

# 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. Students will learn the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security.



## 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 environment. The key focus for students in this course 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, such as user and group management, network access and data security.

## 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
- Configure and Troubleshoot Remote Access
- Install, Configure and Troubleshoot Network Policy Server
- Implement Network Access Protection
- 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 RODCs
- 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

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## 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

## 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 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

## 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

## 8 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

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## 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 Replication  
Lab : Lab A: Configuring Quotas and File Screening Using FSRM  
Lab : Lab B: Configuring DFS Namespaces and Replication

## 10 Configuring Encryption and Advanced Auditing

Encrypting Drives by Using BitLocker  
Encrypting Network Files with 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