Arkansas' Premier Computer Club

July 2022

Bella Vista Computer Club - John Ruehle Center

Highlands Crossing Center, 1801 Forest Hills Blvd Suite 208 (lower level), Bella Vista, AR 72715

Bits & Bytes

Website: http://BVComputerClub.org

Email: editor@bvcomputerclub.org

MEETINGS

Board Meeting: July 11, 6pm, in John Ruehle Training Center, Highlands Crossing Center. **General Meeting:** July 11, 7pm, "Buying on the Internet", presented by Ginny Vance.

We will meet in-person in Room 1001 on the lower level of The Highlands Crossing Center, 1801 Forest Hills Blvd, Bella Vista, or you may attend the meeting on-line via Zoom. Zoom access information is published on our website.

Visitors or Guests are welcome.

Because of COVID-19, we recommend observing any current masking and social-distancing guidelines that may be in effect at the time of the meeting. Consider attending by Zoom if you or others in your family are in a high risk category.

HELP CLINICS

July 20, 9am - noon at John Ruehle center August 6, 9am - noon at John Ruehle center Members may request Remote Help on our website at https://bvcomputerclub.org at menu path Member Benefits ► Remote Help . MEMBERSHIP

Single membership is \$25; \$10 for each additional family member in the same household.

Join on our website at https://bvcomputerclub.org at menu path Get Involved ► Join/Renew, by mailing an application (from the web site) with check, or complete an application and pay in person at any meeting.

CLASSES

(At BVCC Training Center)

Wednesday, July 20, 2pm - 4pm, "Why, When and How to Backup Your C Drive", with Joel Ewing.

Wednesday, July 27, 4pm-6pm, "Computer Security for Regular People, Part 2", with Justin Sell.

Advance sign up required for each listed class: For reservations: email to <u>edu@bvcomputerclub.org</u>, or sign up at the General Meeting. Classes are **free to Computer Club members.**

Check the monthly calendar and announcements for any last minute schedule changes at <u>https://bvcomputerclub.org</u>.

NEW OR RETURNING BVCC MEMBERS

We are pleased to welcome the following new members or members returning to BVCC after an absence since last month's newsletter:

Marla Lytle

Connie Cain

Judi Corn

Judy Carter

EXPLORING YOUR WINDOWS PC

By Dick Maybach, Brookdale Computer User Group www.bcug.com, n2nd (at) att.net

Becoming familiar with your PC is like becoming familiar with a foreign city. You can read a book about it or visit it, but it's far better to do both; a visit gives you first-hand views of the landscape that you aren't likely to forget, and a book helps you understand what they mean. For becoming familiar with Windows, I like the book Windows 10 In Depth by Brian Knittel and Paul McFedries; although at \$40 and almost 1000 pages, it's neither a cheap nor a quick read. Windows 10 comes with many tools you can use to tour its terrain. Spending time visiting while your PC is working well not only removes a lot of the mystery of what it does but can help significantly if you run into problems.

The Task Manager is a good place to begin. Type "task" in the search box at the bottom left and select Task Manager on the right of the window that appears. (In the rest of this article, I'll replace the words describing such operations with the shortcut "task"> Task Manager.) Figure 1 shows the Task Manager's Processes tab, which shows what is running. Note the down-arrow at the top of the CPU column, which shows that the tasks are sorted by CPU usage. You can select any column to sort by its quantity. By the way, the 100% on the Disk column means neither that the disk is full nor that it's transferring data at maximum capacity, but only that it's always active. A right-click on a task name will display a menu of actions, and one that I've found helpful is End task, which shuts it down.

