Working with Operating Systems

Chapter 12

Episode: **The Task Manager**

Objective(s):

Core 2: 1.3 Given a scenario, use features and tools of the Microsoft Windows 10 operating system (OS).

Core 2: 1.6 Given a scenario, configure Microsoft Windows networking features on a client/desktop.

Episode Description

The Task Manager has lots of information about services, processes, applications, and users. It gives information to help you monitor, manage, and control what's running in order to maximize the performance of your machine.

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Key Terms

- 0:16 - Objective term - Services
- 0:31 - Objective term - Processes
- 0:41 - Objective term - User
- 0:57 - Objective term - Task Manager
- 1:20 - Objective term - Processes
- 2:02 - Objective term - Performance
- 2:40 - App History

Key Terms

- 2:47 - Objective term - Metered connections and ISP limitations
- 3:20 - Objective term - Startup
- 5:07 - Objective term - Users
- 4:35 - Details
- 5:14 - Objective term - Services

Quick Review

- Services are tasks handled by Windows and needed for the operating system to function
- Processes are programs or applications that a user initiates or runs
- Users are the individual accounts with access to a specific file, folder, logon, or application

Episode: **The Control Panel**

Objective(s): Core 2: 1.4 Given a scenario, use the appropriate Microsoft Windows 10 Control Panel utility.

Episode Description

The Control Panel is a large collection of applets that are used for updating system settings, dealing with hardware, and troubleshooting. This episode explores the basics of the Control Panel in Windows.

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CompTIA

Key Terms

- 0:16 - Applets
- 0:28 - Applet run files use the .cpl extension
- 1:05 - Objective term - Administrative Tools
- 1:45 - Objective term - Devices and Printers
- 2:19 - Objective term - Ease of Access
- 2:49 - Objective term - Programs and Features
- 3:01 - appwiz.cpl

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Mike Meyers and Steve Nicholson

Key Terms

- 3:38 - Objective term - Indexing Options
- 4:07 - Objective term - Internet Options
- 4:31 - Objective term - Sound
- 4:52 - Objective term - Network and Sharing Center
- 5:27 - Objective term - System
- 6:02 - Objective term - Mail

Key Terms

- 6:17 - Objective term - User Accounts
- 6:53 - Objective term - Windows Defender Firewall
- 7:40 - Objective term - Power Options
- 7:52 - Objective term - Fast startup
- 8:44 - Objective term - Universal Serial Bus (USB) selective suspend

Microsoft .cpl List

- Access.cpl - Accessibility properties
- Appwiz.cpl - Programs and Features to add/remove programs
- Desk.cpl - Display properties
- FindFast.cpl - FindFast (included with Microsoft Office for Windows 95)
- Inetcpl.cpl - Internet properties
- Mmsys.cpl - Multimedia properties

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Microsoft .cpl List

- Intl.cpl - Regional Settings properties
- Joy.cpl - Joystick properties
- Main.cpl - Mouse, Fonts, Keyboard, and Printers properties
- Mlcfg32.cpl - Microsoft Exchange or Windows Messaging properties
- Netcpl.cpl - Network properties
- Odbccp32.cpl - Data Sources

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Microsoft .cpl List

- Password.cpl - Password properties
- Sticpl.cpl - Scanners and Cameras properties
- Sysdm.cpl - System properties and Add New Hardware wizard
- Themes.cpl - Desktop Themes
- TimeDate.cpl - Date/Time properties
- Wgpocpl.cpl - Microsoft Mail Post Office

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God Mode

- Enable by creating a folder on your Windows desktop and copy and paste the following:
  - God Mode.{ED7BA470-8E54-465E-825C-99712043E01C}

Quick Review

- The Windows Control Panel enables access to common configurations and tools in a centralized area
- Applets are the sections accessed via shortcuts within Control Panel
- Many applets within the Windows Control Panel have corresponding .cpl extensions that you can use to access the tools directly

Episode: **Windows Settings**

Objective(s): Core 2: 1.5 Given a scenario, use the appropriate Windows settings.

Episode Description

Windows Settings has a number of options to change, update, and customize the OS. You can find settings for System, Devices, Network and Internet, Accounts, Gaming, and more.

