
Administering Windows Server 2012

Duration: 5 Days Course Code: 411 Version: C

Overview:

Get hands-on instruction and practice administering Windows Server 2012, including Windows Server 2012 R2, in this 5-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 primarily covers 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 (ADDS) 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.

This course maps directly to and is the preferred choice for hands-on preparation for Microsoft Certified Solutions Associate (MCSA): Exam 411: Administering Windows Server 2012, which is the second of three exams required for MCSA: Windows Server 2012 certification.

NOTE: Labs in this course are based on the General Availability release of Windows Server 2012 R2 and Windows 8.1.

Target Audience:

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.

The key focus for students is to broaden the initial deployment of Windows Server 2012 services and infrastructure and provide the skills necessary to Manage and Maintain a domain based Windows Server 2012 environment, providing skills in areas such as User and Group management, Network Access and Data Security. Candidates typically interested in attending this course would be

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.

Objectives:

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

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

- Knowledge equivalent to course 20410A: Installing and Configuring Windows Server 2012 as this course will build upon that knowledge.
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Content:

Module 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

- Configuring DNS Resource Records
- Configuring DNS Conditional Forwarding
- Installing and Configuring DNS Zones
- Troubleshooting DNS

Module 2: Maintaining Active Directory Domain Services

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

Lab : Maintaining AD DS

- Installing and Configuring a RODC
- Create and administer AD DS Snapshots
- Configuring the Active Directory Recycle Bin
- Deploy a domain controller by using domain controller cloning

Module 3: Managing User and Service Accounts

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

Lab : Managing User and Service Accounts

- Configuring Password Policy and Account Lockout Settings
- Creating and Associating a Group Managed Service Account

Module 4: Implementing a Group Policy Infrastructure

- 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

- Creating and Configuring GPOs
- Managing GPO Scope
- Verify GPO Application
- Managing GPOs

Lab : Implementing DirectAccess by Using the Getting Started Wizard

- Verifying Readiness for a DirectAccess Deployment
- Running the Getting Started Wizard
- Validating the DirectAccess Deployment

Lab : Deploying an Advanced DirectAccess Solution

- Preparing the Environment for DirectAccess
- Implementing the Advanced DirectAccess Infrastructure
- Validating the DirectAccess Deployment

Lab : Implementing VPN

- Implementing VPN
- Validating the VPN Deployment

Lab : Implementing Web Application Proxy

- Implementing Web Application Proxy
- Validating the Web Application Proxy Deployment

Module 7: 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

- Installing and Configuring NPS to Support RADIUS
- Configuring and Testing a RADIUS Client

Module 8: Implementing Network Access Protection

- Network Access Protection Overview
- Configuring NAP
- Configuring IPsec Enforcement for NAP
- Monitoring and Troubleshooting NAP

Lab : Implementing NAP with VPN Enforcement

- Configuring NAP with VPN Enforcement
- Validating the Deployment

Lab : Implementing IPsec Enforcement for NAP

- Configuring IPsec Enforcement

Lab : Configuring Quotas and File Screening Using FSRM

- Configuring FSRM Quotas
- Configuring File Screening

Lab : Implementing DFS

- Installing the DFS role service
- Configuring a DFS Namespace
- Configuring DFS-R
- Module 10: Configuring Encryption and Advanced Auditing
- Encrypting Drives by Using BitLocker
- Encrypting Files by Using Encrypting File System
- Configuring Advanced Auditing

Lab : Configuring Encryption and Advanced Auditing

- Securing Data Drives by Using BitLocker
- Encrypting and Recovering Files
- Configuring Advanced Audit Policy Configuration

Module 11: Deploying and Maintaining Server Images

- Overview of Windows Deployment Services
- Managing Windows Deployment Images
- Implementing Deployment with Windows Deployment Services
- Administering Windows Deployment Services

Lab : Using Windows Deployment Services to Deploy Windows Server 2012

- Installing and Configuring Windows Deployment Services
- Creating Operating System Images with Windows Deployment Services
- Configuring Custom Computer Naming
- Deploying Images with Windows Deployment Services

Module 12: Implementing Update Management

- Overview of WSUS
- Deploying Updates with WSUS

Lab : Implementing Update Management

- Implementing the WSUS Server Role
- Configuring Update Settings
- Approving and Deploying an Update by using WSUS

Module 13: Monitoring Windows Server 2012

Module 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

- Implement Settings Using Group Policy Preferences
- Managing Office 2013 by using Administrative Templates
- Deploying Software by using Group Policy
- Configuring Folder Redirection
- Module 6: Configuring and Troubleshooting Remote Access
- Remote Access Overview
- Implementing DirectAccess by Using the Getting Started Wizard
- Implementing and Managing an Advanced DirectAccess Infrastructure
- Implementing VPN
- Implementing Web Application Proxy

- Validating the Deployment

Module 9: Optimizing File Services

- Overview of FSRM
- Using FSRM to Manage Quotas, File Screens, and Storage Reports
- Implementing Classification Management and File Management Tasks
- DFS Overview
- Configuring DFS Namespaces
- Configuring and Troubleshooting DFS-R

- Monitoring Tools
- Using Performance Monitor
- Monitoring Event Logs

Lab : Monitoring Windows Server 2012

- Establishing a Performance Baseline
- Identifying the Source of a Performance Problem
- Viewing and Configuring Centralized Event Logs

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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