

## How to use the Task Manager

Windows 10 will open a window for each APP the user launches. The windows are all independent operations running in the PC's processor. Therefore, one of the windows can be closed (which ends the APP's activity) from within Task Manager.

For instance, if you are in a browser window connected to an internet web page which is not responding to your clicks, then you can end it (terminate/close the window) by using the Task Manger.

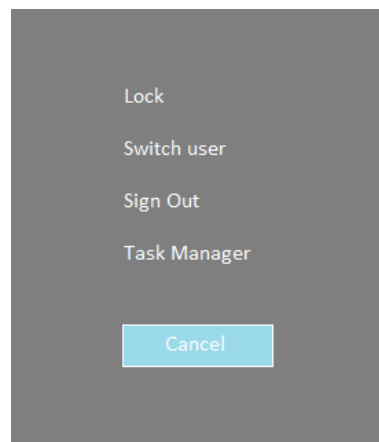
The Task Manager also performs monitoring of resources. All of the activities in the PC processor can be observed. These operations primarily fall into two categories: APPs and Background.

APPs are things you launch. You click on something or tap it – a window is opened – and the APP performs some function or waits for your command. Background programs are started by something like Windows or some APP triggered when you PC starts and remain in memory the whole time you are using the PC. These programs either monitor something or wait for some event to be triggered.

Examples of APPs are a browser like EDGE or Google to surf the web. Word or Excel to assist the user in a work function. Or Outlook to read or send email.

A background program maybe something like a security program (ie McAfee or Symantec) which is constantly in memory watching for virus attacks.

To launch Task Manager hold down (at the same time) the (Ctrl) (Alt) and (Delete) keys. Click or tap “Task Manager”.



This window will appear:

The screenshot shows the Windows Task Manager Performance tab. At the top, it displays overall system usage: 1% CPU, 45% Memory, 0% Disk, and 0% Network. Below this, a list of processes is shown, categorized into 'Apps (2)' and 'Background processes (101)'. The 'Apps' section includes Microsoft Word (32 bit) (2) and Task Manager. The 'Background processes' section lists various services and applications, including AcroTray, Adobe Acrobat Update Service, Adobe Collaboration Synchronizer, Adobe Genuine Software Integrity Service, Adobe Genuine Software Service, Adobe Photoshop Elements 11.0, Adobe Update Service, Akamai NetSession Client, and Andrea filters APO access service. At the bottom, there are buttons for 'Fewer details' and 'End task'.

Name	Status	1% CPU	45% Memory	0% Disk	0% Network
<b>Apps (2)</b>					
> Microsoft Word (32 bit) (2)		0%	34.2 MB	0 MB/s	0 Mbps
> Task Manager		0%	20.7 MB	0 MB/s	0 Mbps
<b>Background processes (101)</b>					
AcroTray (32 bit)		0%	0.5 MB	0 MB/s	0 Mbps
> Adobe Acrobat Update Service (32 bit)		0%	0.4 MB	0 MB/s	0 Mbps
Adobe Collaboration Synchronizer 19.8...		0%	1.7 MB	0 MB/s	0 Mbps
Adobe Collaboration Synchronizer 19.8...		0%	0.7 MB	0 MB/s	0 Mbps
> Adobe Genuine Software Integrity Servi...		0%	0.5 MB	0 MB/s	0 Mbps
> Adobe Genuine Software Service (32 bit)		0%	0.5 MB	0 MB/s	0 Mbps
> Adobe Photoshop Elements 11.0 (com...		0%	0.5 MB	0 MB/s	0 Mbps
> Adobe Update Service (32 bit)		0%	0.5 MB	0 MB/s	0 Mbps
Akamai NetSession Client (32 bit)		0%	3.1 MB	0 MB/s	0 Mbps
Akamai NetSession Client (32 bit)		0%	0.6 MB	0 MB/s	0 Mbps
> Andrea filters APO access service (64-bit)		0%	0.2 MB	0 MB/s	0 Mbps
Apple Push (32 bit)		0%	1.3 MB	0 MB/s	0 Mbps

The above shows 2 APPs are active. MS Word and of course the Task Manager.

There are 101 background processes active at this point.

The resources being used by the computer are shown in the titles like 45% of it's memory is in use. For each of the Apps and Background tasks the portion which is attributed to that task is shown.

Next let us look at session with the user working on several windows. Here is an explanation of how to stop/terminate one of the windows.

