

Microsoft Windows 2003 Server Networking And High Availability

Course:ET116

Course Description

Windows Server 2003 operating systems take the best of Windows 2000 Server technology and make it easier to deploy, manage, and use. The result: a highly productive infrastructure that helps make your network a strategic asset for your organization. Windows Server 2003 SP1 provides enhanced security, increased reliability, and a simplified administration to help enterprise customers across all industries

Course Level

Intermediate

Who should attend?

IT professionals responsible for system and network support/administration on Windows 2003 System

Pre-requisites

Networking Fundamentals and Previous proficiency with Microsoft Server and networking environments is required

Course Objectives

- Plan a TCP/IP physical and logical network
- Plan and troubleshoot a routing strategy
- Plan a Dynamic Host Configuration Protocol
- Optimize and troubleshoot DHCP
- Plan a Domain Name System (DNS) strategy
- Optimize and troubleshoot DNS
- Windows Internet Naming Service (WINS)
- Plan, optimize, and troubleshoot Internet Protocol Security (IPSec) network access
- Troubleshoot network access
- Assistance in preparing for Microsoft Exams 70-291 and 70-293



Course Outline

1. Introducing Windows Server 2003 Network Infrastructure Planning

Introducing the Network Design
Overview of Network Infrastructure
Overview of the OSI Model
Overview of the TCP/IP Protocol Suite
Selecting Network Media
Selecting Network Protocol

2. Planning and Optimizing a TCP/IP Network

Introducing IP Addresses
Assigning IP Addresses
Creating a Subnet
Creating Subnets Using VLSM
Creating Subnets Using CIDR

3. Allocating IP Addressing by Using Dynamic Host Configuration Protocol (DHCP)

Planning a DHCP Strategy
Configuring a DHCP Scope
Configuring a DHCP Reservation
Configuring DHCP Options
Configuring a DHCP Relay Agent
Optimizing DHCP

Labs

Install and Configure DHCP Server

4. Planning Internet Connectivity

Selecting Intermediate Devices
Planning an Internet Connectivity Strategy
Planning Routing Communications

5. Resolving Names

The role of Name resolution in the Network infrastructure
Configuring Names on a Client
Configuring Host Name Resolution
Configuring NetBIOS Name Resolution

Labs

Configure Name Resolution

6. Planning a DNS Strategy

The role of DNS in the Network infrastructure
Planning DNS Servers
Configuring the DNS Zones
Configuring a DNS Client
Configuring DNS Zone Options
Delegating Authority for Zones
Integrating DNS and WINS
Verifying that a Resource Record Exists by Using Nslookup, DNSCMD, and DNSLint
Troubleshooting Host Name Resolution

Labs

Install and Configure DNS Server

7. Planning and Optimizing WINS

The role of WINS in the Network infrastructure
Configuring the WINS Server
Managing Records in WINS
Configuring WINS Replication

Managing the WINS database
Optimizing WINS Traffic

Labs

Install and Configure WINS Server

8. Configuring Routing by Using Routing and Remote Access

Using IP Routing Tables
Configuring static route
Configuring Dynamic route
Configuring Packet Filters
Configuring Network Address translation (NAT)

Labs

Configure LAN Router

Configure NAT

Configure Packet Filter

9. Configuring Network Access

Introducing Network Access Infrastructure
Configuring a VPN Connection
Configuring a Dial-up Connection
Configuring a Wireless Connection
Controlling User Access to a Network
Centralizing Network Access Authentication and Policy Management by Using IAS
Configuring Logging on a Network Access Server

Labs

Configure VPN Access

Configure IAS Server

10. High Availability Server

Introducing High Availability Server
Configuring Network Load Balancing
Configuring Server Cluster

Labs

Configure Network Load Balancing

Configure Server Cluster

11. Maintaining Software by Using Microsoft Windows Server Update Services

Introduction to WSUS
Configuring WSUS on Client Computers
Configuring WSUS on Servers
Managing a Software Update Services

Labs

Install and Configure WSUS

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