

# 20410 Installing and Configuring Windows Server 2012

## Course Overview

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This is a 5-day class

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



## Who Should Attend

This course is intended for Information Technology (IT) Professionals who have good Windows® operating system knowledge and experience and who want to acquire the skills and knowledge necessary to implement the core infrastructure services in an existing Windows Server® 2012 environment. Although students would benefit from having some previous Windows Server experience, they must have good hands-on Windows Client experience with Windows Vista®, Windows 7, or Windows 8.

## Course Objectives

After completing this course, students will be able to: - Deploy and Manage Windows Server 2012 - Describe Active Directory Domain Services (AD DS) - Manage AD DS objects - Automate AD DS Administration - Implement IPv4 - Implement Dynamic Host Configuration Protocol (DHCP) - Implement Domain Name System (DNS) - Implement IPv6 - Implement local storage - Implement File and Print services - Implement Group Policy - Secure Windows servers by using Group Policy Objects (GPOs) - Implementing Server Virtualization with Hyper-V.

## Course Outline

### 1 Deploying and Managing Windows Server 2012

Windows Server 2012 R2 Overview  
Installing Windows Server 2012 R2  
Post-Installation Configuration of Windows Server 2012 R2  
Overview of Windows Server 2012 R2 Management  
Introduction to Windows PowerShell  
Lab : Deploying and Managing Windows Server 2012 R2  
Deploying Windows Server 2012 R2  
Configuring Windows Server 2012 R2 Server Core  
Managing Servers  
Using Windows PowerShell to Manage Servers

### 2 Introduction to Active Directory Domain Services

Overview of Active Directory Domain Services  
Overview of Domain Controllers  
Installing a Domain Controller  
Lab : Installing Domain Controllers

### 3 Managing Active Directory Domain Services Objects

Managing User Accounts  
Managing Groups  
Managing Computer Accounts  
Delegating Administration  
Lab : Managing Active Directory Domain Services Objects

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## 4 Automating Active Directory Domain Services Administration

Using Command-line Tools for Administration  
Using Windows PowerShell for Administration  
Performing Bulk Operations with Windows PowerShell  
Lab : Automating AD DS Administration by Using Windows PowerShell

## 5 Implementing IPv4

Overview of TCP/IP  
Understanding IPv4 Addressing  
Subnetting and Supernetting  
Configuring and Troubleshooting IPv4  
Lab : Implementing IPv4

## 6 Implementing DHCP

Installing a DHCP Server  
Configuring DHCP Scopes  
Managing a DHCP Database  
Securing and Monitoring DHCP  
Lab : Implementing DHCP

## 7 Implementing DNS

Name Resolution for Windows Clients and Servers  
Installing a DNS Server  
Managing DNS Zones  
Lab : Implementing DNS

## 8 Implementing IPv6

Overview of IPv6  
IPv6 Addressing  
Coexistence with IPv6  
IPv6 Transition Technologies  
Lab : Implementing IPv6

## 9 Implementing Local Storage

Overview of Storage  
Managing Disks and Volumes  
Implementing Storage Pools  
Lab : Implementing Local Storage

## 10 Implementing File and Print Services

Securing Files and Folders  
Protecting File Shares with Shadow Copies  
Configuring Network Printing  
Lab : Implementing File and Print Services

## 11 Implementing Group Policy

Overview of Group Policy  
Group Policy Processing  
Implementing a Central Store for Administrative Templates  
Lab : Implementing Group Policy

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## 12 Securing Windows Servers by Using Group Policy Objects

Windows Security Overview

Security Settings

Restricting Software

Configuring Windows Firewall with Advanced Security

Lab : Lab A: Increasing Security for Server Resources

Lab : Lab B: Configuring AppLocker and Windows Firewall

## 13 Implementing Server Virtualization with Hyper-V

Overview of Virtualization Technologies

Implementing Hyper-V

Managing Virtual Machine Storage

Managing Virtual Networks

Lab : Implementing Server Virtualization with Hyper-V