## IT Essentials 5.0

# 5.3.1.5 Lab - Task Manager (Managing Processes) in Windows 7

## Introduction

Print and complete this lab.

In this lab, you will explore Task Manager and manage processes from within Task Manager.

## **Recommended Equipment**

The following equipment is required for this exercise:

• A computer running Windows 7

### Step 1

Log on to Windows as an administrator.

Open a browser and a folder.

Click on the desktop and press Ctrl-Alt-Delete > Start Task Manager > Applications tab.

💐 Windows	Task Manag	ger				
File Option	s View	Windows	Help			
Applications	Processes	Services	Performance	Netwo	orking	Users
Task		^			Statu	IS
Cisco Local I Raver	- Internal Sit Disk (C:) I Project	es WebEx I	Enterprise Site	: - Wi	Runn Runn	ing ing
		End Task	Switch	h To	New	Task
rocesses: 52	CPU	Usage: 2%	Ph	ysical N	lemor	y: 26%

Select the open browser and then click Switch To.

What happened to the browser?

Bring Task Manager to the front of the desktop.

pplications	Processes	Services	Performance	Netwo	orking	Users
Task		^			Statu	IS
Cisco	- Internal Sit Disk (C:) n Project	es WebEx I	Enterprise Site	- Wi	Runn Runn	ing ing
		End Task	Switch	То	New	Task

#### Click New Task.

The "Create New Task" window opens.

🖅 Create	e New Task
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	notepad
	OK Cancel Browse

In the Open field type Notepad and then click OK.

What happens?

Navigate back to Windows Task Manager.

🜉 Windows Task	Manager			
File Options	View Windows	Help		
Applications Pro	cesses Services	Performance	Networking	Users
Task	*		Statu	
Cisco - Int	ernal Sites WebEx E (C:) iect	Enterprise Site -	·Wi Runn Runn Runn	ing ing ing
Untitled - I	Notepad		Runn	ing
	End Task	Switch	ToNew	Task
Processes: 53	CPU Usage: 0%	Phy	sical Memor	y: 26%

Select Notepad and then click End Task.

What happens?

# Step 2

Click the Services tab.

pplications Proc	esses	Services Performance	e Networking	g Users	
Name	PID	Description	Status	Group	-
idsvc EFS AxInstSV bthserv Power PlugPlay DcomLaunch WinHttpAut WebClient WdiService W32Time THREADOR SstpSvc	684 684 684 1196 1196	Windows CardS Encrypting File S ActiveX Installer Bluetooth Suppo Power Plug and Play DCOM Server Pr WinHTTP Web P WebClient Diagnostic Servi Windows Time Thread Ordering Secure Socket T	Stopped Stopped Stopped Running Running Running Stopped Running Stopped Stopped Stopped	AxInstSVGroup bthsvcs DcomLaunch DcomLaunch LocalService LocalService LocalService LocalService LocalService LocalService	W
nsi	1196	Network Store I	Running	LocalService	-
•					•
				Services	

What is the Status of all services?

### Step 3

Click the **Performance** tab.

polications Process	es Services	Performance Netw	orking Users	
CPU Usage	CPU Usage H	istory		
	MEEEE			
0 %		h a la l		And the second
Mamanu	Dhusical Mam	anu Llanca Llistanu		
Memory	Physical Mem	lory Usage History		
949 MB				
- Physical Memory (I		System		
Total	3578	Handles	14893	
Cached	844	Threads	608	
Available	2629	Processes	51	
Free	1847	Up Time	0:05:29:19	
1001 2012 100		Commit (MB)	974 / 7156	
Kernel Memory (ME	3)			
Paged	170	Deserver	Manifest	
Manager	38	Resource	Monitor	

How many Threads are running?

How many Processes are running?

What is the Total Physical Memory (MB)?

What is the Available Physical Memory (MB)?

How much Physical Memory (MB) is being used by the system?

### Step 4

Click the Networking tab.