[일 Task Manager							:	×
Processes Performance App history	Startup Users Details	Services						
		× 25%	37%	100%	0%			
Name	Status	CPU	Memory	Disk	Network	Power usage	Power usage trend	
> 🔯 Service Host: Windows Update		15.7%	34.5 MB	0.1 MB/s	0.1 Mbps	High	Low	^
> 🔯 wsappx		2.1%	8.0 MB	0 MB/s	0 Mbps	Very low	Very low	
> 📧 Microsoft Software Protection P		2.0%	3.0 MB	0 MB/s	0 Mbps	Very low	Very low	
🗃 WMI Provider Host		1.1%	3.2 MB	0 MB/s	0 Mbps	Very low	Very low	
🔳 WaasMedic Agent Exe		0.7%	1.5 MB	0.4 MB/s	0 Mbps	Very low	Very low	
> 🔯 Service Host: SysMain		0.6%	65.2 MB	0.8 MB/s	0 Mbps	Very low	Very low	
System		0.6%	0.1 MB	0.1 MB/s	0 Mbps	Very low	Very low	
> 🛛 🙀 Task Manager		0.5%	22.3 MB	0 MB/s	0 Mbps	Very low	Very low	
> 🔯 Service Host: Local System		0.5%	7.1 MB	0.1 MB/s	0 Mbps	Very low	Very low	
> 🔯 Service Host: Windows Manage		0.4%	6.1 MB	0 MB/s	0 Mbps	Very low	Very low	
> 🔳 Antimalware Service Executable		0.3%	135.2 MB	0 MB/s	0 Mbps	Very low	Very low	
> 📧 Local Security Authority Process.		0.3%	5.8 MB	0 MB/s	0 Mbps	Very low	Very low	
> 🔯 Service Host: UtcSvc		0.3%	13.2 MB	0.1 MB/s	0 Mbps	Very low	Very low	
📧 Host Process for Windows Tasks		0.1%	2.4 MB	0.3 MB/s	0 Mbps	Very low	Very low	
> 🔯 Service Host: Local Service (Net		0.1%	1.0 MB	0 MB/s	0 Mbps	Very low	Very low	~
Fewer details							End task	

Figure 1: Task Manager, Processes Tab

Figure 2 shows the Performance tab, where the CPU item on the left has been selected to show an overview of CPU activity. You can also see similar memory, disk, and network displays.



Figure 2: Task Manager, Performance Tab

The App history tab shows what your PC has been doing, including what resources each process has used, See Figure 3.

r⊠ Task Manager File Options View						- 0	×
Processes Performance App history Startup Users Details	Services						
Name Status	~ 3%	42% Memory	9% Disk	0% Network	Power usage	Power usage tree	nd
📧 System	0.6%	0.1 MB	4.2 MB/s	0 Mbps	Very low	Very low	^
> 🙀 Task Manager	0.6%	26.2 MB	0 MB/s	0 Mbps	Very low	Very low	
> 🔯 Service Host: UtcSvc	0.6%	15.6 MB	0.1 MB/s	0 Mbps	Very low	Very low	
Microsoft OneDrive (32 bit)	0.3%	11.2 MB	0.1 MB/s	0 Mbps	Very low	Very low	
> 🔯 Service Host: SysMain	0%	78.6 MB	0.1 MB/s	0 Mbps	Very low	Very low	
System interrupts	0%	0 MB	0 MB/s	0 Mbps	Very low	Very low	
> 💽 Antimalware Service Executable	0%	120.3 MB	0 MB/s	0 Mbps	Very low	Very low	
> 🔯 Service Host: WinHTTP Web Pro	0%	1.3 MB	0 MB/s	0 Mbps	Very low	Very low	
> 🔯 Service Host: Cryptographic Ser	0%	4.2 MB	0 MB/s	0 Mbps	Very low	Very low	
> 🧕 VirtualBox Guest Additions Servi	0%	1.3 MB	0 MB/s	0 Mbps	Very low	Very low	
Client Server Runtime Process	0%	0.8 MB	0 MB/s	0 Mbps	Very low	Very low	
> 📧 Local Security Authority Process	0%	6.8 MB	0 MB/s	0 Mbps	Very low	Very low	
> 🔯 Service Host: State Repository S	0%	10.2 MB	0 MB/s	0 Mbps	Very low	Very low	
📧 Shell Infrastructure Host	0%	4.4 MB	0 MB/s	0 Mbps	Very low	Very low	
> 🔯 Service Host: Web Account Ma	0%	2.5 MB	0 MB/s	0 Mbps	Very low	Very low	
Fewer details					-	End tas	;k

