5 Days | 23410: Installing and Configuring Windows Server 2012

This 5-days Microsoft 20410D Installing and Configuring Windows Server 2012 training course, Part 1 in the series of 3 courses provides the requisite knowledge and skills to implement Microsoft Windows Server 2012 infrastructure in the current enterprise environment.

With the deployment of hands-on labs and lectures, this course teaches the professionals to install and configure Windows Server 2012, including Windows Server 2012 R2.

Note1: Labs in this course are based on Windows Server 2012 R2 and Windows 8.1.
Note2: The MCSA: Windows Server 2012 certification requires participants to clear all three exams, namely 20410, 20411, & 20412.

Course Details

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Course Outline

Module 1: Deploying and Managing Windows Server 2012

This module describes the editions of Windows Server 2012 and the new Windows Server 2012 management tools.

Lessons

- Windows Server 2012 Overview

- Overview of Windows Server 2012 Management

- Introduction to Windows PowerShell

- Installing Windows Server 2012

- Post-Installation Configuration of Windows Server 2012

Module 2: Introduction to Active Directory Domain Services

This module explains the structure of Active Directory Domain Services (AD DS), its various components, and various domain controllers.

Lessons

- Overview of AD DS and Domain Controllers

- Installing a Domain Controller

Module 3: Managing Active Directory Domain Services Objects

This module explains how to maintain user accounts and computer accounts, manage various consumer devices that employees use.

Lessons

- Managing User and Computer Accounts

- Managing Groups

- Delegating Administration

Module 4: Automating Active Directory Domain Services Administration

This module defines the use of command-line tools and Windows PowerShell to program AD DS administration.

Lessons

- Performing Bulk Operations with Windows PowerShell

- Using Command-line Tools for AD DS Administration

- Using Windows PowerShell for AD DS Administration

Module 5: Implementing IPv4

This module describes the use of IPv4, a network protocol used on the Internet and on local area networks.

Lessons

- Overview of TCP/IP

- Understanding IPv4 Addressing

- Configuring and Troubleshooting IPv4

- Subnetting and Supernetting

Module 6: Implementing Dynamic Host Configuration Protocol

This module explains supporting and troubleshooting a Windows Server–based network infrastructure.

Lessons

- Overview of the DHCP Server Role

- Managing a DHCP Database

- Configuring DHCP Scopes

- Securing and Monitoring DHCP

Module 7: Implementing DNS

This module explains the name resolution for Windows operating system clients and Windows Server servers.

Lessons

- Name Resolution for Windows Clients and Servers

- Installing a DNS Server

- Managing DNS Zones

Module 8: Implementing IPv6

This module describes the features and benefits of IPv6, effect of IPv6 on IPv4 networks, and integration of IPv6 and IPv4 networks.

Lessons

- Overview of IPv6

- IPv6 Addressing

- Coexistence with IPv4

- IPv6 Transition Technologies

Module 9: Implementing Local Storage

This module describes several different storage technologies, their management and implementation.

Lessons

- Overview of Storage

- Implementing Storage Spaces

- Managing Disks and Volumes

Module 10: Implementing File and Print Services

This module explains how to provide file and print resources with Windows Server 2012, their security, and protection. It also explains the new network printing features that help to configure the network printing environment.

Lessons

- Securing Files and Folders

- Protect Shared Files and Folders

- Configuring Work Folders and Network Printing

Module 11: Implementing Group Policy

This module gives glimpses of Group Policy and explains how to implement Group Policy.

Lessons

- Overview of Group Policy

- Group Policy Processing

- Implementing a Central Store for Administrative Templates

Module 12: Securing Windows Servers Using Group Policy Objects

This module introduces the Windows Server 2012 operating system security, the various security threats, and strategies to secure your Windows Server 2012 infrastructure.

Lessons

- Security Overview for Windows Operating Systems

- Restricting Software

- Configuring Security Settings

- Configuring Windows Firewall with Advanced Security

Module 13: Implementing Server Virtualization with Hyper-V

This module introduces the virtualization technologies available on Windows, primarily focusing on the Hyper-V role in Windows Server 2012 and Windows Server 2012 R2.

Lessons

- Overview of Virtualization Technologies

- Implementing Hyper-V

- Managing Virtual Machine Storage

- Managing Virtual Networks

Who Should Attend

This Installing and Configuring Windows Server 2012 course is intended for (IT) professionals who carry relevant knowledge and experience working with Windows operating systems and aspire to acquire the skills necessary to configure a Windows Server 2012 or Windows Server 2012 R2 server in an existing Windows server environment. Typically, candidates who are interested in attending this course include:

- Windows Server administrators

- IT professionals who have experience in other non-Microsoft technologies.

- IT professionals who wish to take the Microsoft Certified Solutions Expert (MCSE) exams in Data Center, Messaging, Collaboration, and Communications.

Pre Requisite

This course requires that student meet the following prerequisites, including that they have:

- Basic knowledge of networking fundamentals.

- Basic knowledge of AD DS concepts.

- An awareness and knowledge of security best practices.

- An understanding of server hardware.

- Experience working with, and configuring, Windows client operating systems, such as Windows 7 or Windows 8.

Exams

Microsoft Certified Professional (MCP) [70-410]

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