Applications	Processes	Services	Perform	ance	Netwo	rking	Users			
-Wireless Ne	twork Conr	nection			6					
1 %										
0.50 %										
0 %										
Local Area	Connection									
1 %										
0.50.%										
0.30 %	0.50 %									
0 %										
Adapter No	-	Notwork	Hiling	Liel	Coord	Ctate	3			
Adapter Name		Network	Network Utiliza		Link Speed		State			
Local Area (	Local Area Connect		0%	6	5 Mboc	Copp	nnected	a		
Wireless Network C		0 %		65 Mbps		Connected				

What is the Link Speed?

# Step 5

Click the **Users** tab.

incertionia priroceas	es Se	ervices Per	formance Netw	orking Users	
User	ID	Status	Client Name	Session	
👰 Administrator	1	Active		Console	

List all users and their Status.

What actions can you perform on the user from this window?

# Step 6

Click the **Processes** tab.

<u>ا چ</u> ز	Windows Task Mar	nager			_ <b>_</b> ×
File	Options View	Help			
Δ	polications Process	es Services	Perform	ance Networking Users	
	pileadono	bernees	1 critorin	ance methoning overo	
	Image Name	User Name	CPU	Memory (Private Working Set)	Description
	csrss.exe		01	8,656 K	
	dwm.exe	Vicki	00	13,236 K	Desktop Window Manager
	explorer.exe	Vicki	00	18,628 K	Windows Explorer
	hqtray.exe	Vicki	00	1,424 K	VMware Host Network Access Status Tray Application
	msseces.exe	Vicki	00	2,272 K	Microsoft Security Essentials User Interface
	rundll32.exe	Vicki	00	2,252 K	Windows host process (Rundll32)
	Snagit32.exe	Vicki	00	15,324 K	Snagit
	SnagitEditor.exe	Vicki	00	21,204 K	Snagit Editor
	SnagPriv.exe	Vicki	00	680 K	Snagit RPC Helper
	taskhost.exe	Vicki	00	1,308 K	Host Process for Windows Tasks
	taskmgr.exe	Vicki	01	1,520 K	Windows Task Manager
	TscHelp.exe	Vicki	00	668 K	TechSmith HTML Help Helper
	winlogon.exe		00	1,408 K	
	Bhow processe	s from all user	rs		End Process
			45		
Proc	cesses: 41 CF	PU Usage: 0%	6	Physical Memory: 28%	

Click Show processes from all users.

Image NameUser NameCPUMemory (Private Working Set)Descriptioncsrss.exeSYSTEM001,180 KClient Server Runtime Processcsrss.exeSYSTEM008,656 KClient Server Runtime ProcessCTAudSvc.exeSYSTEM00772 KCreative Audio Servicedwm.exeVicki0013,244 KDesktop Window Managerexplorer.exeVicki0017,484 KWindows Explorerhqtray.exeVicki002,572 KLocal Security Authority Processlsm.exeSYSTEM002,572 KLocal Session Manager Servicelsm.exeSYSTEM002,272 KMicrosoft Security Essentials User Interfacemsseces.exeVicki002,272 KMicrosoft Windows Search Indexerundl32.exeVicki004,440 KMicrosoft Windows Search Indexerservices.exeSYSTEM002,252 KWindows Search Indexerservices.exeSYSTEM002,252 KWindows Search Indexerservices.exeSYSTEM002,224 KWindows Session Managerservices.exeSYSTEM002,224 KWindows Session Managersnagit32.exeVicki0015,160 KSnagitSnagit22.exeVicki0021,396 KSnagit EditorSnagit22.exeVicki003,152 KSpooler SubSystem Appsvchost.exeSYSTEM002,388 KHost Process for Windows Servicessvchost.exeNETWO00<	plications Processe	es Services	Performan	e Networking	Users		
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svchost.exe     SYSTEM     00     2,388 K     Host Process for Windows Services       svchost.exe     NETWO     00     2,440 K     Host Process for Windows Services       svchost.exe     LOCAL     00     13,616 K     Host Process for Windows Services       svchost.exe     SYSTEM     00     35,984 K     Host Process for Windows Services       svchost.exe     SYSTEM     00     35,984 K     Host Process for Windows Services       svchost.exe     SYSTEM     00     13,076 K     Host Process for Windows Services	spoolsv.exe	SYSTEM	00		3,152 K	Spooler SubSystem App	
svchost.exe         NETWO         00         2,440 K         Host Process for Windows Services           svchost.exe         LOCAL         00         13,616 K         Host Process for Windows Services           svchost.exe         SYSTEM         00         35,984 K         Host Process for Windows Services           svchost.exe         SYSTEM         00         13,076 K         Host Process for Windows Services	svchost.exe	SYSTEM	00		2,388 K	Host Process for Windows Services	
svchost.exe         LOCAL         00         13,616 K         Host Process for Windows Services           svchost.exe         SYSTEM         00         35,984 K         Host Process for Windows Services           svchost.exe         SYSTEM         00         13,076 K         Host Process for Windows Services	svchost.exe	NETWO	00		2,440 K	Host Process for Windows Services	
svchost.exe         SYSTEM         00         35,984 K         Host Process for Windows Services           svchost.exe         SYSTEM         00         13,076 K         Host Process for Windows Services	svchost.exe	LOCAL	00		13,616 K	Host Process for Windows Services	
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	svchost.exe	SYSTEM	00		13,076 K	Host Process for Windows Services	

