

Administering Windows Server 2012

Course: 20411

Course Details

Audience(s): IT Professional(s)

Technology: Windows Server 2012

Duration: 40 Hours

ABOUT THIS COURSE

Get hands-on instruction and practice administering Windows Server 2012, including Windows Server 2012 R2, in this five-day Microsoft Official Course. This course is part two in a series of three courses that provides the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment.

The three courses collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. Although there is some cross-over of skills and tasks across these courses, 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, implementing Remote Access solutions such as DirectAccess, VPNs and Web Application Proxy, implementing Network Policies and Network Access Protection, Data Security, deployment and maintenance of server images, as well as update management and monitoring of Windows Server 2012 environments.

AUDIENCE PROFILE

This course is intended for Information Technology (IT) Professionals with hands on experience working in a Windows server 2008 or Windows Server 2012 environment who wish to acquire the skills and knowledge necessary to be able to manage and maintain the core infrastructure required for a Windows Server 2012 and Windows Server 2012 R2 environment.

Course Content

Module 1: Configuring and Troubleshooting Domain Name System

Lessons

- Configuring the DNS Server Role
- Configuring DNS Zones
- Configuring DNS Zone Transfers
- Managing and Troubleshooting DNS

Lab: Configuring and Troubleshooting DNS

Module 2: Maintaining Active Directory Domain Services

Lessons

- Overview of AD DS
- Implementing Virtualized Domain Controllers
- Implementing RODCs
- Administering AD DS
- Managing the AD DS Database

Lab: Maintaining AD DS

Module 3: Managing User and Service Accounts

Lessons

- Configuring Password Policy and User Account Lockout Settings
- Configuring Managed Service Accounts

Lab: Managing User and Service Accounts

Module 4: Implementing a Group Policy Infrastructure

Lessons

- Introducing Group Policy
- Implementing and Administering GPOs
- Group Policy Scope and Group Policy Processing
- Troubleshooting the Application of GPOs

Lab: Implementing a Group Policy Infrastructure

Module 5: Managing User Desktops with Group Policy

Lessons

- Implementing Administrative Templates
- Configuring Folder Redirection and Scripts
- Configuring Group Policy Preferences
- Managing Software with Group Policy

Lab: Managing User Desktops with Group Policy

Module 6: Installing, Configuring, and Troubleshooting the Network Policy Server Role

Lessons

- 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

Module 7: Implementing Network Access Protection

Lessons

- 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

Module 8: Implementing Remote Access

Lessons

- 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

Module 9: Optimizing File Services

Lessons

- 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

Module 10: Configuring Encryption and Advanced Auditing

Lessons

- Encrypting Drives by Using BitLocker
- Encrypting Files by Using EFS
- Configuring Advanced Auditing

Lab: Configuring Encryption and Advanced Auditing

Module 11: Deploying and Maintaining Server Images

Lessons

- 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

Module 12: Implementing Update Management

Lessons

- Overview of WSUS
- Deploying Updates with WSUS

Lab: Implementing Update Management

Module 13: Monitoring Windows Server 2012

Lessons

- Monitoring Tools
- Using Performance Monitor
- Monitoring Event Logs

Lab: Monitoring Windows Server 2012

At This Course Completion

At completing this course the student 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