

20411 Administering Windows Server 2012

Overview

This course focuses on the administration tasks necessary to maintain a Windows Server 2012 infrastructure such as configuring and troubleshooting name resolution, user and group management with Active Directory Domain Services (AD DS) and Group Policy.

Prerequisite Comments

Before attending this course, students must have:

- Knowledge and skills concerning the initial implementation and configuration of core Windows Server services including Active Directory Domain Services (AD DS), Networking Services and Microsoft Hyper-V.

The course pre-requisites can be met by having knowledge equivalent to, or by attendance at, course 20410D: Installing and Configuring Windows Server 2012, as this course will build upon that knowledge and skills covered in that course.

Target Audience

- Windows Server Administrators experienced in working with Windows Server 2008 or Windows Server 2012 who wish to gain skills necessary to perform daily management and maintenance tasks in a Windows Server 2012 or Windows Server 2012 R2 environment.
- IT Professionals who are looking to take the 411, Administering Windows Server 2012 exam
- IT professional wishing to take the Microsoft Certified Solutions Expert (MCSE) exams in DataCenter, Desktop Infrastructure, Messaging, Collaboration and Communications will also be interested in taking this course as they prepare for the Microsoft Certified Solutions Associate (MCSA) exams, which are a pre-requisite for their individual specialties.

Course Objectives

After completing this course, students will be able to:

- Configure and Troubleshoot Domain Name System
- Maintain Active Directory Domain Services
- Manage User and Service Accounts
- Implement Group Policy Infrastructure
- Manage User Desktops using Group Policy
- Install, Configure and Troubleshoot Network Policy Server
- Implement Network Access Protection
- Implement Remote Access
- Optimize File Services
- Configure Encryption and Advanced Auditing
- Deploy and Maintain Server Images
- Implement Update Managements
- Monitor Windows Server 2012

Course Outline

1 - Configuring and Troubleshooting Domain Name System

Configuring the DNS Server Role
Configuring DNS Zones
Configuring DNS Zone Transfers
Managing and Troubleshooting DNS
Lab : Configuring and Troubleshooting DNS

2 - Maintaining Active Directory Domain Services

Overview of AD DS
Implementing Virtualized Domain Controllers
Implementing RODC
Administering AD DS
Managing the AD DS Database
Lab : Maintaining AD DS

3 - Managing User and Service Accounts

Configuring Password Policy and User Account Lockout Settings
Configuring Managed Service Accounts
Lab : Managing User and Service Accounts

4 - Implementing a Group Policy Infrastructure

Introducing Group Policy
Implementing and Administering Group Policy Objects (GPOs)
Group Policy Scope and Group Policy Processing
Troubleshooting the Application of GPOs
Lab : Implementing a Group Policy Infrastructure

5 - Managing User Desktops with Group Policy

Implementing Administrative Templates
Configuring Folder Redirection and Scripts
Configuring Group Policy Preferences
Managing Software with Group Policy
Lab : Managing User Desktops with Group Policy

6 - Installing, Configuring, and Troubleshooting the Network Policy Server Role

Installing and Configuring a Network Policy Server
Configuring RADIUS Clients and Servers
NPS Authentication Methods
Monitoring and Troubleshooting a Network Policy Server
Lab : Installing and Configuring a Network Policy Server

7 - Implementing Network Access Protection

Overview of Network Access Protection
Overview of NAP Enforcement Processes
Configuring NAP
Configuring IPSec Enforcement for NAP
Monitoring and Troubleshooting NAP
Lab : Implementing Network Access Protection

8 - Implementing Remote Access

Overview of Remote Access
Implementing DirectAccess by Using the Getting Started Wizard
Implementing and Managing an Advanced DirectAccess Infrastructure
Implementing VPN
Implementing Web Application Proxy
Lab : Implementing DirectAccess by Using the Getting Started Wizard
Lab : Deploying an Advanced DirectAccess Solution
Lab : Implementing VPN
Lab : Implementing Web Application Proxy

9 - Optimizing File Services

Overview of FSRM
Using FSRM to Manage Quotas, File Screens, and Storage Reports
Implementing Classification and File Management Tasks
Overview of DFS
Configuring DFS Namespaces
Configuring and Troubleshooting DFS Replication
Lab : Configuring Quotas and File Screening Using File Server Resource Manager
Lab : Implementing Distributed File System

10 - Configuring Encryption and Advanced Auditing

Encrypting Drives by Using BitLocker
Encrypting Files by Using EFS
Configuring Advanced Auditing
Lab : Configuring Encryption and Advanced Auditing

11 - Deploying and Maintaining Server Images

Overview of Windows Deployment Services
Managing Images
Implementing Deployment with Windows Deployment Services
Administering Windows Deployment Services
Lab : Using Windows Deployment Services to Deploy Windows Server 2012

12 - Implementing Update Management

Overview of WSUS
Deploying Updates with WSUS
Lab : Implementing Update Management

13 - Monitoring Windows Server 2012

Monitoring Tools
Using Performance Monitor
Monitoring Event Logs
Lab : Monitoring Windows Server 2012
