

Course 20410D: Installing and Configuring Windows Server® 2012

Exam Code: 70-410

Course Outline

Module 1: Deploying and Managing Windows Server 2012

This module introduces students to the editions of Windows Server 2012 and the new Windows Server 2012 management tools. It also covers how to install Windows Server 2012, how to perform post-deployment tasks, and how to perform basic administrative tasks.

Lessons

Windows Server 2012 Overview

Installing Windows Server 2012

Post-Installation Configuration of Windows Server 2012

Overview of Windows Server 2012 Management

Introduction to Windows PowerShell

Lab: Deploying and Managing Windows Server 2012

Module 2: Introduction to Active Directory Domain Services

This module covers the structure of Active Directory Domain Services (AD DS) and its various components, such as forest, domain, and organizational units (OUs). It also gives an overview of domain controllers, in addition to choices that are available with Windows Server 2012 for installing AD DS on a server.

Lessons

Overview of AD DS

Overview of Domain Controllers

Installing a Domain Controller

Lab: Installing Domain Controllers

Module 3: Managing Active Directory Domain Services Objects

This module describes how to manage user accounts and computer accounts, including how to manage various consumer devices that employees use. The module also covers how to manage an enterprise network by managing groups, and how to delegate administrative tasks to designated users or groups.

Lessons

Managing User Accounts

Managing Groups

Managing Computer Accounts

Delegating Administration

Lab : Managing Active Directory Domain Services Objects

Module 4: Automating Active Directory Domain Services Administration

This module describes how to use command-line tools and Windows PowerShell to automate AD DS administration. It discusses various command-line tools and Windows PowerShell commands, and then describes how to use these tools and commands to modify objects individually and in bulk operations.

Lessons

Using Command-line Tools for AD DS Administration

Using Windows PowerShell for AD DS Administration

Performing Bulk Operations with Windows PowerShell

Lab : Automating AD DS Administration by Using Windows PowerShell

Module 5: Implementing IPv4

This module discusses using IPv4, which is the network protocol used on the Internet and on local area networks. In this module, students learn how to implement an IPv4 addressing scheme and how to troubleshoot network communication. This module also covers how to determine and troubleshoot network-related problems.

Lessons

Overview of TCP/IP

Understanding IPv4 Addressing

Subnetting and Supernetting

Configuring and Troubleshooting IPv4

Lab : Implementing IPv4

Module 6: Implementing Dynamic Host Configuration Protocol

This module covers supporting and troubleshooting a Windows Server–based network infrastructure by deploying, configuring, and troubleshooting the Dynamic Host Configuration Protocol (DHCP) server role.

Lessons

Overview of the DHCP Server Role

Configuring DHCP Scopes

Managing a DHCP Database

Securing and Monitoring DHCP

Lab : Implementing DHCP

Module 7: Implementing DNS

This module describes name resolution for Windows operating system clients and Windows Server servers. It also covers installing and configuring a DNS Server service and its components.

Lessons

Name Resolution for Windows Clients and Servers

Installing a DNS Server

Managing DNS Zones

Lab : Implementing DNS

Module 8: Implementing IPv6

This module discusses the features and benefits of IPv6, how IPv6 affects IPv4 networks, and how to integrate IPv6 into IPv4 networks by using various transition technologies.

Lessons

Overview of IPv6

IPv6 Addressing

Coexistence with IPv4

IPv6 Transition Technologies

Lab : Implementing IPv6

Module 9: Implementing Local Storage

This module introduces several different storage technologies. It discusses how to implement the storage solutions in Windows Server 2012, and how to use the new Storage Spaces feature, which enables you to combine disks into pools that you can configure for automatic management.

Lessons

Overview of Storage
Managing Disks and Volumes
Implementing Storage Spaces

Lab : Implementing Local Storage

Module 10: Implementing File and Print Services

This module discusses how to provide file and print resources with Windows Server 2012. It describes how to secure files and folders, how to protect previous versions of files and folders by using shadow copies, and how to give workers remote access to corporate files by implementing the new Work Folders role service. It also describes new network printing features that help manage the network printing environment.

Lessons

Securing Files and Folders
Protecting Shared Files and Folders by Using Shadow Copies
Configuring Work Folders
Configuring Network Printing

Lab : Implementing File and Print Services

Module 11: Implementing Group Policy

This module provides an overview of Group Policy and provides details about how to implement Group Policy.

Lessons

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

Lab : Implementing Group Policy

Module 12: Securing Windows Servers Using Group Policy Objects

This module describes Windows Server 2012 operating system security. It covers how to identify security threats, plan your strategy to mitigate security threats, and secure your Windows Server 2012 infrastructure.

Lessons

Security Overview for Windows Operating Systems
Configuring Security Settings
Restricting Software
Configuring Windows Firewall with Advanced Security

Lab : Increasing Security for Server Resources

Lab : Configuring AppLocker and Windows Firewall

Module 13: Implementing Server Virtualization with Hyper-V

This module describes virtualization technologies available on Windows, specifically focusing on the Hyper-V role in Windows Server 2012 and Windows Server 2012 R2. It covers the components of the Hyper-V role, configuring and deploying the role, in addition to and how to configure and manage key components of a Hyper-V implementation, such as Storage and Networking.

Lessons

Overview of Virtualization Technologies

Implementing Hyper-V

Managing Virtual Machine Storage

Managing Virtual Networks

Lab : Implementing Server Virtualization with Hyper-V