Double-click the border around the tabs.

Windows Task Manager is now in compact mode.

Image Name	User Name	CPU	Memory (Private Working Set)	Description	
csrss.exe	SYSTEM	00	1, 180 K	Client Server Runtime Process	
csrss.exe	SYSTEM	00	8,656 K	Client Server Runtime Process	=
CTAudSvc.exe	SYSTEM	00	772 K	Creative Audio Service	
dwm.exe	Vicki	00	13,244 K	Desktop Window Manager	
explorer.exe	Vicki	00	17,476 K	Windows Explorer	
hqtray.exe	Vicki	00	1,424 K	VMware Host Network Access Status Tray Application	
sass.exe	SYSTEM	00	2,516 K	Local Security Authority Process	
lsm.exe	SYSTEM	00	784 K	Local Session Manager Service	
MsMpEng.exe	SYSTEM	00	48,904 K	AntiMalware Service Executable	
msseces.exe	Vicki	00	2,272 K	Microsoft Security Essentials User Interface	
rundll32.exe	Vicki	00	2,252 K	Windows host process (Rundll32)	
SearchIndexer	SYSTEM	00	4,440 K	Microsoft Windows Search Indexer	
services.exe	SYSTEM	00	3,240 K	Services and Controller app	
smss.exe	SYSTEM	00	232 K	Windows Session Manager	

Click Image Name.

Image Name	User Name	CPU	Memory (Private Working Set)	Description	1
WUDFHost.exe	LOCAL	00	1, 168 K	Windows Driver Foundation - User-mode Driver Fra	
wmpnetwk.exe	NETWO	00	3,484 K	Windows Media Player Network Sharing Service	=
winlogon.exe	SYSTEM	00	1,376 K	Windows Logon Application	
wininit.exe	SYSTEM	00	712 K	Windows Start-Up Application	
vmware-usbarb	SYSTEM	00	1,032 K	VMware USB Arbitration Service	
vmware-authd	SYSTEM	00	3,332 K	VMware Authorization Service	
mnetdhcp.exe	SYSTEM	00	744 K	VMware VMnet DHCP service	
vmnat.exe	SYSTEM	00	840 K	VMware NAT Service	
TscHelp.exe	Vicki	00	668 K	TechSmith HTML Help Helper	
taskmgr.exe	Vicki	00	1,816 K	Windows Task Manager	
taskhost.exe	Vicki	00	1,784 K	Host Process for Windows Tasks	
System Idle Pro	SYSTEM	99	12 K	Percentage of time the processor is idle	
System	SYSTEM	00	40 K	NT Kernel & System	
svchost.exe	LOCAL	00	1,648 K	Host Process for Windows Services	

Click Image Name again.

What effect does this have on the columns?

