

70-643: Windows Server 2008 Applications Infrastructure

Course Overview

This course will teach students about deploying Windows in the Enterprise, working with Terminal Services, working with a Terminal Services Infrastructure, storage and high-availability, file and email services, working with web applications, web server management & security, collaboration with WSS, and working with Windows media.

Course Introduction

8m

Course Introduction

Module 01 - Deploying Windows in the Enterprise

2h 31m

Lesson 1: How to Deploy Windows in the 2008 Server Environment

Basics of Windows Deployment

Tools of the Planning Phase

Tools of the Building Phase

Tools of the Deployment Phase

Basics of Windows Deployment, Cont.

Windows PE

Image X

Windows SIM

Sysprep

WIM: A Closer Look

Ways to Deploy Windows

Manual Deployment

Lite & Zero-Touch Deployment

Lesson 2: Working with WDS

Looking at Windows Deployment Services

WDS Components

The WDS Role

Initial WDS Configuration

WDS Server Properties

Image Capturing

How Deployment Works

What Happens in the Background

Demo - Configuring WDS

Demo - Install Boot Image

Lesson 3: Virtual Machine Deployment

Understanding What a VM Is

Prior Virtualization Options

Hyper-V

Hyper-V Disk Types

Hyper-V Networks

Demo - Install Hyper-V

Lesson 4: Putting in an Activation Infrastructure

Windows Activation Types
The MAK Model
KMS Activation
Module 01 Review

Module 02 - Working with Terminal Services

1h 14m

Lesson 1: Terminal Server Setup and Deployment
Basics of Terminal Services
TS Features
Remote Desktop
How to Install TS
TS License Options
Preparing the Terminal Server
Installing Application on the TS
Demo - Installing Terminal Services
Demo - TS Licensing
Lesson 2: Working with Terminal Services
Configuration Console
RDP Connection Properties
More on the TS General Tab
Using Group Policy with TS
Demo - Terminal Services Manager
Module 02 Review

Module 03 - Working with a Terminal Services Infrastructure

1h 26m

Lesson 1: Using Terminal Server Clients
Working with the TS Client
RDP as a TS Client
Using GPO to Configure the Client
Using TS User Profiles
Setting Up User Connections
TSM Properties
Managing Connected Users
Common User Management Tasks
Working with Client Resources
Lesson 2: Introducing the Terminal Services Gateway
What is the TS Gateway?
Example Design of the TS Gateway
TS Gateway Installation and Initial Configuration
The Installation Options
Demo - Terminal Services Infrastructure
Lesson 3: Application Publishing, Using the TS RemoteApp
Using TS RemoteApp to Publish an Application
Advantages of Using RemoteApp
Hosting a RemoteApp on a Server
Publishing RemoteApps
Using TS Web Access to Deploy a RemoteApp
Distributing RemoteApps with RDP
Using the Windows Installer and Remote Application for Distribution
Demo – RemoteApp

Demo – RDPFile
Module 03 Review

Module 04 - Storage and High-Availability

1h 20m

Lesson 1: Server Storage Options and Setup
Overview of Server Storage Options
Managing Storage
Using Diskmgmt.msc
Advanced Volume Features
Demo - Working with Disk Sets
Lesson 2: Server Clusters
High-Availability Options
More About Load Balancing
High-Availability
Installing and Configuring High-Availability
Demo - NLB
Module 04 Review

Module 05 - File and Email Services

1h 29m

Lesson 1: Working with FTP
Publishing Services
FTP Publishing Service
FTP Security
Other FTP Settings
Working with FTP 7
FTP 7 Configuration Files
FTP User Security
More on User Isolation
Securing Network Access to/from FTP
FTP Firewall
Site Settings
Logs - Unsung Hero of Security
Directory Browsing
Demo - Configuring FTP
Demo - Working with FTP
Lesson 2: Working with SMTP
The SMTP Feature
Working with SMTP Services
SMTP Server Settings
Securing SMTP
SMTP Messages Options
Delivery Properties
Management Permission
Monitoring
Using SMTP
Accessing Email with ASP.NET
Demo - Installing SMTP
Module 05 Review

Module 06 - Working with Web Applications

2h 41m

Lesson 1: Installing IIS
IIS Security
What's New in IIS 7.0
IIS Components and Options
The Application Server Role on Windows 2008 Server
Features of the Application Role
The IIS 7.0 Role on Windows 2008 Server
IIS Default Role Services
Review of the Role Services
Installing the IIS Role
Post IIS Installation Notes
What is the WSRM
Demo - Installing IIS
Lesson 2: Configuring IIS
Management Tools for IIS
IIS Management Console
Working with Web Sites
Sites and Bindings
Your Default Site
New Web Sites
Limiting Sites
Site Logging
How Do Web Applications Fit Into IIS?
Application Pools
Virtual Directories
Working with the CLI
The appcmd
More Command Line Options
Working with the Web Server Config Files
ApplicationHost.config
Web.config
Operations on Web Sites and Applications
Centralized Configuration
Migrating from IIS 6.0
Demo - Creating Web Sites
Demo - Backup IIS
Module 06 Review

Module 07 - Web Server Management & Security

2h 5m

Lesson 1: Working with IIS Security
What Accounts Were Created with IIS Installation?
File System Permissions
Working with IIS Administration Features
What are Request Handlers
Configuring Handlers
Handler Security
Handler Mappings
More Handler Security
Demo - Managing IIS Security

Demo - Managed Handler Mappings
Lesson 2: Securing Access to Web Services
Working with IIS Authentication
Types of Authentication
Authentication Requirements
Authentication Levels
URL Authorization Rules
Configuring Server Certificates
Getting the Certificate
Other Types of Certificates
Confirming the Certificate
Import and Export of Certificates
Encryption
More Security Options
.NET Trust Levels
Implementing .NET Trust Levels
Demo - Securing Web Services
Demo - Configuring Server Certificates
Module 07 Review

Module 08 - Collaboration with WSS

1h 7m

Lesson 1: Working with Windows SharePoint Services
What is WSS?
WSS Deployment Options
WSS Access
Options for Deployment
Demo - Installing SharePoint
WSS Configuration Wizard
Confirming Proper WSS Installation
Accessing WSS via the Web Client
Administering WSS from the Web Browser
The Administration Page
Managing SharePoint
Demo - Working with SharePoint
WSS Security
E-mail Options
WSS Logging
Usage Analysis
WSS Job Management
Administration Automation
Disaster Recovery for WSS
Working with WSS Sites
Site Collection Options
Quota Options
Managing the Site Settings
Working with Web Applications
Web Application Settings
Web Application Security
Using Application Templates
Module 08 Review

Module 09 - Working with Windows Media

1h

Lesson 1: Windows Media Services

How to Configure Windows Media Service

Management Tools for Windows Media

Working with Publishing Points

Add Publishing Point Wizard

Administration of Publishing Points

Monitoring Publishing Points

Publishing Point Source Settings

Announcements

The Create Wrapper Wizard

The Announcement Wizard

Settings for the Publishing Point

Advertising Settings

Securing Windows Media Services

Cache/Proxy Features

Cache Settings

Proxy Settings

Monitoring Proxy/Cache Servers

Protecting Content

Demo - Installing Media Services

Demo - Making a Publishing Point

Module 09 Review

Course Closure

Total Duration: 15h