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Key Terms

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- 0:29 - Update & Security in Windows 10 has been changed to Windows Update in Windows 11
- 0:33 - Privacy in Windows 10 has been changed to Privacy & Security in Windows 11
- 0:53 - Objective term - System
- 1:12 - Objective term - Bluetooth & devices
- 1:30 - Objective term - Network & internet

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Key Terms

- 2:05 - Objective term - Personalization
- 2:22 - Objective term - Apps
- 2:52 - Objective term - Accounts
- 3:19 - Objective term - Time & language
- 3:35 - Objective term - Gaming
- 4:16 - Accessibility
- 4:40 - Objective term - Privacy & security
- 5:07 - Windows Update

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Quick Review

- Windows Settings includes many options for configuring your operating system
- Windows Settings in Windows 10 vs. 11 is pretty similar, only a few names and interfaces have changes

Episode: **MMC and Additional Tools**

Objective(s):
Core 2: 1.3 Given a scenario, use features and tools of the Microsoft Windows 10 operating system (OS).

Core 2: 3.3 Given a scenario, use best practice procedures for malware removal.

Episode Description

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Windows is all about customization, and that flexibility extends to the administration of the machine as well. With the Microsoft Management Console (MMC), we are able to create specific templates that include only the needed administrative tools for the machine or task at hand. Let's get familiar with MMC and create our own custom framework for managing our PC.

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Key Terms

- 0:16 - Objective term - Microsoft Management Console (MMC)
- 1:04 - Objective term - System Information (msinfo32.exe)
- 1:51 - Objective term - Resource Monitor (resmon.exe)
- 2:24 - Objective term - System Configuration (msconfig.exe)
- 3:01 - Objective term - Safe Mode

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Key Terms

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- 3:39 - Objective term - Access Microsoft Management Console (MMC) by searching for "mmc"
- 3:57 - Objective term - Snap-ins
- 4:31 - Objective term - Disk Management (diskmgmt.msc)
- 5:18 - Objective term - Device Manager (devmgmt.msc)
- 5:31 - Objective term - Certificate Manager (certmgr.msc)

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Key Terms

- 5:45 - Objective term - Local Users and Groups (lusrmgr.msc)
- 6:01 - Objective term - Performance Monitor (perfmon.msc)
- 6:09 - Objective term - Group Policy Editor (gpedit.msc)
- 6:25 - Objective term - Task Scheduler (taskschd.msc)

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Quick Review

- The Microsoft Management Console (MMC) enables you to create custom toolsets for administering your machine efficiently
- A 'snap-in' is the term given to the specific tool shortcut added within the MMC
- Customized MMC setups can be saved for quick access

Episode: **What Is the Registry?**

Objective(s): Core 2: 1.3 Given a scenario, use features and tools of the Microsoft Windows 10 operating system (OS).

Episode Description

The Registry is the primary repository for everything about your Windows system. The Registry is rarely accessed directly, but, when necessary, we use the Registry Editor utility to do so.

Key Terms

- 0:44 - Objective term - The Registry stores Windows settings
- 1:52 - Objective term - Registry Editor (regedit.exe)
- 5:36 - HKEY_LOCAL_MACHINE

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Quick Review

- The Registry is the primary database for every Windows system
- We use the regedit (Registry Editor) utility to manually edit the Registry
- The Registry has five root keys into which all data is organized

Episode: **macOS Core Tools**

Objective(s):
Core 1: 3.4 Given a scenario, troubleshoot common mobile OS and application issues.

Core 2: 1.10 Identify common features and tools of the macOS/desktop OS.

Core 2: 3.4 Given a scenario, troubleshoot common mobile OS and application issues.

Episode Description

macOS has a number of tools you can use to configure, secure, and streamline your operating system. This episode covers the most important tools you'll need to know for any macOS device.

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Key Terms

- 0:28 - Objective term - System Preferences
- 0:49 - Settings pane
- 1:15 - Search box
- 1:28 - Objective term - Displays
- 2:19 - Objective term - Networks
- 2:57 - Objective term - Printers and Scanners

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CompTIA

Key Terms

- 3:35 - Objective term - Security and Privacy
- 4:23 - Objective term - Accessibility
- 5:13 - Objective term - Apple ID
- 5:28 - Objective term - Apple ID enables syncing with things such as Photos, iCloud Mail, Calendar, Contacts, etc.
- 5:58 - Objective term - Apple ID corporate restrictions

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Key Terms

- 6:20 - Objective term - Apple Business Manager and Mobile Device Management (MDM)
- 6:31 - Objective term - Spotlight
- 7:00 - Objective term - Keychain
- 7:46 - AirDrop
- 8:28 - Objective term - FileVault
- 9:46 - Objective term - Syslog

CompTIA

Quick Review

- Most of the main system settings can be found under System Preferences
- Security & Privacy includes many tools to secure your macOS device
- Apple ID enables syncing with things such as Photos, iCloud Mail, Calendar, Contacts, etc.