

6416 - Kursinnehåll:

Kursmaterialet utgörs av följande moduler (kapitel) och praktiska övningar:

Module 1: Installing and Configuring Windows Server 2008

This module explains how to install and configure Windows Server 2008. It also explores using Server Manager to work with roles, features, PowerShell and other aspects of server configuration like Automatic Updates.

Lessons

Server Manager Roles

Windows Server 2008 Features

Active Directory Improvements

Lab : Configuring Windows Server 2008

Initial Configuration Tasks

Server Manager Console

Server Manager Wizards

Windows PowerShell

After completing this module, students will be able to:

- Describe Windows Server 2008 roles.
- Describe Windows Server 2008 features.
- Describe Windows Server 2008 Active Directory Improvements.

Module 2: Windows Deployment Services

This module explains how to use benefits and components of Windows Deployment Services, including image capture and management.

Lessons

Introducing Windows Deployment Services

WDS Components

Lab : Working With Windows Deployment Services

Install and Configure Windows Deployment Services

Working with Images

Creating Images

Using Unattend Files

After completing this module, students will be able to:

- Describe Windows Deployment Services benefits.
- Describe Windows Deployment Services (WDS) components.

Module 3: Windows Server 2008 Server Core

This module explains how to use key functionality and benefits of a Server Core installation, including adding and configuring roles.

Lessons

Server Core Introduction

Configuring and Managing Server Core

Lab : Server Core

Installing Windows Server Core

Configure Server Core

Add and Configure Server Roles

Add Backup Feature

Managing Server Core

After completing this module, students will be able to:

- Describe Windows Server Core.
- Add and configure Windows Server Core roles.

Module 4: Windows Backup

This module provides an overview of the new backup infrastructure in Windows Server 2008, including Volume Shadow Copy service, scheduled vs. manual backups, media, the Universal Disk Format (UDF), and restoring data.

Lessons

Backup Infrastructure

Optical Media

Restore Utilities

Lab : Backup and Restore System Data

Perform Installation Tasks

Schedule a Backup

Create a Manual Backup

Schedule Daily AD DS Backup via Command Line

Backup and Recovery with Vista Client

Restore Files and Folders

Perform Windows RE Tasks

After completing this module, students will be able to:

- Explain the new backup infrastructure, including Volume Shadow Copy Service.
- Identify backup-capable media in Windows Server 2008.

- Restore Windows Server 2008 backups.

Module 5: Windows Server 2008 Updates to Networking

This module explains how to use new and improved networking features in Windows Server 2008, including server and domain isolation, IPv6, and DNS.

Lessons

Networking with Windows Server 2008

New Networking Features

DNS with Windows Server 2008

Configuring Routing

Configuring Wireless Settings in Server 2008

Lab : Reviewing Networking Defaults and Settings

Review the Network Center

Creating Domain Isolation Policies

Create a Centralized QoS Policy

Communicate with Link-Local Addresses

Lab : DNS Management Settings

Creating Zones in Windows Server 2008

Create Resource Records

Configure Zone Transfers

After completing this module, students will be able to:

- Describe the Windows Server 2008 network architecture.
- Identify new and improved networking features with Windows Server 2008.
- List new improvements to DNS with Windows Server 2008.
- Describe routing configuration components in Windows Server 2008.
- Describe new features for wireless networks.

Module 6: Network Policies and Access Protection

This module explains how to use Network Access Protection (NAP) and related technologies to enforce security and client health policies.

Lessons

Network Policies Access Protection

Enforcement Options

Network Access Protection Scenarios

Routing and Remote Access

Lab : Using Network Access Protection

Configuring Network Access Protection for DHCP

Configuring Network Access Protection for VPN

Configuring Network Access Protection for IPsec

After completing this module, students will be able to:

- Describe how Network Policies Access Protection (NAP) works.
- Identify NAP enforcement options.
- Identify scenarios for NAP usage.
- Describe Routing and Remote Access (RRAS).

Module 7: Hyper-V

This module explains how to use new capabilities and architecture in Hyper-V, including integrated management functions for physical and virtual environments.

Lessons

Introducing Hyper-V

Configuring Hyper-V

Lab : Configuring Hyper-V

Install and Configure Hyper-V

Configure Virtual Networks

Add Virtual Machines

Monitoring and Optimization

After completing this module, students will be able to:

- List the new features of Hyper-V.
- Configure Hyper-V virtual machines.

Module 8: Planning for Windows Server 2008 Active Directory Services

This module explains how to install and configure the Active Directory Domain Services (ADDS) server role and administering it with Server Manager. It also explores planning for deploying an Active Directory Domain Services infrastructure.

Lessons

Planning for AD DS Deployment

Upgrade Considerations

Lab : Installing a Windows Server 2008 Forest

Install a New Forest

Lab : Installing Windows Server 2008 in an Existing Forest

Install a Windows Server 2008 DC in an Existing Forest

Verify Active Directory Installation

After completing this module, students will be able to:

- Plan for a Windows Server 2008 Active Directory Domain Services deployment.
- Identify considerations when upgrading from a Windows Server 2003 to a Windows Server 2008 Active Directory infrastructure.

