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Lab - Manage Virtual Memory

Introduction

In this lab, you will customize virtual memory settings.

Recommended Equipment

- A computer with Windows installed with two or more partitions

Note: At least 2GB of free space is recommended on the second partition.

Instructions

Step 1: Open System Properties

a. Navigate to the **Control Panel**. In the Small icons view, click **System**.

b. In the System window, click Advanced system settings.

c. In the **System Properties** window, select the **Advanced** tab and click **Settings** under the Performance heading.

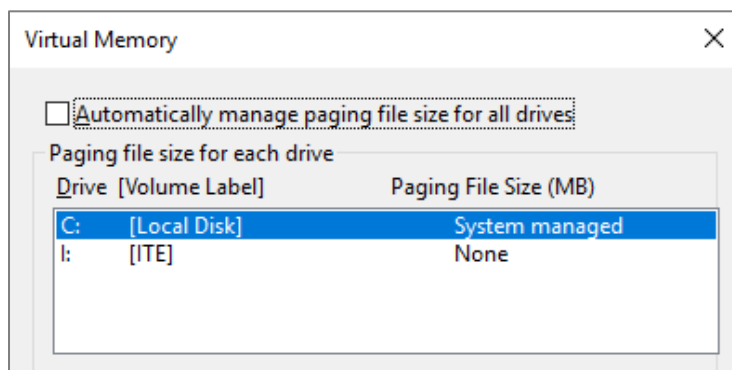d. In the **Performance Options** window, click the **Advanced** tab.

Question:

What is the current size of the virtual memory (paging file)?

Type your answers here.

Step 2: Make virtual memory changes.

a. Click **Change** in the Virtual memory area to open the **Virtual Memory** window.

b. Remove the check mark from Automatically manage paging file size for all drives.

Question:

What Drive [Volume Label] contains the paging file?

Type your answers here.

c. Choose the **I:** drive. Select the **Custom size:** radio button.

Note: Your drive letter and volume may be different than the example. Replace **I:** with the drive letter for your second partition on your PC.

If there is only one partition on the hard drive, use **Disk Management** to create a second partition with at least 2GB before continuing with this lab.

Question:

What is the recommended paging file size for all drives?

Type your answers here.

d.   Enter a number smaller than the recommended file size in the **Initial size (MB):** field. Enter a number that is larger than the Initial size but smaller than the recommended file size in the **Maximum size (MB):** field. Click **Set**.

Selected drive:	I: [ITE]
Space available:	2026 MB

◉ Custom size:

Initial size (MB): `1000`

Maximum size (MB): `1150`

○ System managed size

○ No paging file   Set

Total paging file size for all drives

Minimum allowed:	16 MB
Recommended:	1151 MB
Currently allocated:	640 MB

e.   Select the **C:** drive. Select the **No paging file** radio button, and click **Set**.

f.   The System Properties warning message displays. Click **Yes** to continue.

g.   Click **OK** in the **Virtual Memory** window to accept the new virtual memory settings.

h.   Click OK in the Performance Options and System Properties windows.

Step 3: Navigate back to the Virtual Memory window to verify changes.

a.   Navigate to the **System Properties** window. (**Control Panel > System >Advanced system settings**). Select the **Advanced** tab and click **Settings** in the Performance area.

b.   In the **Performance Options** window, select the **Advanced** tab and click **Change**.

c.   The **Virtual Memory** window opens displaying the new paging file information. Verify your changes.

Question:

What Drive [Volume Label] contains the paging file?

Type your answers here.

Step 4: Reset the virtual memory back to the original settings.

a.   Select drive C: [Local Disk] > click System managed size > click Set.

b.   Select **I:** > click **No paging file** > click **Set**.

c.   Check Automatically manage paging file size for all drives, and then click OK.

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d. The **System Properties** window opens informing you that a restart is required before changes will take effect. Click **OK**.

e. Click **OK** to close the **Performance Options** window. Click **OK** to close the System Properties window.

f.   The warning message displays: You must restart your computer to apply these changes. Click **Restart Now**.

Reflection Questions

Why would you ever change the default virtual memory page file settings in Windows?

Type your answers here.

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