Figure 3: Task Manager, App History Tab

The Resource Monitor ("resource" > Resource Monitor) is similar to Task Manager but shows more details. Figure 4 shows its Overview tab. As you can tell from the scrolling bars on the right, only a portion of each text panel is displayed here. (The network wasn't being used, so I haven't displayed that window. You can show or hide any window by selecting its title bar.) As with the Task Manager, you can right-click on an activity to bring up a menu of actions.

Nesource Monito	r															-			×
File Monitor Help																			
Overview CPU	Memory	Disk	Netw	ork									_	. Lr					_
CPU			2% CPI	J Usage				100	% Maximu	m Frequency					۲		Views	-	ľ
🗌 Image		PID	De	scription				State	us	Threads	CPU	Avera	^		CPU		10	0% ך	1
SearchApp.exe		5832	Sei	arch appl	ication			Susp	bended	51	0	0.00							
SearchApp.exe		4252	Sei	arch appl	ication			Susp	bended	44	0	0.00							
WinStore.App.exe		7592	Sto	ore				Susp	bended	34	0	0.00							
SystemSettings.exe	e	8136	Set	ttings				Susp	pended	19	0	0.00							
Maps.exe		9004	Ma	ips				Susp	bended	26	0	0.00							
perfmon.exe		6092	Re	source ar	d Perform	nance Mon	itor	Run	ning	17	0	1.28				~~~~			
dwm.exe		912	De	sktop Wi	ndow Ma	nager		Run	ning	20	0	0.20			60 Seconds			0% -	
csrss.exe		576						Run	ning	12	0	0.13			Disk	_	100 KB/	sec 7	
Memory Compress	ion	1932						Run	ning	34	0	0.10	~						
Disk			0 KB/se	c Disk I/0)			10%	Highest	Active Time									
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System	4	C	\Pr	0	1,820	1,820	N	ormal	0						Network			505	
Registry	10	8 C	:\W	0	6,827	6,827	N	ormal	0										
System	4	C	\\$L	0	3,728	3,728	N	ormal	0										
System	4	C	:\Us	0	134	134	Backgr	ound	7										
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System	4	C	:\\$B	0	320	320	Backgr	ound	0				~			AA -	Å		
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SearchApp.exe		5832		0 1	22,860	199,544	89,600	109.9	944								A		
svchost.exe (LocalSyst	emNetwo.	1616		0	84,096	86,264	12,740	73.5	524									0	
perfmon.exe		6092		0	41,352	60,908	21,404	39,5	504										-
Memory Compression		1932		0	340	38,784	0	38,7	784										
dwm.exe		912		0	49,832	81,856	43,308	38,5	548										
MoUsoCoreWorker.ex	xe	3508		0	73,064	90,112	55,244	34,8	368										
express.exe		6796		0	59,172	98,296	66,556	31,7	740				\mathbf{v}						

Figure 4: Resource Monitor, Overview Tab.

The CPU tab shows that activity. This instance of Windows is running on a virtual machine with four processors, and Figure 5 shows the activity on each, numbered 0, 1, 2, and 3.

