Replication
- Create and Configure Sites
- Manage an Active Directory Topology
- Monitor and Troubleshoot Replication Failures
- Plan a Site Strategy

Module 8 - Implementing the Placement of Domain Controllers

This module introduces students to the placement of domain controllers. It focuses on the placement and planning of domain controllers, including global catalog servers, and DNS servers that are integrated with Active Directory. The module also discusses guidelines for caching universal group membership for a site.

Topics to be covered are:

- Implement the Global Catalog in Active Directory
- Determine the Placement of Domain Controllers in Active Directory
- Plan the placement of Domain Controllers in Active Directory

Module 9 - Managing Operations Masters

This module introduces students to managing operations masters in Active Directory. It explains the purpose of each of the five types of operations masters, how to transfer and seize operations master roles, and how to plan a strategy for placing operations masters.

Topics to be covered are:

- Introduction to the five Operations Master Roles in Active Directory
- Transfer and Seize Operations Master Roles
- Plan the Placement of Operations Masters

Module 10 - Maintaining Active Directory Availability

This module explains basic concepts about maintaining Active Directory availability, including how to defragment, move, back up, restore, and monitor an Active Directory database.

Topics to be covered are:

- Introduction to Maintaining Active Directory
- Move and Defragment an Active Directory Database
- Back up Active Directory
- Restore Active Directory by using the Authoritative Restore and the Normal, or Non-authoritative, Restore Methods

Module 11 - Planning and Implementing an Active Directory Infrastructure

This module provides students with the skills to plan and implement an Active Directory service infrastructure based on the business requirements of a fictitious organization.

Topics to be covered are:

- Review the Active Directory Design and Create an Active Directory Implementation Plan for Tailspin Toys
- Implement the Active Directory Infrastructure for Tailspin Toys