Image Name	User Name	CPU	Memory (Private Working Set)	Description	-
System Idle Pro	SYSTEM	99	12 K	Percentage of time the processor is idle	
System	SYSTEM	00	40 K	NT Kernel & System	-
smss.exe	SYSTEM	00	232 K	Windows Session Manager	
TscHelp.exe	Vicki	00	668 K	TechSmith HTML Help Helper	
SnagPriv.exe	Vicki	00	680 K	Snagit RPC Helper	
wininit.exe	SYSTEM	00	712 K	Windows Start-Up Application	
vmnetdhcp.exe	SYSTEM	00	744 K	VMware VMnet DHCP service	
CTAudSvc.exe	SYSTEM	00	772 K	Creative Audio Service	
sm.exe	SYSTEM	00	796 K	Local Session Manager Service	
vmnat.exe	SYSTEM	00	840 K	VMware NAT Service	
vmware-usbarb	SYSTEM	00	1,032 K	VMware USB Arbitration Service	
WUDFHost.exe	LOCAL	00	1, 168 K	Windows Driver Foundation - User-mode Driver Fra	
csrss.exe	SYSTEM	00	1, 180 K	Client Server Runtime Process	
winlogon.exe	SYSTEM	00	1,376 K	Windows Logon Application	

#### Click Memory (Private Working Set).

What affect does this have on the columns?

Double-click the outside border again to return to tabs mode.

### Step 7

Open a browser.

Note: Firefox is used in this lab. However, any browser will work. Just substitute your browser name whenever you see the word Firefox.

#### Return to the Windows Task Manager.

plications Processe	es Services	Perfo	rmance Networking Users	
Image Name	User Name	CPU	Memory (Private Working Set)	Description
csrss.exe	SYSTEM	00	1,200 K	Client Server Runtime Process
csrss.exe	SYSTEM	00	8,620 K	Client Server Runtime Process
CTAudSvc.exe	SYSTEM	00	772 K	Creative Audio Service
dwm.exe	Vicki	00	13,348 K	Desktop Window Manager
explorer.exe	Vicki	00	18,836 K	Windows Explorer
firefox.exe	Vicki	00	27,804 K	Firefox
hqtray.exe	Vicki	00	1,424 K	VMware Host Network Access Status Tray Application
sass.exe	SYSTEM	00	2,544 K	Local Security Authority Process
lsm.exe	SYSTEM	00	800 K	Local Session Manager Service
MsMpEng.exe	SYSTEM	00	50,148 K	AntiMalware Service Executable
msseces.exe	Vicki	00	2,272 K	Microsoft Security Essentials User Interface
rundll32.exe	Vicki	00	2,252 K	Windows host process (Rundll32)
SearchIndexer	SYSTEM	00	5,928 K	Microsoft Windows Search Indexer
services.exe	SYSTEM	00	3,324 K	Services and Controller app
smss.exe	SYSTEM	00	232 K	Windows Session Manager
Snagit32.exe	Vicki	00	15,360 K	Snagit
SnagitEditor.exe	Vicki	00	22, 108 K	Snagit Editor
SnanPriv.exe	Vicki	00	680 K	Snaoit RPC Helper
Show processes f	from all users			Fad Deserve

Click Image Name so the list is in alphabetical order, then locate and select firefox.exe.

Process	Carrier	Deef			line Uterne					
Applications Froces	Ses Services	Perfor	mance   N	etwor	king Users					
Image Name	User Name	CPU	Memory	(Priva	te Working Set)	Descriptio	on	*		
csrss.exe	SYSTEM	00			1,200 K	Client Se	rver Runtime Process			
csrss.exe	SYSTEM	SYSTEM 00			8,600 K	Client Se	rver Runtime Process			
CTAudSvc.exe	SYSTEM	00			772 K	Creative	Audio Service	-		
dwm.exe	Vicki	00			13,356 K	Desktop	Window Manager			
explorer.exe	Vicki	00			18,844 K	Windows	s Explorer	E		
firefox.exe	0 51				38,020 K	Firefox				
hqtray.exe	Open File Location				1,424 K	1,424 K VMware Host Network Access Status Tray Application				
lsass.exe	End Process				2,532 K	Local Sec	curity Authority Process			
lsm.exe	Ism.exe End Process Tree MsMpEng.ex End Process Tree msseces.exe Debug rundll32.exe UAC Virtualization				800 K	Local Ses	ssion Manager Service			
MsMpEng.ex				43,532 K AntiMalware Service Executable 2,272 K Microsoft Security Essentials User Interface 2,252 K Windows host process (Rundll32)						
msseces.exe										
rundll32.exe										
SearchIndex	Create Dum	n File			5,928 K	Microsoft	t Windows Search Indexer			
services.exe	create Dan	princ			3,264 K	Services	and Controller app			
smss.exe	Set Priority		+		Realtime		ession Manager			
Snagit32.ex	Set Affinity.				High					
SnagitEditor					Alexa Marris	na ga a	pr			
SnadPriv.exi	Properties			5	Above Norma	2	Heiner	1000		
Show proc	Gata Canin	- e(c)		•	Normal		End Proce	SS		

