

70-640 R4: Configuring Windows Server 2008 Active Directory

Course Introduction

6m

Course Introduction

Chapter 01 - Installing the Active Directory Role

1h 24m

Lesson: What is IDA?

What is Active Directory Identity and Access (IDA)

Five Components of the IDA Platform

What Windows 2008 Server Offers Beyond the IDA

Lesson: How to Install the AD DS Role

What are the Different Components?

Preparation Checklist for Creating a Windows Server 2008 Forest

How to Add the Directory Service Role

Demo - Creating a Windows Server 2008 Forest

Lesson: The New Windows 2008 Server Core

Understanding Server Core

Lesson: Installing AD DS Server Core

Installing Server Core

Demo - Installing a Server Core Domain Controller

Chapter 01 Review

Chapter 02A - Working With Active Directory Objects

1h 30m

Lesson: Using the MMC

Understanding the MMC

How to Use the Microsoft Management Console (MMC)

Customize the MMC with Snap-ins

Learn How to Use the Alternate Login Credentials

Demo - Custom MMC

Lesson: Working with Objects in Active Directory

Creating an OU

Creating a User Object

Creating a Group Object

Lesson: How to Search Through Active Directory

How to Find Objects in Active Directory

Introducing LDAP

Demo - Using Active Directory

Lesson: Securing and Delegating AD Objects

Understanding Delegation

What are User Rights?

Using the Delegation of Control Wizard

Demo - Delegation

Chapter 02B - Working With Active Directory Objects

1h 7m

Lesson: Adding Computer Accounts to AD

Understanding Workgroups, Domains, and Trusts

Identifying Requirements for Joining a Computer to the Domain

Lesson: Organizing AD with Container Objects

Understanding Containers

Creating OUs for Computers

Adding a Computer to the Domain

Restricting the Ability of Users to Create Computers

Demo - Joining the Domain
Lesson: Working With Computer Objects and Accounts
Configuring Computer Properties
Moving a Computer
Managing a Computer with the AD Users and Computers
Recognizing a Computer Account Problem
How to Reset a Computer Account
How to Rename a Computer
Ways to Disable/Enable Computer Accounts
How to Delete a Computer Account
Demo - Recycling the Computer Account
Lesson: Automating Computer Account Creation
Importing Computers with CSVDE
Importing Computers with LDIFDE
Creating Computers with DSadd
Creating Computers with Netdom
Windows PowerShell
Creating Computers with VBScript
Demo - Automating Computer Creation
Chapter 02 Review

Chapter 03A - Understanding GPO's

1h 29m

Lesson: Using Group Policy
Review of Group Policy
Lesson: What Are Group Policy Objects
Group Policy Objects
Scope
Policy Settings
Filtering Administrative Template Policy Settings
Demo - Group Policy
Lesson: Restricted Group Policies
Understanding Restricted Groups Policies
Demo - Restricted Groups
Lesson: Analyzing Security Settings
How to Configure the Local Security Policy
Using Security Templates and Deploying the GPOs
Analyzing the Security Configuration of a Computer
Creating Security Templates from the Results
Lesson: Using The Security Configuration Wizard
The Security Configuration Wizard
Security Policy
Demo - SCW
Lesson: Deploying Software with Group Policy
Understanding GP Software Installation
Windows Installer Programs
Preparing an SDP
Creating a Software Deployment GPO
Managing the Scope of Software Deployment GPO
Demo - Software Deployment

Chapter 03B - Understanding GPO's

1h 1m

Lesson: Understanding Group Policy Scope
GPO Links
What is Inheritance and Precedence?
Security Filtering to Modify GPO Scope
WMI Filters
Enabling or Disabling GPOs and GPO Nodes
Lesson: How Group Policy Settings are Processed
Group Policy Processing
Demo - Group Policy Scope
Lesson: Verifying Group Policy Settings
Resultant Set of Policy
GP Results Wizard
Gpresult.exe
Group Policy Modeling Wizard
Demo - Verifying Group Policy
Lesson: Enabling Auditing
Audit Policy
How to Audit Access to Files and Folders
Enabling Audit Policy
Demo - Auditing
Chapter 03 Review

Chapter 04A - Managing Users and Groups with AD

1h 12m

Lesson: Automating User Account Creation
Automating the Creation of User Accounts with Templates
Introduction to the Active Directory Command-Line Tools
Demo - Automating User Accounts
Lesson: Working with User Attributes
How to Manage User Attributes
Understanding the Name and Other User Attributes
Account Properties
Managing User Attributes without the GUI
Lesson: User Account Administrative Tasks
Administrative Tasks
Demo - Supporting User Accounts
Lesson: Using PowerShell to Create User Accounts
What is Windows PowerShell?
Key Elements of PowerShell
User Creation with PowerShell
PowerShell Scripting
Demo - Creating Users with PowerShell
Lesson: Group Creation and Management
Managing Your Enterprise with Groups
Defining Group Naming Conventions

Chapter 04B - Managing Users and Groups with AD

1h 12m

Lesson: The Basics of Groups
Understanding Groups
What's a Group Scope?
Allowed Group Scope Conversions
Managing Group Membership
Demo - Managing Groups
Lesson: Best Practices for Using AD Groups
Best Practices for Group Attributes
Default Windows Groups

