

20411 Administering Windows Server 2012

Course Overview

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This is a 5-day class

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.

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 credential.

Who Should Attend

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.

Course Objectives



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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

2 Maintaining Active Directory Domain Services

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

3 Managing User and Service Accounts

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

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

5 Managing User Desktops with Group Policy

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

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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

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

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

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

10 Configuring Encryption and Advanced Auditing

Encrypting Drives by Using BitLocker
Encrypting Files by Using EFS
Configuring 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

12 Implementing Update Management

Overview of WSUS
Deploying Updates with WSUS

13 Monitoring Windows Server 2012

Monitoring Tools
Using Performance Monitor
Monitoring Event Logs