

70-646 R3: Windows Server 2008 Administration

Course Introduction

5m

Course Introduction

Chapter 01 - Preparing for Windows 2008 Installation

30m

Lesson: Overview of Windows Server 2008 Deployment

Business Needs

Consolidation Benefits with Server 2008

High Availability

64-bit Systems Options

Virtualization Options

Any Issues With Compatibility

Lesson: Making a Deployment Plan for Windows 2008 Server

Document and study the Current Network Environment

Designing Server Deployments

Maintenance and Deployment Schedules

Lesson: Planning Migration

Creating a Migration Plan

Using the Upgrade Plan

What Can Delay Your Windows 2008 Server Installation?

Chapter 01 Review

Chapter 02 - Configuration Change Plan

37m

Lesson: Developing a Change Control Process

How Does the Change Control Process Work?

Create a Communication Plan

Classifying Change Requests

Approving the Change

The Emergency Change

Lesson: Developing Configuration Changes

Overview of Developing Configuration Changes

Analyzing the Change

The Testing Process

Have a Backup Plan - Rollback

Lesson: Reviewing Configuration Changes

Testing the Success of a Change

Analyzing the Success of a Change

Documentation Update

Chapter 02 Review

Chapter 03 - Preparing for Server 2008 Migration

1h 3m

Lesson: Server Migration

Making a Windows 2008 Server Deployment Plan

How Virtualization Helps

Planning for a Rollback

Migrating Data And Services

Lesson: How to Plan for the Server Decommissioning Process

Decommissioning

Considerations for Decommissioning a Server

Licensing

Lesson: Planning an Example of Commissioning a Windows Server 2008 File Server

Server Deployment Tools

Planning According to Policy
Migrating File Servers
Demo - Installation Part A
Demo - Installation Part B
Chapter 03 Review

Chapter 04A - Server Migration and Planning for Roles

1 h 9m

Lesson: Planning for Windows Server 2008 Hardware

How Windows Server 2008 Uses Process and Memory Resources
How to Choose either 32-Bit or 64-Bit Hardware
Guidelines for Combining Server Roles
Hardware Redundancy

Lesson: Planning for Windows Server 2008 Core

Why the Server Core?
Hardware Requirements for Windows Server 2008 Server Core
Demo - Role Consolidation
Demo - File Resource Manager

Lesson: Combining Windows Server 2008 Server Roles

What are Server Roles
Performance Implications of Combining Server Roles
Recommendations for Combining Servers
Options for Maintaining High Availability

Lesson: Planning for Windows Server 2008 File Servers

File Storage in Windows Server 2008
Recommendations for File Storage
High-Availability File Servers
Clustering Options for File Servers

Chapter 04B - Server Migration and Planning for Roles

25m

Lesson: Understanding Application Server Role Requirements

What Scenarios Require the Application Server Role
Preparing for Installation of the Application Server Role
Supporting Technologies for Applications
Compatibility

Lesson: Overview of the Application Server Role Components

Windows Workflow Foundation
Windows Presentation Foundation
Windows Communication Foundation

Lesson: Supporting the .NET Framework

How the .NET Framework is Used
.NET Versions
Chapter 04 Review

Chapter 05 - Distributed File System

42m

Lesson: What's Required for DFS

Needed Services for DFS
DFS Architecture

Lesson: Planning for High Availability in DFS

DFS Namespaces
DFS Replication
Data Storage
Comparing Domain and Stand-Alone DFS

Lesson: Managing DFS

DFS Management Tools
Delegating DFS Administration
Demo - DFS
Chapter 05 Review

Chapter 06 - Windows Server 2008 High Availability

31m

Lesson: Network Load Balancing

Features of Network Load Balancing
Changes in Network Load Balancing for Windows Server 2008
Troubleshooting Network Load Balancing

Lesson: Understanding Failover Clustering in Windows Server 2008

Features of Clustering in Windows Server 2008
Failover Clustering Enhancements in Windows Server 2008
Validating a Failover Clustering Solution in Windows Server 2008
Tools to Manage Failover Clustering in Windows Server 2008

Lesson: Creating Clusters in Windows Server 2008

Hardware Requirements for Failover Clustering
Planning Failover Clusters in Windows Server 2008
Managing Failover Clustering in Windows Server 2008
Chapter 06 Review

