IT Essentials 5.0

5.3.2.16 Lab - Managing Virtual Memory in Windows 7 Introduction

Print and complete this lab.

In this lab, you will customize Virtual Memory settings.

Recommended Equipment

- A computer with Windows 7 installed
- The hard drive must have two or more partitions

Step 1

Click Start > right-click Computer > Properties > Advanced system settings.



The "System Properties" window opens.



Select the **Advanced** tab and then click **Settings** in the "Performance" area.

Step 2

The "Performance Options" window opens.

sual Effects	Advanced	Data Executio	on Prevention	
Processor s	scheduling			
Choose ho	w to allocate	processor reso	ources.	
Adjust for	best perform	ance of:		
Program	ns	Backgrou	nd services	
Virtual mem	nory			
A paging fi if it were R	le is an area AM.	on the hard dis	k that Windows uses	s as
Total pagin	ig file size fo	r all drives:	3071 MB	
			Change	
				45
		OK	Canad	aak

Click the **Advanced** tab.

What is the current size of the Virtual Memory (paging file)?

Click **Change** in the "Virtual memory" area.

The "Virtual Memory" window opens.

Drive [Volume Label]	Paging File Size (MB)
C: [Local DIsk]	System managed
F: [New Volume]	None
G: [New Volume] H:	None
Selected drive:	C: [Local DIsk]
Oustom sizer	
Initial size (MB);	
Maximum size (MB);	
System managed s	size
No paging file	Set
Total paging file size f	for all drives
Minimum allowed:	16 MB
Recommended:	4606 MB
Currently allocated:	3071 MB

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

Paging file size for eac	ch drive		
Drive [Volume Label]	Pa	ging File Si	ze (MB)
C: [Local DIsk]		System	managed
F: [New Volume] G: [New Volume] H:		None None None	
Selected drive:	E:		
Space available:	4947 MB		
Oustom size:			
Initial size (MB):	2606		
Maximum size (MB):	3606		
System managed s	size		
No paging file			Set
Total paging file size f	or all drives		- 0
Minimum allowed:	16 MB		
Recommended:	4606 MB		
Currently allocated:	3071 MB		

What Drive or [Volume Label] contains the paging file?

Choose the E: drive.

Select the **Custom size:** radio button.

Look at the "Recommended" size in the "Total paging file size for all drives" section of the "Virtual Memory" window.

Type in a number smaller than the recommended file size in the Initial size (MB): field.

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

Click Set.

Drive [Volume Label]	Pagir	ng File Size (MB)	
C: [Local DIsk]		System managed	d
F: [New Volume] G: [New Volume] H:		None None None	
Selected drive: Space available:	C: [Local DIsk 60809 MB]	
Custom size:			
Initial size (MB):	2606		
Maximum size (MB):	3606		
System managed s	size	_	
No paging file		Se	et 🔓
Total paging file size f	for all drives		
Minimum allowed:	16 MB		
Recommended:	4606 MB		
Currently allocated:	3071 MB		

Select the C: drive.

Select the **No paging file** radio button, and then click **Set**. The "System Properties" warning message appears.



Click Yes.

Click **OK** to accept the new virtual memory settings.

Drive [Volume Label]	Paging File Size (MB)
C: [Local DIsk]	None
E: E: New Volume1	2606 - 3606
G: [New Volume]	None
H:	None
Selected drive:	C: [Local DIsk]
Space available:	60809 MB
Custom size:	
Initial size (MB):	
Maximum size (MB):	
System managed s	size
No paging file	Set
otal paging file size f	for all drives
Minimum allowed:	16 MB
Recommended:	4606 MB
Currently allocated:	2071 MR

The "Performance Options" window re-appears, click OK.



Click OK.

The "System Properties" message window appears.



Click OK.

Step 3

Navigate to and open the "Virtual Memory" window.

Paging file size for each	ch drive Baging File Size (MP)
	None
E: F: [New Volume] G: [New Volume] H:	2606 - 3606 None None None
Selected drive: Space available:	C: [Local DIsk] 60809 MB
Custom size:	
Initial size (MB):	
Maximum size (MB):	
System managed s	size
No paging file	Set
Total paging file size f	for all drives
Minimum allowed:	16 MB
Recommended:	4606 MB
Currently allocated:	5677 MB

What Drive or [Volume Label] contains the paging file?

Click Cancel to close all open windows.

Step 4

Reset the virtual memory back to the original settings.

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

Next select drive E: > No paging file > Set.

Add the check mark to Automatically manage paging file size for all drives, and then click OK.

Drive [Volume Label]	Paging File Size (MB)
C: [Local DIsk] E: F: [New Volume] G: [New Volume] H:	None None None None None
Selected drive: Space available:	C: [Local DIsk] 60809 MB
Custom size: Initial size (MB):	
Maximum size (MB):	
System managed s	ize
No paging file	Set
Total paging file size fo	or all drives
Minimum allowed: Recommended: Currently allocated:	16 MB 4606 MB 5677 MB

The "System Properties" restart warning message appears.

Click OK.



Click **OK** to close the following windows: Performance Options and System Properties.

The "You must restart your computer to apply these changes" message appears, click **Restart Now**.

Microsoft Windows	x
You must restart your computer to apply changes	y these
Before restarting, save any open files and close all pr	ograms.
Restart Now Restart	art Later