Nesource Monitor										-		×
File Monitor Help												
Overview CPU Memory D	Disk	Network										
Processes	2	% CPU Usage			1	100% Maxim	um Frequency	<u> </u>	CPU 0		100%	ר ר
🗌 Image	PID	Descrip	Status	Threads	CPU	Averag		^				
SearchApp.exe	5832	Search	Suspe	51	0	0.00						
SearchApp.exe	4252	Search	Suspe	44	0	0.00						
WinStore.App.exe	7592	Store	Suspe	34	0	0.00			ι Α _λ			
SystemSettings.exe	8136	Settings	Suspe	19	0	0.00			tran MA	An	And	
Maps.exe	9004	Maps	Suspe	26	0	0.00					0%	1 L
perfmon.exe	6092	Resour	Runni	17	0	1.88			CPU 1		100%	٦ L
svchost.exe (utcsvc -p)	3004	Host Pr	Runni	16	0	0.46						
dwm.exe	912	Deskto	Runni	19	0	0.29						
csrss.exe	576		Runni	13	0	0.15						
System Interrupts	-	Deferr	Runni	-	0	0.06						
svchost.exe (LocalSystemNet	1616	Host Pr	Runni	5	0	0.05		~	. AA	*		
Services	0	% CPU Usage									0%	
Name	PID	Descrip	Status	Group	CPU	Averag		^	CPU 2		100%	ון
DiagTrack	3004	Conne	Runni	utcsvc	0	0.45						
SvsMain	1616	SysMain	Runni	LocalS	0	0.05						
VBoxService	1448	Virtual	Runni		0	0.04						
WinDefend	3192	Micros	Runni		0	0.03						
Schedule	1344	Task Sc	Runni	netsycs	0	0.02				1		
WinHttpAutoProxySyc	2596	WinHT	Runni	LocalS	0	0.01				April	00/	
nsi	1488	Netwo	Runni	LocalS	0	0.01			CDU 2		100%	-
DusmSvc	2248	Data U	Runni	LocalS	0	0.01			CPU 3		100%	
ClickToRunSvc	8372	Micros	Runni		0	0.01						
L =======	2055	G	D	1 10	^	0.00		•				
Associated Handles	_	_	_	_	_	Searc	:h Handles 🔎 😽	$\overline{\mathbf{v}}$				
Associated Modules								✓	AA.			
								V V		1912		×

Figure 5: Resource Monitor, CPU Tab.

Similarly, the Memory tab displays details of your RAM use, as shown in Figure 6. (Faults don't indicate problems; they mean data wasn't in a cache and had to be retrieved from RAM.) Finally, note the memory use summary at the bottom of the window.

🔊 Resource Monitor								-	-		×
File Monitor Help											
Overview CPU Memory [Disk N	letwork									
Processes	# 419	6 Used Physical Men	nory			Ó		۶	View	/s ▼	^
🗌 Image	PID	Hard Faults/sec	Commit (KB)	Working Set (KB)	Shareable (KB)	Private (KB)	^	Used Physical Me	mory	100%	1
SearchApp.exe MsMpEng.exe SearchApp.exe svchost.exe (LocalSystemNet perfmon.exe dwm.exe MoUsoCoreWorker.exe express.exe OfficeCickToRun.exe explorer.exe svchost.exe (WbioSvcGroup)	4252 3192 5832 1616 6092 912 3508 6796 8372 900 2484 4022		146,808 217,648 122,860 81,512 41,572 49,784 73,064 59,184 37,716 47,224 85,640 232	212,764 181,764 199,544 83,748 60,404 81,304 90,112 98,308 65,600 127,224 92,308	81,852 62,396 89,600 12,744 20,672 42,788 55,244 66,556 36,628 101,676 67,756	130,912 119,368 109,944 71,004 39,732 38,516 34,868 31,752 28,972 25,548 24,552 24,552		60 Seconds Commit Charge		0% 100%	
Physical Memory	247	'4 MB In Use	550	3506 MB Ava	ilable	<u> </u>)				
Hardware Reserved	In Use 2474 MB	Mod 19 M Availat Cachee Total Installe	ified B ble 3506 MB d 3505 MB 5999 MB ed 5999 MB	Standby 3486 MB	Free 20 MB			Hard Faults/sec		0%	

Figure 6: Resource Monitor, Memory Tab.