Module 9: Active Directory Domain Services

This module explains how to create and manage accounts, subnets, Site-Links, and Group Policy with new features in Active Directory Domain Services.

Lessons

What's New in AD DS

Manageability and Reliability

Lab : Exploring Active Directory Domain Services

Create Accounts

Review Operations Masters Role

Review Sites

Working with Subnets

Working with Site-Links

AD DS and Group Policy

Review DNS Configuration

After completing this module, students will be able to:

- Describe new features in AD DS.
- List manageability and reliability enhancements in AD DS.

Module 10: Identity and Access Services in Windows Server 2008 Active Directory

This module introduces Windows Server 2008's new Active Directory Services:

Active Directory Federation Services for identity access solution.

Active Directory Lightweight Directory Services (replaces Active Directory Account Management with Windows Server 2003), providing directory services for applications.

Active Directory Rights Management Services, enabling the creation of information-protection solutions.

Lessons

Active Directory Federation Services

Active Directory Lightweight Directory Services

Active Directory Rights Management Services

Lab : Active Directory Federation Services

Install AD FS

Configure Certificates

Configure Web Server

Configure the Account Federation Server

Configure the Resource Federation Server

Access Application from Client Computer

After completing this module, students will be able to:

- Install and configure Active Directory Federation Services.
- Install and configure Active Directory Lightweight Directory Services.
- Install and configure Active Directory Rights Management Services.

Module 11: Read-Only Domain Controllers

This module explains how to set up and manage a read-only domain controller.

Lessons

Read-Only Domain Controllers

Read-Only Domain Controller Operation

Lab : Read-Only Domain Controllers

Deploying an RODC

Administering an RODC

After completing this module, students will be able to:

- Describe the Read-Only Domain Controllers role.
- Use Read-Only Domain Controllers.

Module 12: Auditing Active Directory Domain Services Changes

This module explores new auditing features in Active Directory Domain Services and how to set up and manage auditing events.

Lessons

What's New in AD DS Auditing

Implementing AD DS Change Auditing

Lab : Using AD DS Auditing

Set-up AD DS Auditing

Create and View Auditing Events

After completing this module, students will be able to:

- Identify new features in AD DS auditing.

- Implement AD DS auditing.

Module 13: Enterprise PKI Active Directory Certificate Services (AD CS)

This module explains how to set up and manage Active Directory Certificate Services using PKIView.

Lessons

Certificate Authority

Lab : PKI Enhancements in Windows Vista and Windows Server 2008

Add a Certificate Server Role

Exploring New Enrollment UI

Introducing CA performance monitors UI

Exploring delegated enrollment UI

Introducing OCSP configuration UI

Explore Certificate Revocation

After completing this module, students will be able to:

- List improvements to Certificate Services.

Module 14: High Availability Features

This module explains how to use failover clustering and network load balancing.

Lessons

Failover Clustering

Network Load Balancing

Lab : High Availability Features

Installing a Two-Node File Server Cluster

Configure Network Load Balancing with IIS

After completing this module, students will be able to:

- Configure Windows Server 2008 Failover Clustering.
- Configure Windows Server 2008 Network Load Balancing.

Module 15: Performance Monitoring and Optimization

This module explains how to use Windows Server 2008's performance monitoring tools, including using Windows System Resource Manager to implement server resource controls.

Lessons

Windows Reliability and Performance Monitor

Microsoft Windows System Resource Manager

Monitoring Events

Lab : Performance Monitoring and Optimization

Reviewing Performance and Reliability Monitoring

Key Scenarios for Monitoring Performance and Reliability

Add Windows System Resource Manager Feature

Windows System Resource Manager Scenarios

Configure Windows System Resource Manager for Terminal Services

After completing this module, students will be able to:

- Describe the features of Windows Reliability and Performance Monitor.
- Implement server resource controls using Windows System Resource Manager.
- Describe improvements to Windows Server 2008 event monitoring tools.

Module 16: Software Maintenance Using Windows Server Update Services

This module introduces Microsoft Windows Server Update Services (WSUS), a tool for managing and distributing software updates that resolve known security vulnerabilities and other stability issues in Microsoft Windows 2000 and newer operating systems, as well as other Microsoft applications. This module also describes how to install the client and server components of WSUS. It also provides necessary information about managing the WSUS infrastructure.

Lessons

Introduction to Windows Server Update Services

Installing and Configuring Windows Server Update Services

Managing Windows Server Update Services

Lab : Installing and Configuring Windows Server Update Services

Install Prerequisites

Install WSUS

Restore a WSUS Installation

Create a Computer Group and Manage Updates

After completing this module, students will be able to:

- Explain Microsoft WSUS
- Install and configure WSUS
- Manage the WSUS infrastructure