Right-click **firefox.exe > Set Priority**.

What is the default priority for the browser?

Set the priority to **Above Normal**.



Click Change priority to the Windows Task Manager warning message.

### Step 8

Click View > Select Columns.

plications P	Refresh No Update Spe	w ed	5 tworking Users		
Image Name	Salast Calu	mans h	rivate Working Set)	Description	1
csrss.exe	Select Cold	11115	1,200 K	Client Server Runtime Process	
csrss.exe	SYSTEM	00	8,596 K	Client Server Runtime Process	
CTAudSvc.exe	SYSTEM	00	772 K	Creative Audio Service	
dwm.exe	Vicki	01	13,372 K	Desktop Window Manager	1
explorer.exe	Vicki	00	18,836 K	Windows Explorer	
firefox.exe	Vicki	00	43,316 K	Firefox	
hqtray.exe	Vicki	00	1,424 K	VMware Host Network Access Status Tray Application	4
lsass.exe	SYSTEM	00	2,532 K	Local Security Authority Process	
lsm.exe	SYSTEM	00	788 K	Local Session Manager Service	
MsMpEng.exe	SYSTEM	00	43,208 K	AntiMalware Service Executable	
msseces.exe	Vicki	00	2,272 K	Microsoft Security Essentials User Interface	
rundli32.exe	Vicki	00	2,252 K	Windows host process (Rundll32)	
SearchIndexer	SYSTEM	00	5,268 K	Microsoft Windows Search Indexer	
services.exe	SYSTEM	00	3,308 K	Services and Controller app	
smss.exe	SYSTEM	00	232 K	Windows Session Manager	
Snagit32.exe	Vicki	00	15,292 K	Snagit	
SnagitEditor.exe	Vicki	00	21,920 K	Snagit Editor	
SnanPriv.exe	Vicki	00	680 K	Snanit RPC Helper	1
Show processes	from all users	3		End Proce	

The "Select Process Page Columns" window appears.

Select Process Page Columns	X
Select the columns that will appear or	the Process page of Task Manager.
Memory - Paged Pool Memory - Non-paged Pool Page Faults Page Fault Delta	
Base Priority     Handles     Threads     USER Objects     GDI Objects     Ido Dejects	E
I/O Writes I/O Other I/O Read Bytes I/O Write Bytes I/O Other Bytes	
	OK Cancel

Place a check mark next to **Base Priority >** click **OK**.

Expand the width of the "Windows Task Manager" so the "Base Priority" column is visible.