The Security and Maintenance tool ("maintenance"> Security and Maintenance) will display and help you resolve many problems. Figure 7 shows the usual case. Before taking this screenshot, I selected the Security and the Maintenance items to display those details. As you can infer from the scroll bar, only a portion of the window is visible,

→ 🕐 个 🏲 « System and	d Security > Security and Maintenance	✓ ^で	
Control Panel Home	Review recent messages and resc	lve problems	
Change Security and Maintenance settings	No issues have been detected by Security ar	d Maintenance.	
Change User Account Control settings	Security		\bigcirc
View archived messages	Network firewall		
	View in Windows Security		
	Virus protection		
	View in Windows Security		
	Internet security settings	ок	
	All Internet security settings are set to	their recommended levels.	
	User Account Control	On	
	UAC will notify you when apps try to r	nake changes to the computer.	
	💎 Change settings		
	Change settings How do I know what security settings are	right for my computer?	
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Figure 7: Security and Maintenance Tool.

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Storage Settings ("storage"> Storage Settings) shows your hard disk usage, Figure 8. (Turning Storage Sense On automatically deletes temporary files.) The small hard disk here is because this PC is a virtual machine. You will have to select "Show more categories" to see more than the Apps & features and Temporary files items. Select a blue icon on the left to display the details of that category.

		_	
tc	orage		
ora u (age Sense can automatically free up space by ge don't need, like temporary files and content in y	tting rid of files our recycle bin.	
	On On		
onf	figure Storage Sense or run it now		
20	cal Disk (C:) - 119 GB		
3.7	GB used	80.6 GB f	ree
is	is how your storage is used and how you can fre	e up space.	
7	System & reserved	20.2 G	В
	System files help Windows run properly		
:	Apps & features	17.9 G	В
	Uninstall unused or undesired apps & features		
հ	Temporary files	210 M	В
٠	Choose which temporary files to remove		
Л	Other	188 M	В
	Manage other large folders		
\sim	OneDrive	102 M	В
	Remove unused cloud-backed content		
~	Maps	5.85 M	R
	Maps	5.05 14	D

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Figure 8: Storage Settings.

Local Disk (0	:) Properties		
Security	Previous	/ersions	Quota
General	Tools	Hardware	Sharing
<u>8</u>			
Type: File system:	Local Disk		
Used space	e: 41,606,144	4,000 bytes	38.7 GB
Free space	86,633,648	8,128 bytes	80.6 GB
Capacity:	128,239,792	2,128 bytes	119 GB
	C		
	Drive	C:	Disk Cleanup
Compress th Allow files or file propertie	s drive to save disk this drive to have c	space ontents index	ed in addition to
	OK	Canaal	A1-

Figure 9: Local Disk Properties.

System Information ("msinfo32"> System Information) can tell you many system details, but understanding the information requires considerable expertise, Figure 10. However, exploring here is much safer than wandering through the Registry. In addition, you can find information on your hardware and software much faster than by opening the system case. You can see another view of your hard disk use by looking at its properties ("file"> File Explorer > Right-click on Local Disk (C:) > Properties), Figure 9. From here, you can also compress your disk (which will slow it down), clean it up by removing unneeded files, check for errors, defrag the file system, and change the security settings.

