Lab 11A: Configuring Power Options

Objectives

After completing this lab, you will be able to:

- Create a custom power scheme.

- Enable hibernation support.

Prerequisites

Before working on this lab, you must have:

- Completed Lab 1C Upgrading Windows 98 to Windows XP Professional.

- A computer running Microsoft® Windows® XP Professional operating in a workgroup.

For More Information

Scenario

Your supervisor has asked you to demonstrate how to create a custom power scheme with hibernation support. The supervisor has also asked you to demonstrate hibernation.

Estimated time to complete this lab: 15 minutes

Exercise 1
Configuring Power Options

Goal

In this exercise, you will create a custom power scheme and enable hibernation. You will start Notepad, Calculator, Pinball, and Disk Defragmenter and then hibernate the computer manually. When you bring the computer out of hibernation, you will verify the effects of hibernation on an application that accesses the hard drive.

Tasks	Detailed Steps
1. Log on to the local computer as Administrator with a password of **password**. Create a custom power scheme called Mobile User. Then on the Mobile User power scheme, enable support for hibernation.	**a.** Log on to the local computer as Administrator with a password of **password**. **b.** In Control Panel: If you are in **Classic View Control Panel** double-click **Power Options**. –Or– If you are in **Category View Control Panel**, click **Performance and Maintenance**, and then click **Power Options**. **c.** In the **Power Options Properties** dialog box, on the **Hibernate** tab, verify **Enable hibernation** is selected.
❓ How much free disk space is required on your computer to support hibernation? How much RAM does your computer have? Is the amount of free space related to the amount of RAM that is available? **Disk space required to support hibernation: Answers will vary. Amount of RAM: Answers will vary. The amount of space for hibernation and the amount of RAM should be the same. To support hibernation, the amount of disk space on the computer needs to be equivalent to the amount of RAM in the computer, because hibernation saves the desktop to the hard drive.**	
1. *(continued)*	**d.** On the **Advanced** tab, select the **Always show icon on the taskbar** check box. **e.** On the **Power Schemes** tab, click **Save As**. **f.** In the **Save Scheme** dialog box, type **Mobile User** and then click **OK**. **g.** Under **Settings for Mobile User power scheme**, specify to turn off the monitor after 10 minutes and turn off the hard disks after 15 minutes. **h.** Click **OK** to close the **Power Options Properties** dialog box, and then close Control Panel.

Tasks	Detailed Steps
2. Start Notepad, Calculator, and run Disk Defragmenter on the C: partition. Then immediately hibernate the computer. After the computer is turned off, restart the computer, and then verify that all of the applications are as you left them.	**a.** Click **Start**, and then click **Run**. **b.** In the **Open** box, type **calc** and then click **OK**. **c.** Calculate the following (79 * 36.04)= and then leave Calculator open. **d.** Click **Start**, and then click **Run**. **e.** In the **Open** box, type **notepad** and then click **OK**. **f.** In the Notepad window, type **Windows XP Professional Hibernation support** and then leave Notepad open. **g.** Click **Start**, click **All Programs**, click **Accessories**, click **System Tools**, and then click **Disk Defragmenter**. **h.** Click the **C:** partition, and then on the **Action** menu, click **Analyze**. **i.** While Disk Defragmenter is running, click **Start**, and then click **Shut Down**. **j.** In the **Shut Down Windows** dialog box, click **Hibernate**, and then click **OK**. *Notice that the screen shows that the computer is hibernating.* **k.** Turn off the computer if necessary, and then restart the computer. *Notice that the **Start Up Screen** message appears, indicating that Windows is resuming.* **l.** Unlock the computer, and then verify that Calculator, Notepad, Pinball, and Disk Defragmenter are still running. **m.** Close all applications and windows, and then log off.