

Course 2277C: Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure: Network Services

Module 1: Allocating IP Addressing by Using Dynamic Host Configuration Protocol (DHCP)

This module provides you with the knowledge and skills to allocate IP addressing in a network environment.

Lessons

- Multimedia: The Role of DHCP in the Network Infrastructure
- Adding and Authorizing a DHCP Server Service
- Configuring a DHCP Scope
- Configuring DHCP Reservations and Options
- Configuring a DHCP Relay Agent

Lab: Identifying and Resolving Common Issues When Allocating IP Addressing by Using DHCP

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Module 2: Managing and Monitoring Dynamic Host Configuration Protocol (DHCP)

This module provides you with the knowledge and skills to manage the DHCP service to reflect changing client IP addressing needs. It also provides you with the knowledge and skills to monitor DHCP server performance, because the DHCP environment is dynamic.

Lessons

- Managing a DHCP Database
- Monitoring DHCP
- Applying Security Guidelines for DHCP

Lab: Managing and Monitoring DHCP

- Managing and Monitoring DHCP

Module 3: Resolving Names

This module provides you with the knowledge and skills to assign computer names to the IP addresses of the source and destination hosts, and then use the computer name to contact the hosts.

Lessons

- Multimedia: Introduction to the Name Resolution Process
- Viewing Names on a Client
- Configuring Host Name Resolution
- Configuring NetBIOS Name Resolution

Lab: Resolving Names

- Troubleshooting Name Resolution

Module 4: Resolving Host Names by Using Domain Name System (DNS)

This module provides you with the knowledge and skills to resolve host names by using Domain Name System.

Lessons

- Multimedia: The Role of DNS in the Network Infrastructure
- Installing the DNS Server Service
- Configuring the DNS Server Service
- Configuring the DNS Zones
- Configuring DNS Zone Transfers
- Configuring a DNS Client

Lab: Resolving Host Names by Using Domain Name System

- Implementing a DNS Infrastructure

Module 5: Integrating Domain Name System and Active Directory

This module provides you with the ability to manage integration between Active Directory service and Domain Name System (DNS).

Lessons

- Configuring Active Directory Integrated Zones
- Configuring DNS Dynamic Updates
- Understanding How Active Directory Uses DNS

Lab: Integrating DNS and Active Directory

- Configuring Active Directory Integrated DNS Zones

Module 6: Managing and Monitoring Domain Name System (DNS)

This module provides you with the knowledge and skills to manage and monitor DNS servers to ensure that they are functioning properly and to optimize network performance.

Lessons

- Managing DNS Records
- Testing the DNS Server Configuration
- Monitoring DNS Server Performance

Lab: Managing and Monitoring DNS

- Managing and Monitoring DNS

Module 7: Resolving NetBIOS Names by Using Windows Internet Name Service (WINS)

This module provides you with the knowledge and skills to use WINS to register NetBIOS names and resolve them to IP addresses.

Lessons

- Multimedia: The Role of WINS in the Network Infrastructure
- Installing and Configuring a WINS Server
- Managing Records in WINS
- Configuring WINS Replication
- Managing the WINS database

Module 8: Configuring Routing by Using Routing and Remote Access

This module provides you with the knowledge and skills to configure a routing solution for your network environment.

Lessons

- Multimedia: The Role of Routing in the Network Infrastructure
- Enabling and Configuring the Routing and Remote Access Service
- Configuring Packet Filters

Lab: Configuring Routing by Using Routing and Remote Access

- Configure Routing and Remote Access
- Plan a Routing Topology

Module 9: Securing Network Traffic by Using IPSec and Certificates

This module provides you with the knowledge and skills to secure network traffic and to use certificates with IPSec for increased security.

Lessons

- Implementing IPSec
- Understanding IPSec Deployment Scenarios
- Monitoring IPSec

Module 10: Configuring Network Access

This module provides you with the knowledge and skills to configure a server with the Routing and Remote Access service, create appropriate remote access connections on a network access server, and configure users' access rights.

Lessons

- Introduction to a Network Access Infrastructure
- Configuring VPN Access
- Configuring Dial-up Access
- Configuring Wireless Access
- Controlling User Access to a Network
- Centralizing Network Access Authentication by Using IAS
- Protecting Remote Access by Using Network Access Quarantine

Module 11: Managing and Monitoring Network Access

This module provides you with the knowledge and skills to manage and monitor network access.

Lessons

- Managing the Network Access Services
- Configuring Logging on a Network Access Server
- Collecting and Monitoring Network Access Data

Lab: Managing and Monitoring Remote Access

- Monitoring a Remote Access Server