Configuring Windows Server 2008 Active Directory

- **Course Number**: 70-640

Certification Exam

This course is preparation for the Microsoft Technical Specialist (TS) exam, Exam 70-640: TS: Windows Server 2008 Active Directory, Configuring

Course Overview

When you pass Exam 70-640: TS: Windows Server 2008 Active Directory, Configuring, you complete the requirements for the following certification:

- Microsoft Certified Technology Specialist (MCTS): Windows Server 2008 Active Directory, Configuration

Exam 70-640 counts as credit toward the following certifications:

- Microsoft Certified IT Professional (MCITP): Enterprise Administrator
- Microsoft Certified IT Professional (MCITP): Server Administrator

Prerequisites/Audience

The Microsoft Certified Technology Specialist (MCTS) on Windows Server 2008 credential is intended for IT professionals who work in the complex computing environment of medium-sized to large companies. The MCTS candidate should have at least one year of experience implementing and administering a network operating system in an environment that has the following characteristics:

- 250 to 5,000 or more users
- Three or more physical locations
- Three or more domain controllers
- Network services and resources such as messaging, a database, file and print, a proxy server, a firewall, the Internet, an intranet, remote access, and client computer management
- Connectivity requirements such as connecting branch offices and individual users in remote locations to the corporate network and connecting corporate networks to the Internet

Course Outline

Course Introduction 6m

Course Introduction

Chapter 01: Installation 1h 22m

Active Directory, Identity, and Access
Five Components of the IDA Platform
Beyond IDA
Components of an AD Infrastructure
Preparing to Create a New Windows Server 2008 Forest
Adding the AD DS Role Using the Windows Interface
Demo - Creating a Windows Server 2008 Forest

Understanding Server Core
Installing Server Core
Demo - Installing a Server Core Domain Controller
Chapter 01 - Review

Chapter 02: Administration 1h 30m

Understanding the MMC
AD Administrative Tools
More of the MMC
Custom MMC
Demo - Custom MMC

Creating an OU
Creating a User Object
Creating a Group Object
Finding Objects in Active Directory
LDAP
Demo - Using Active Directory

Understanding Delegation
Rights
Delegation of Control Wizard
Demo - Delegation
Chapter 02 - Review

Chapter 03: Users 1h 5m

Automating the Creation of User Accounts
Using Active Directory Command-Line Tools
Demo- Automating User Accounts

Windows PowerShell
Understanding Windows PowerShell

Creating a User with PowerShell
PowerShell Script
Demo - Creating Users with PowerShell

Managing User Attributes (1)
Understanding Name and Account Attributes
Account Properties
Managing User Attributes (2)
Administering User Accounts
Demo - Supporting User Accounts
Chapter 03 - Review

Chapter 04: Groups 1h 22m

Managing and Enterprise with Groups
Defining Group Naming Conventions
Understanding Groups
Group Scopes
Converting Group Scope and Type
Managing Group Membership
Demo - Managing Groups

Creating and Managing Groups
Managing Group Membership with Windows PowerShell and VBScript
Demo - Automating Creation of Groups

Best Practices for Group Attributes
Protecting Groups from Accidental Deletion
Delegating the Management of Group Membership
Shadow Groups
Default Groups
Special Identities
Demo - Administering Groups
Chapter 04 - Review

Chapter 05: Computers 1h 7m

Understanding Workgroups, Domains, and Trusts
Identifying Requirements for Joining a Computer to the Domain
Containers
Creating OU's for Computers
Adding a Computer to the Domain
Restricting the Ability of Users to Create Computers
Demo - Joining the Domain

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

Configuring Computer Properties
Moving a Computer
Managing a Computer with the AD Users and Computers
Recognizing a Computer Account Problem
Resetting a Computer Account
Renaming a Computer
Disabling and Enabling Computer Accounts
Deleting a Computer Account
Recycling Computers
Chapter 05 - Review

Chapter 06: Group Policy Infrastructure 1h 21m

Review of Group Policy
Group Policy Objects (1)
Scope
Group Policy Objects (2)
Policy Settings
Filtering Administrative Template Policy Settings
Demo - Group Policy

GPO Links
Inheritance and Precedence
Security Filtering to Modify GPO Scope
WMI Filters
Enabling or Disabling GPO's and GPO Nodes
Group Policy Processing
Demo - Group Policy Scope

