

Installing and Configuring Windows 7 Client (MS6292)

Length: 3 Days

Description

This course is intended for IT professionals who are interested in expanding their knowledge base and technical skills about Windows 7 Client. Students learn how to install, upgrade, and migrate to Windows 7 client. Students then configure Windows 7 client for network connectivity, security, maintenance, and mobile computing. This course helps students prepare for the Exam 70-680, TS: Windows 7, Configuring.

Audience

This course is intended for IT professionals who are interested in expanding their knowledge base and technical skills about Windows 7 Client, acquiring deep technical knowledge of Windows 7, learning the details of Windows 7 technologies, and focusing on the "how to" associated with Windows 7 technologies.

Prerequisites

Before attending this course, students must have:

- Experience installing PC hardware and devices.
- Basic understanding of TCP/IP and networking concepts.
- Basic Windows and Active Directory knowledge.
- The skills to map network file shares.
- Experience working from a command prompt.
- Basic knowledge of the fundamentals of applications. For example, how client computer applications communicate with the server.
- Basic understanding of security concepts such as authentication and authorization.
- An understanding of the fundamental principles of using printers.

Topics

MODULE 1: INSTALLING, UPGRADING, AND MIGRATING TO WINDOWS 7

This module explains how to install, upgrade and migrate to Windows 7. It also describes the key features, editions, and hardware requirements of Windows 7.

Lessons

- Preparing to Install Windows 7
- Performing a Clean Installation of Windows 7

- Upgrading and Migrating to Windows 7
- Performing Image-based Installation of Windows 7
- Configuring Application Compatibility

Lab: Installing and Configuring Windows 7

- Migrating Settings by using Windows Easy Transfer



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- Configuring a Reference Image of Windows 7

MODULE 2: CONFIGURING DISKS AND DEVICE DRIVERS

This module examines how to configure disks, partitions, volumes, and device drivers to enable Windows 7 to function as desired.

Lessons

- Partitioning Disks in Windows 7
- Managing Disk Volumes
- Maintaining Disks in Windows 7
- Installing and Configuring Device Drivers

Lab: Configuring Disks and Device Drivers

- Configuring Disks
- Configuring Disk Quotas (Optional)
- Updating a Device Driver

MODULE 3: CONFIGURING FILE ACCESS AND PRINTERS ON WINDOWS 7 CLIENT COMPUTERS

This module explains how to manage access to shared folders and printers on a computer running Windows 7. Specifically, it describes how to share and secure folders, configure folder compression, and how to install, configure, and administer printing.

Lessons

- Overview of Authentication and Authorization
- Managing File Access in Windows 7
- Managing Shared Folders
- Configuring File Compression
- Managing Printing

Lab: Configuring File Access and Printers on Windows 7 Client Computers

- Create and Configure a Public Shared Folder for all Users
- Configuring Shared Access to Files for Specific Users
- Creating and Sharing a Printer

MODULE 4: CONFIGURING NETWORK CONNECTIVITY

This module explains both IPv4 and IPv6 network connectivity. It also describes how to implement automatic IP Address Allocation and troubleshoot network connectivity.

Lessons

- Configuring IPv4 Network Connectivity
- Configuring IPv6 Network Connectivity
- Implementing Automatic IP Address Allocation
- Overview of Name Resolution
- Troubleshooting Network Issues

Lab: Configuring Network Connectivity

- Configuring IPv4 Addressing
- Configuring IPv6 Addressing
- Troubleshooting Network Connectivity

MODULE 5: CONFIGURING WIRELESS NETWORK CONNECTIONS

This module describes key wireless network technologies and how to configure wireless network components and the Windows 7 elements that are necessary to access wireless networks.

Lessons

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- Overview of Wireless Networks
- Configuring a Wireless Network

Lab: Configuring Wireless Network Connections

- Determining the appropriate configuration for a wireless network
- Troubleshooting Wireless Connectivity

MODULE 6: SECURING WINDOWS 7 DESKTOPS

This module describes how to make a Windows 7 computer more secure while ensuring usability is not sacrificed in the process. It describes Windows Firewall, User Account Control, Windows Defender, and Security in Internet Explorer 8.

Lessons

- Overview of Security Management in Windows 7
- Securing a Windows 7 Client Computer by Using Local Security Policy Settings
- Securing Data by Using EFS and BitLocker
- Configuring Application Restrictions
- Configuring User Account Control
- Configuring Windows Firewall
- Configuring Security Settings in Internet Explorer 8
- Configuring Windows Defender

Lab: Configuring UAC, Local Security Policies, EFS, and AppLocker

- Using Action Center
- Configuring Local Security Policies
- Encrypting Data
- Configuring AppLocker

Lab: Configuring Windows Firewall, Internet Explorer 8 Security Settings, and Windows Defender

- Configuring Windows Firewall
- Configuring Internet Explorer 8 Security
- Configuring Windows Defender

MODULE 7: OPTIMIZING AND MAINTAINING WINDOWS 7 CLIENT COMPUTERS

This module describes how to use the monitoring and configuration tools to obtain information about Windows 7 performance and how to troubleshoot performance and reliability problems.

Lessons

- Maintaining Performance by Using the Windows 7 Performance Tools
- Maintaining Reliability by Using the Windows 7 Diagnostic Tools
- Backing Up and Restoring Data by Using Windows Backup
- Restoring a Windows 7 System by Using System Restore Points
- Configuring Windows Update

Lab: Optimizing and Maintaining Windows 7 Client Computers

- Monitoring System Performance
- Backing Up and Restoring Data
- Configuring System Restore Points
- Configuring Windows Update

MODULE 8: CONFIGURING MOBILE COMPUTING AND REMOTE ACCESS IN WINDOWS 7

This module explains how to configure mobile devices and remote access. It also



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discusses DirectAccess and BranchCache which are new for Windows 7.

Lessons

- Configuring Mobile Computer and Device Settings
- Configuring Remote Desktop and Remote Assistance for Remote Access
- Configuring DirectAccess for Remote Access
- Configuring BranchCache for Remote Access

Lab: Configuring Mobile Computing and Remote Access in Windows 7

- Creating a Sync Partnership
- Configuring Power Options
- Enabling Remote Desktop
- Enabling BranchCache