Chapter 07 - Monitoring Windows Server

1h 9m

Lesson: Setting Up Monitoring

Why Should You Monitor
Monitoring Options
Planning for Event Monitoring

Lesson: Measuring Performance Objects

Server Role Metrics
Key Performance Counters

Lesson: Calculating a Server Baseline

Key Hardware Components to Monitor
Common Performance Metrics
Analyzing Performance Trends
Planning for Future Capacity Requirements

Lesson: Which Monitoring Tools to Use

Windows Server 2008 Monitoring Tools
Reliability and Performance Monitor
Windows Performance Monitor
Third-Party Monitoring Tools

Lesson: Planning Notification Methods

What is Good for the Business
How Can I Be Notified?
When to Escalate
Demo - WRPM
Chapter 07 Review

Chapter 08 - Windows Server Security

1h 26m

Lesson: Designing a Multi-Layer Defense

Multi-Layer Defense Strategy
What Defense Layers Should Be Considered?

Lesson: Network-Based Security for Windows Server 2008

Network Security Terms
Options for Network Security
Recommendations for Implementing Windows Server 2008 Server Core
Demo - Security

Demo - Server Core Introduction

Lesson: Host-Based Security for Windows Server 2008

Assigning Administrative Permissions

Windows Server 2008 Firewall Configuration

Security Templates

Converting Security Configuration Wizard Settings to Security Templates

Chapter 08 Review

Chapter 09 - Windows Server Backup and Restore

1h 30m

Lesson: Backup Strategies with Windows Server 2008

Selecting Backup Software and Backup Operators

Planning Backup in Windows Server 2008

Backup Scheduling

Making the Data Retention Plan

Backing Up Encrypted Files and Virtual Machines

Factors Affecting Backup Policy

Storage and Security Considerations

Process for Selecting Backup Operators

Demo - Backup

Lesson: Planning a Server Restore Policy

Server Restore

Challenges of a Server Restore

Backup Plan Options

Change Management Considerations

Lesson: Verifying Restored Data

Restore Logs

Accessing Data After Restore

Security Analysis

Updating Backup Policy

Lesson: Planning an EFS Restore Policy

Planning for Restoring EFS Data

Requirements for EFS Recovery

Chapter 09 Review

Chapter 10 - Windows Server Maintenance Plan

51m

Lesson: Planning for Security Update Management

WSUS Deployment Considerations

WSUS Group Policy Settings

Obtaining Updates

Server Core Security Updates

Demo - Management Tasks

Lesson: Basic Windows Server 2008 Management Tasks

Windows Server 2008 Management Tasks

Tasks Most Servers Share

Frequency of Management Tasks

Lesson: Automating Windows Server 2008 Maintenance

Automation Requirements

Task Automation Tools

Tool Selection Process

Chapter 10 Review

Chapter 11 - Planning for Business Continuity

42m

Lesson: Planning for Business Continuity

Software Failure and the BIA
How Much of an Impact from Software Failure
Tracking Service Level Agreements
Creating Change Management Procedures
Typical Stages in a Troubleshooting Methodology

Lesson: Reviewing Core Operating System Components

Identifying Core Operating System Components
Identifying Additional Roles and Services
Server Applications

Lesson: Reviewing Log Files

Monitoring Log Files by Using Event Viewer
Monitoring Application Logs

Lesson: Evaluating Security Issues

Troubleshooting Group Policy Security Settings
Defense-in-Depth Components
Identifying Faults
Chapter 11 Review

Chapter 12 - Windows Server Troubleshooting

1h 2m

Lesson: Discovering Hardware Support Issues

Tools Used for Troubleshooting
Evaluating Hardware Devices

Lesson: Handling Device Driver Failures

Determining Drivers in Use
When to Escalate
Replacing Drivers

Lesson: Handling Hardware Component Failures

Documenting Vulnerable Hardware Components
Replacing Devices

Lesson: Determining the Scale of Network Issues

Business Impact of Network Failure
Scale of Failure
Service Level Agreements
Change Management Procedures
Interaction with Other Teams

Lesson: Name Resolution in Windows Server 2008

Domain Name System
Link-Local Multicast Name Resolution
Legacy Protocols

Lesson: Fixing IP Connectivity Issues

Which Versions of IP Are Being Used?
Resolving Logical Addressing Problems
Chapter 12 Review
Course Closure

Total Duration: 11hrs 43m