70-642 R4: Configuring Windows Server 2008 Network Infrastructure

Demo - DNS Client
Lesson: How Does DNS Really Work
How a DNS Query Works
DNS Query Example
DNS Query Illustrated
How Caching Works
Demo - Name Resolution
Lesson: Deploying DNS Servers
DNS on DC Deployment
Using Server-Core for DNS Services
Making a Stand-Alone or Member-Server DNS
Configuring a Caching-only DNS Server
Configuring Server Properties
Demo - Configuring DNS
Lesson: DNS Configurable Options
Integrating WINS records into DNS
Aging and Scavenging
Demo - Global Names Zone
Lesson: Managing Different Types of DNS Zones
How to Create Zones
The Scope of AD Zone Replication
Creating and Using the Forward and/or Reverse Lookup Zone
Using Dynamic Updates
Exploring the Built-in Resource Records
Lesson: Configuring Zone Replication and Transfers
Configure a Zone Replication Scope for Active Directory
Choosing Zone Replication Scope
Creating Custom Application Directory Partitions
Zone Transfers
Implementing Stub Zones
Demo - Secondary Zone
Chapter 02 Review

Chapter 03 - Understanding IP Routing   1h 12m
Lesson: Routing Explained
Routing Overview
Routing Process
Tools Used to Verify Routing
Lesson: Router Communication Protocols
Routing Protocols
Routing and Remote Access
Demo - IP Routing
Demo - Routing Protocols
Chapter 03 Review

Chapter 04 - Connecting Windows to the LAN   1h 32m
Lesson: NAT Explained
NAT Concepts
Windows 2008 NAT Options
Lesson: Making NAT Work
Configuring ICS
Configuring NAT using RRAS
Troubleshooting NAT
Lesson: Remote Access to Other Networks
Remote Access Overview
Configuring VPN Connections

Configuring Dial-Up Server
Configuring the VPN Server
Other Options
Testing Connectivity
Demo - VPN Connections
Lesson: WiFi Basics
Wireless Networking Concepts
Wireless Networking Standards
Wireless Security Standards
Wireless Infrastructure
Authenticating Wireless with Windows Server 2008
Connecting to Wireless Networks
Best Practices
Demo - Wireless Network
Demo - Wireless Group Policy
Chapter 04 Review

Chapter 05 - Securing the Client, Network, and Communications   3h 5m
Lesson: Communication Security: IPSec
Explaining IPSec
IPSec Policies
Understanding Connection Security Rules
Security Associations
How IPSec Establishes Connections
What Authentication Methods can be used with IPSec
Lesson: Enforcing IPSec with Policies
Looking at the Predefined IPSec Policies
Using the IPSec Security Rule Wizard
Using the Connection Security Rule Wizard
Demo - IPSec
Lesson: Network Security with NAP
Concepts of NAP
System Health Agents and Validators
The NAP Process
Planning NAP Deployment
Installing and Configuring NAP
Lesson: Client Security with Windows Firewall
Why are Firewalls Important?
Outbound Filtering
Inbound Filtering
Firewall Scope
Using Group Policies
Authorizing Connections
Demo - Windows Firewall Inbound
Demo - Windows Firewall Outbound
Lesson: Other Security Solutions
Other Configurations
IPSec Rules
802.1x Configuration
Configuring DHCP
Configuring NAP Components
Configuring SHVs
Configuring Network Policies
Demo - Install NAP
Demo - NPS
Demo - SHV

Demo - Health Policy
Chapter 05 Review

Chapter 06 - Managing Files   1h 37m
Lesson: Working with File Security
NTFS Files Permissions
NTFS Permissions
Methods of Securing Files
Lesson: Server Role - File Services
The File Services Server Role
Using Quotas
Configuring Quotas
Lesson: Using DFS
Sharing Folders
DFS Overview
Installing DFS
Demo - DFS
Lesson: Using EFS
EFS
How to Encrypt a File/Folder
Sharing Encrypted Files
Configuring EFS Using GPS
Demo - File Security
Demo - EFS
Lesson: Performing a Backup and Restore
Shadow Copies
Managing Shadow Copies
Windows Server Backup
Recovery
Demo - Back Up
Chapter 06 Review

Chapter 07 - Monitoring Systems   1h 41m
Lesson: How to Install and Use Network Monitor
Installing Network Monitor
Analyze Network Data
Demo - Network Monitor
Lesson: Windows Performance and Reliability Monitoring
Performance Monitor
Reliability Monitor
Built-In Data Collector Sets
Demo - WRPM
Lesson: Looking at Event Logs
Event Forwarding Concepts
Lesson: Configuring Event Forwarding
How to Configure Event Forwarding
Configuring the Collecting Computer
Creating a Subscription
Configure Event Forwarding to use HTTPS
Demo - Monitoring Events
Chapter 07 Review

Chapter 08 - Managing Printers   37m
Lesson: Server Role: Print Services
Installing the Print Services Server Role
Installing Printers
Lesson: How to Share Printers
Sharing Printers
Printer Pooling
Printer Priority
Managing Internet Printing
Generating Notifications
Migrating Printers
Managing Printers with the CLI
Demo - Managing Printers
Demo - Web Printing
Chapter 08 Review

Chapter 09 - Securing Windows Through Updates   43m
Lesson: What is Windows Server Update Services
WSUS Overview
WSUS Architecture
WSUS Minimum Requirements
Lesson: Planning & Deploying the WSUS Installation
Planning for the WSUS Installation
Auditing Updates
Demo - Install WSUS
Lesson: Using Windows Server Update Services
WSUS
How to Troubleshoot Update Problems
How to Remove Updates
Chapter 09 Review
Course Closure

Total Duration: 15h 47m