System Information File Edit View Help				- 0	×
System Information File Edit View Help System Summary Components C	Item OS Name Version Other OS Description OS Manufacturer System Name System Model System Type System SkU Processor BIOS Version/Date SMBIOS Version/Date SMBIOS Version BIOS Mode BaseBoard Manufacturer BaseBoard Manufacturer BaseBoard Product BaseBoard Product BaseBoard Version Platform Role Secure Boot State PCR7 Configuration Windows Directory System Directory Boot Device Locale Hardware Abstraction Layer USer Name	Value Microsoft Windows 10 Home 10.0.19042 Build 19042 Not Available Microsoft Corporation DESKTOP-CVDNQGL innotek GmbH VirtualBox x64-based PC Unsupported Intel(R) Core(TM) i7-2600 CPU @ 3.40GHz, 3392 Mh. innotek GmbH VirtualBox, 12/1/2006 2.5 Legacy Oracle Corporation VirtualBox 1.2 Desktop Unsupported Binding Not Possible C:\WINDOWS C:\WIND	z, 4 Core(s), 4 Logical Pi	rocessor(s)	×
	User Name Time Zone Installed Physical Memory (RAM) Total Physical Memory Available Physical Memory Total Virtual Memory	DESKTOP-CVDNQGL\n2nd Eastern Daylight Time 5.86 GB 5.86 GB 8.83 GB 6.80 GB			~
Find what:			Find	Close Fin	ıd

Search selected category only Search category names only Figure 10: System Information.

If you have a problem, you can ask Windows to help you solve it ("trouble"> Troubleshoot Settings), Figure 11. Don't expect miracles, but it's worth trying before you begin more time-consuming or expensive measures. The Additional troubleshooters item lets you direct the program toward the area of difficulty.

_	\times
Troubleshoot	
If something on your device isn't working, running a troubleshooter might help find and fix the problem for you.	
Recommended troubleshooting	
Recommended troubleshooters can help improve your Windows experience. How much do you want Microsoft to help when we find issues on your device that troubleshooters might be able to fix?	
Ask me before running troubleshooters $$	
Share Full Diagnostic data to get additional troubleshooting recommendations.	
No recommended troubleshooters right now	
Last checked: never	
View troubleshooting history	
Additional troubleshooters	
Get help	
Give feedback	
Figure 11: Troubleshoot Settings.	

You can see, and uninstall if you like, the programs you've installed with the Apps & Features utility ("programs"> Apps & Features > go to the bottom of the page > Programs and Features), Figure 12. This Displays the software you (and Microsoft) have added after Windows was installed. But, again, we're looking at a virtual machine, and the number of apps is far smaller than usual.

Programs and Features					- 🗆
> · · 🗖 > Control 🛙	Panel > Programs > Programs and Features	ٽ ~			
Control Panel Home	Uninstall or change a program				
View installed updates	To uninstall a program, select it from the list and then	click Uninstall, Change, or Repair.			
Turn Windows features on or					
off	Organize 🔻				== -
	Name	Publisher	Installed On	Size	Version
	Garmin Express	Garmin Ltd or its subsidiaries	4/8/2021	519 MB	7.4.2.0
	Nicrosoft Edge	Microsoft Corporation	6/13/2021		91.0.864.48
	Microsoft Office Home and Student 2019 - en-us	Microsoft Corporation	6/13/2021		16.0.14026.20270
	 Microsoft OneDrive 	Microsoft Corporation	6/11/2021	152 MB	21.099.0516.0003
	Microsoft Update Health Tools	Microsoft Corporation	6/11/2021	1.07 MB	2.81.0.0
	Microsoft Visual C++ 2005 Redistributable	Microsoft Corporation	5/16/2021	4.84 MB	8.0.61001
	Microsoft Visual C++ 2005 Redistributable (x64)	Microsoft Corporation	1/28/2020	7.10 MB	8.0.50727.42
	Microsoft Visual C++ 2005 Redistributable (x64)	Microsoft Corporation	5/16/2021	6.83 MB	8.0.61000
	Microsoft Visual C++ 2010 x64 Redistributable - 10.0	Microsoft Corporation	5/16/2021	13.8 MB	10.0.40219
	Microsoft Visual C++ 2010 x86 Redistributable - 10.0	Microsoft Corporation	5/16/2021	11.0 MB	10.0.30319
	Hicrosoft Visual C++ 2015-2019 Redistributable (x86)	Microsoft Corporation	4/8/2021	20.1 MB	14.23.27820.0
	MSXML 4.0 SP2 Parser and SDK	Microsoft Corporation	1/28/2020	2.51 MB	4.20.9818.0
	📧 Olympus Workspace	Olympus Corporation	1/28/2020	188 KB	1.2.0
	Oracle VM VirtualBox Guest Additions 6.1.22	Oracle Corporation	5/4/2021		6.1.22.0
	🗸 TurboTax 2019	Intuit, Inc	9/3/2020		2019.0
	🗸 TurboTax 2020	Intuit, Inc	1/19/2021		2020.0
	💐 Windows Driver Package - Dynastream Innovations, I	Dynastream Innovations, Inc.	12/1/2020		04/11/2012 1.2.40.20
	💐 Windows Driver Package - Silicon Labs Software (DSI	Silicon Labs Software	12/1/2020		02/06/2007 3.1