Lesson: Automating Group Creation
Creating and Managing Groups
Managing Group Membership with Windows PowerShell and VBScript
Demo - Automating Creation of Groups
Lesson: Advanced Group Options
Protecting Groups from Accidental Deletion
Delegating the Management of Group Membership
What are Shadow Groups?
Special Groups
Demo - Administering Groups
Chapter 04 Review

Chapter 05 - Working With Domain Controllers

41m

Lesson: How to Install a Domain Controller
Installing a DC with the Windows GUI
Using Unattended Installation and Answer Files
Installation Options
Lesson: Introducing the Operations Masters
Single Master Operations
Forest Wide Roles
Domain-Wide Roles
Lesson: Designing Where to Deploy the Operation Masters
Where to Place These Operations Masters
Identifying the Operations Masters
Transferring Operations Master Roles
Seizing Operations Masters
Demo - FSMO
Lesson: SYSVOL Replication with DFS
How to Raise the Domain Functional Level
Understanding the Migration Steps
Chapter 05 Review

Chapter 06 - Adding DNS

1h 27m

Lesson: DNS Basics
Overview
DNS and IPv6
Peer Name Resolution Protocol
Types of DNS Servers
Lesson: DNS Definitions and Terms
Understanding DNS
DNS Terms
Types of Records
Windows Server DNS Features
Demo - DNS
Lesson: Setting up DNS for the Enterprise
Configuring DNS
Considerations for Security
Working with DNS Server Settings
Application Directory Partitions
Administering DNS Servers
Demo - Global Names
Chapter 06 Review

Chapter 07 - Securing the Authentication Process

47m

Lesson: Password Security Policies
Understanding Password Policies
Understanding Password Settings Object
Demo - Passwords
Lesson: Introducing the Read-Only Domain Controller
Why RODC
RODC Options
Lesson: Installing the RODC
Deploying an RODC
Password Replication Policy
Lesson: Auditing Authentication Events
Account Logon Events
Configuring Authentication-Related Audit Polices
Demo - Account Logging
Chapter 07 Review

Chapter 08 - Monitoring and Supporting AD

56m

Lesson: Preparing for Recovery
Important Concepts
Twelve Categories of AD DS Administration
Lesson: Active Directory Tools
Tools
Performing Online/Offline Maintenance
Built-in Directory Protection Measures
Backups
Proactive Restores
Restarting in DSRM
Identifying the Backup Set
Other Options
Lesson: Monitoring Active Directory Performance
Managing System Resources
Demo - Performance Monitor
Chapter 08 Review

Chapter 09A - Planning Active Directory Deployment

1h 4m

Lesson: What Are Sites?
Understanding What a Site Is
Site Traffic
Planning Sites
Summarizing Site Planning
Lesson: Deciding on Site Boundaries
Defining Sites
Managing Domain Controllers in Sites
SRVs
Site Coverage
Demo - Sites and Subnets
Lesson: Working with Global Catalog Placement with AD Partitions
Reviewing AD Partitions
Understanding the Global Catalog
Placing GC Servers
Lesson: Controlling Replication Between Sites
Understanding AD Replication
Replication
Intersite Replication
Monitoring Replication

Chapter 09B - Planning Active Directory Deployment

47m

Lesson: Managing the Global Catalog
Configuring a Global Catalog
Understanding Application Directory Partitions
Lesson: Configuring AD Trust Relationships
Defining the Forest Infrastructure
Moving Objects
Migration Issues
Trust Relationships
Securing Trust Relationships
Demo - Trusts
Lesson: Choosing the Domain and Forest Functional Levels
Functional Levels
Domain Functional Levels
Forest Functional Levels
Chapter 09 Review

Chapter 10A - IDA Solutions

45m

Lesson: Understanding AD FS
Understanding AD FS
B2B
Support of AD FS
The AD FS Process
Working with FS Designs
AD FS Components
Lesson: Installing AD FS
Installing AD FS
Lesson: Configuring and Using AD FS
Finalizing the Configuration of AD FS
Using and Managing AD FS
Lesson: Understanding AD RMS
Understanding AD RMS
New AD RMS Features
Basic Concepts
AD RMS Installation Scenarios
Preparing AD RMS Installation Prerequisites
Lesson: Installing AD RMS
AD RMS Considerations
Understanding AD RMS Certificates
Lesson: Configuring and Using AD RMS
Configuring AD RMS
Managing Databases

Chapter 10B - IDA Solutions

1h 20m

Lesson: Understanding AD CS
Understanding AD CS
CA Options
Creating the CA Hierarchy
Some Best Practices
Additional Planning Requirements
Lesson: Installing AD CS
Installing AD CS
Demo - Certificate Services
Lesson: Configuring and Using AD CS
Finalizing the Configuration of an Issuing CA
Considerations for the Use and Management of AD CS

Lesson: Understanding AD LDS
What is AD LDS?
Comparing LDS with DS
AD LDS Scenarios
Lesson: Installing AD LDS
Installing AD LDS
Demo - Installing AD LDS
Lesson: Configuring and Using AD LDS
Working with AD LDS Tools
Creating an LDS Instance
Other Options
Lesson: Security Review
Review
Chapter 10 Review
Course Closure

Total Duration: 16hrs 47m