options view ricip					
plications Processes Serv	vices Performance N	etworki	ng Users		
Image Name	User Name	CPU	Memory (Private Working Set)	Base Pri	1
System Idle Process	SYSTEM	99	12 K	N/A	
System	SYSTEM	00	40 K	Normal	
smss.exe	SYSTEM	00	232 K	Normal	
csrss.exe	SYSTEM	00	1,200 K	Normal	
csrss.exe	SYSTEM	00	8,596 K	Normal	
services.exe	SYSTEM	00	3,252 K	Normal	
sass.exe	SYSTEM	00	2,520 K	Normal	
lsm.exe	SYSTEM	00	788 K	Normal	
svchost.exe	SYSTEM	00	2,372 K	Normal	
svchost.exe	NETWORK SERVICE	00	2,452 K	Normal	
MsMpEng.exe	SYSTEM	00	43,236 K	Normal	
svchost.exe	LOCAL SERVICE	00	13,624 K	Normal	
svchost.exe	SYSTEM	00	38,408 K	Normal	
svchost.exe	SYSTEM	00	12,980 K	Normal	
svchost.exe	LOCAL SERVICE	00	2,988 K	Normal	
svchost.exe	NETWORK SERVICE	00	4,616 K	Normal	
SnagPriv.exe	Vicki	00	680 K	Normal	Ξ
spoolsv.exe	SYSTEM	00	3,144 K	Normal	
svchost.exe	LOCAL SERVICE	00	10,336 K	Normal	
svchost.exe	LOCAL SERVICE	00	3,740 K	Normal	
svchost.exe	LOCAL SERVICE	00	1,648 K	Normal	
vmware-usbarbitrator.exe	SYSTEM	00	1,032 K	Normal	
vmnat.exe	SYSTEM	00	840 K	Normal	
WUDFHost.exe	LOCAL SERVICE	00	1, 168 K	Normal	
vmnetdhcp.exe	SYSTEM	00	744 K	Normal	
vmware-authd.exe	SYSTEM	00	3,336 K	Normal	
TscHelp.exe	Vicki	00	668 K	Normal	
taskhost.exe	Vicki	00	1,784 K	Normal	
explorer.exe	Vicki	00	18,836 K	Normal	
rundll32.exe	Vicki	00	2,252 K	Normal	
msseces.exe	Vicki	00	2,272 K	Normal	
hqtray.exe	Vicki	00	1,424 K	Normal	
SearchIndexer.exe	SYSTEM	00	5,268 K	Normal	
wmpnetwk.exe	NETWORK SERVICE	00	3,476 K	Normal	
Snagit32.exe	Vicki	00	15,324 K	Normal	
SnagitEditor.exe	Vicki	00	22,260 K	Normal	
firefox.exe	Vicki	00	43,308 K	Above Normal	
wininit.exe	SYSTEM	00	712 K	High	-
•	III			•	
Show processes from all u	users			End Process	

#### Click Base Pri.

Which image name has a base priority of N/A?

List the image name that has a base priority of Above Normal?

### Step 9

Reset Firefox.exe base priority to normal. Right-click **firefox.exe > Set Priority > Normal > Change priority**.

Click View > Select Columns > uncheck Base Priority > OK.

Select Process Page Columns	X
Select the columns that will appear on	the Process page of Task Manager.
Memory - Peak Working Set Memory - Working Set Delta Memory - Private Working Set	*
Memory - Commit Size Memory - Paged Pool Memory - Non-paged Pool Page Faults Page Faults Page Fault Delta	E
Base Priority Handles Threads	
GDI Objects I/O Reads I/O Writes	-
	OK Cancel

Close Firefox.

lications Processes S	Services Performance	e Networkir	ng Users	
Image Name	User Name	CPU	Memory (Private Working Set)	Description
csrss.exe	SYSTEM	00	1,200 K	Client Server Rur
csrss.exe	SYSTEM	00	8,620 K	Client Server Rur
CTAudSvc.exe	SYSTEM	00	772 K	Creative Audio S
dwm.exe	Vicki	00	13,396 K	Desktop Window
explorer.exe Vicki		00	18,856 K	Windows Explore
hqtray.exe	Vicki	00	1,424 K	VMware Host Net
lsass.exe SYSTEM		00	2,532 K	Local Security Au
lsm.exe	SYSTEM	00	788 K	Local Session Mar
MsMpEng.exe	SYSTEM	00	43,596 K	AntiMalware Serv
msseces.exe	Vicki	00	2,272 K	Microsoft Securit
rundll32.exe	Vicki	00	2,252 K	Windows host pre
SearchIndexer.exe	SYSTEM	00	5,264 K	Microsoft Windov
services.exe	SYSTEM	00	3,328 K	Services and Con
smss.exe	SYSTEM	00	232 K	Windows Session
•	III			Þ
Show processes from	all users			End Process

Is Firefox listed as a process?

Close all open windows.