Figure 12: Apps & Features.

Network Status ("network"> Network Status) shows your network's status, usage, and devices, Figure 13.

	_	×
Status		
Network status		
Ethernet Public network		
You're connected to the Internet		
If you have a limited data plan, you can make this network a metered connection or change other properties.		
From the last 30 days		
Properties Data usage		
Show available networks View the connection options around you.		
Advanced network settings		
Change adapter options View network adapters and change connection settings.		
Network and Sharing Center For the networks you connect to, decide what you want to share.		
Network troubleshooter Diagnose and fix network problems.		
View hardware and connection properties		
Figure 13: Network Status.		

A firewall ("firewall"> Windows Defender Firewall) is your first defense against hackers, Figure 14. This screen shows the type of network connection and whether the firewall is active. This is less important at home, where you operate behind the hardware firewall in your Ethernet modem. However, if your PC is a laptop that you use at public hot spots, be sure to check that your firewall is set up correctly.



Figure 14: Windows Defender Firewall.

Settings ("settings"> Settings) is a central location for configuring your PC. We've already seen many of the topics displayed in Figure 15 by going directly to them. You've no doubt already done this, but it's worth revisiting to be sure you have missed something. In particular, Phone lets you link your PC with an Android device. Other worthwhile items are Network (which shows the devices and history of use), Ease of Access (which lets you customize to accommodate impaired perception), and Privacy (which sets how much info you disclose to MS and websites). Finally, Update & Security controls the updating process.



Figure 15: Settings Window.

The Device Manager ("device"> Device Manager) shows the device items from the Registry. You can view the devices by type (the view in Figure 16, by connection, or by container, as well as the resources by type or connection. You can also update drivers. Of course, you'll need some experience to do anything worthwhile or even safely here.

📇 Device Manager		\times
File Action View Help		
V 🗄 DESKTOP-CVDNQGL		
> 4 Audio inputs and outputs		
> 🤪 Batteries		
> 📓 Biometric devices		
> 💻 Computer		
> 👝 Disk drives		
> 🙀 Display adapters		
> 🔐 DVD/CD-ROM drives		
> 🐺 Human Interface Devices		
> 📹 IDE ATA/ATAPI controllers		
> 🔤 Keyboards		
> III Mice and other pointing devices		
> 📃 Monitors		
> 🚅 Network adapters		
> 📑 Print queues		
> Processors		
> Software devices		
> 4 Sound, video and game controllers		
> 🍇 Storage controllers		
> 🏣 System devices		
> Universal Serial Bus controllers		

Figure 16: Device Manager Window.

You should visit the Registry ("registry"> Registry Editor > Yes, to allow changes) only if you know what you're doing! See Figure 17. Since XP days, I haven't done this, and Windows 10 allows far safer ways to change its configuration. If you must work here, be sure you have everything backed up first.



Figure 17: Registry Editor.

As you explore your PC, you'll find much that needs explanation. Consider these puzzles to be opportunities to guide your reading in a good book or your Internet searches.