Resultant Set of Policy
GP Results Wizard
Gpresult.exe
Group Policy Modeling Wizard
Demo - Verifying Group Policy
Chapter 06 - Review

Chapter 07: Group Policy Settings 1h 6m

Understanding Restricted Groups Policies
Demo - Restricted Groups
Lesson 2: Managing Security Settings
Configuring the Local Security Policy
Using the Security Template Snap-in
Deploying Security Templates by Using GPO's
Analyzing the Security Configuration of a Computer
Creating Security Templates
The Security Configuration Wizard
Security Policy
Demo - SCW

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

Audit Policy
Auditing Access to Filters and Folders
Enabling Audit Policy
Demo - Auditing
Chapter 07 - Review

Chapter 08: Authentication 46m

Understanding Password Policies
Understanding Password Settings Object
Demo - Passwords

Account Logon and Logon Events
Configuring Authentication-Related Audit Polices
Demo - Account Logging

Why RODC
RODC Options
Deploying an RODC
Password Replication Policy
Chapter 08 - Review

Chapter 09: Integrating DNS with AD DS 1h 26m

Overview

DNS and IPv6
Peer Name Resolution Protocol
Types of DNS Servers
Understanding DNS
DNS Terms
Types of Records
Windows Server DNS Features
Demo - DNS

Configuring DNS
Security Considerations
Working with DNS Server Settings
Application Directory Partitions
Administering DNS Servers
Demo - Global Names
Chapter 09 - Review

Chapter 10: Domain Controllers 40m

Installing a DC with the Windows Interface
Unattended Installation Options and Answer Files
Installation Options

Single Master Operations
Forest Wide Roles
Domain-Wide Operations Master Roles
Placing Operations Masters
Identifying Operations Masters
Transferring Operations Master Roles
Seizing Operations Masters
Demo - FSMO

Raising Domain Functional Level
Understanding the Migration Steps
Chapter 10 - Review

Chapter 11: Sites and Replication 1h 11m

Understanding Sites
Site Traffic
Planning Sites
Summarizing Site Planning
Defining Sites
Managing DC's in Sites
SRV's

Site Coverage
Demo - Sites and Subnets

Reviewing AD Partitions
Understanding the Global Catalog
Placing GC Servers
Configuring a GC
Understanding Application Directory Partitions

Understanding AD Replication
Replication
Intersite Replication
Monitoring Replication
Chapter 11 - Review

Chapter 12: Domains and Forests 43m

Functional Levels
Domain Functional Levels
Forest Functional Levels

Defining the Forest Infrastructure
Moving Objects
Migration Issues
Trust Relationships
Securing Trust Relationships
Demo - Trusts
Chapter 12 - Review

Chapter 13: Directory Business Continuity 56m

Important Concepts
Twelve Categories of AD DS Administration
Tools
Performing Online/Offline Maintenance
Built-in Directory Protection Measures
Backups
Proactive Restores
Restarting in DSRM
Identifying the Backup Set
Other Options

Managing System Resources
Demo - Performance Monitor
Chapter 13 - Review

Chapter 14: AD LDS 28m

What is AD LDS
Comparing LDS with DS
AD LDS Scenarios
Installing AD LDS
Demo - Installing AD LDS

Working with AD LDS Tools
Creating an LDS Instance
Other Options
Chapter 14 - Review

Chapter 15: AD CS and PKI 42m

Understanding AD CS
CA Options
Creating the CS Hierarchy
Some Best Practices
Additional Planning Requirements
Installing AD CS
Demo - Certificate Services

Finalizing the Configuration of an Issuing CA
Considerations for the use and Management of AD CS
Chapter 15 - Review

Chapter 16: AD RMS 29m

Understanding AD RMS
New AD RMS Features
Basic Concepts
AD RMS Installation Scenarios
Preparing AD RMS Installation Prerequisites
AD RMS Considerations
Understanding AD RMS Certificates

Configuring AD RMS
Managing Databases
Chapter 16 - Review

Chapter 17: AD FS 27m

Understanding AD FS

B2B
Support of AD FS
The AD FS Process
Working with FS Designs
AD FS Components
Installing AD FS

Finalizing the Configuration of AD FS
Using and Managing AD FS
Chapter 17 - Review
Course Closure

Total Duration: 16h 49m