Consider the following:

The screenshot shows a Windows desktop with several windows open. The Task Manager window is open, displaying a list of applications and background processes. Red arrows point from the Task Manager window to the Bing browser window and the Word document. The Bing browser window is open to the Bing homepage. The Word document is open to a page with text about background programs and how to launch Task Manager. The Word document text is as follows:

Examples of APPs are a browser like EDGE or Google to surf the web, a work function, Or Outlook to read or send email.

A background program maybe something like a security program (ie McAfee or Symantec) which is constantly in memory watching for virus attacks.

To launch Task Manager hold down (at the same time) the (Ctrl) (Alt) and (Delete) keys:

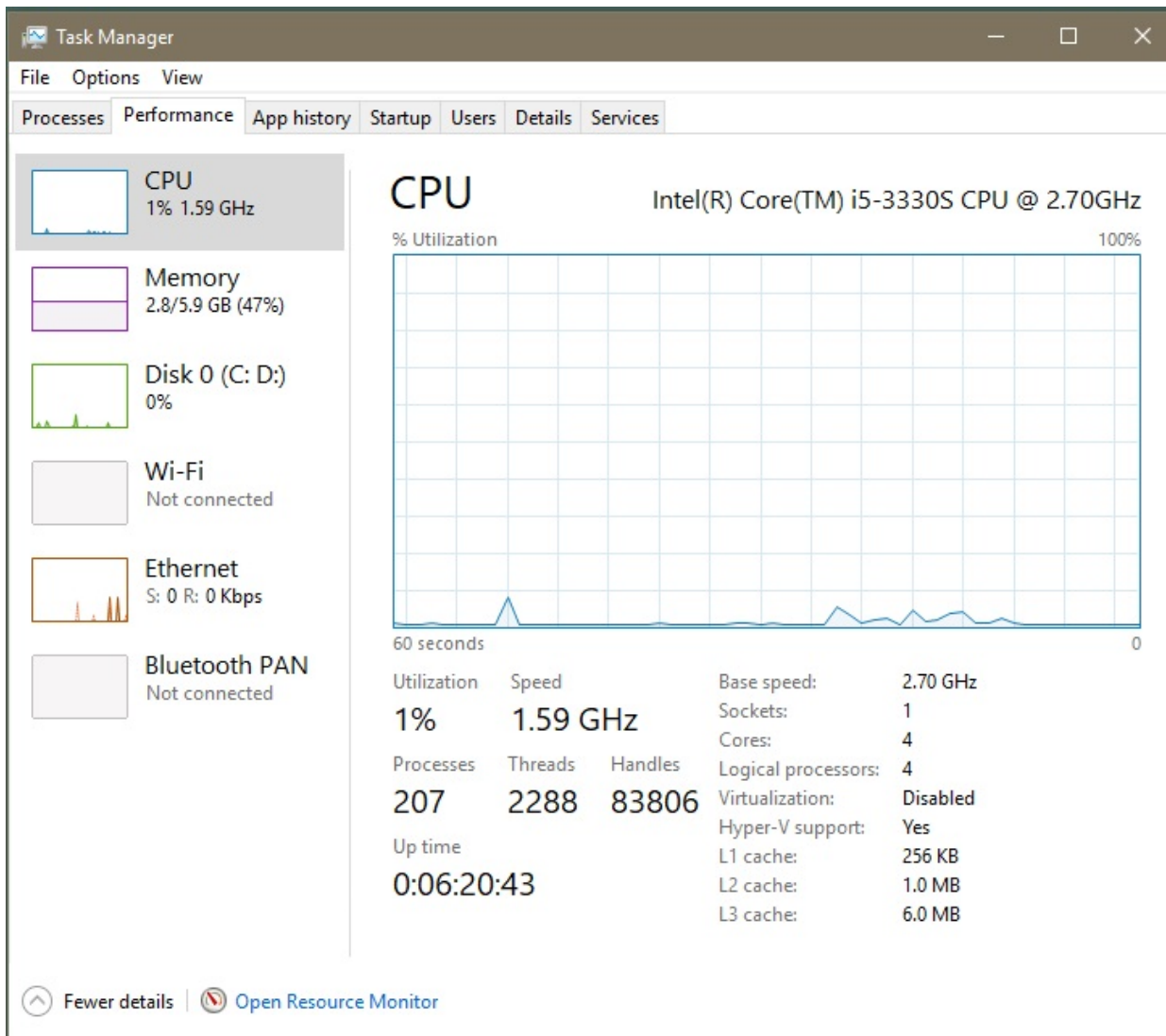
- Lock
- Switch user
- Sign Out
- Task Manager

The Task Manager window shows the following table of processes:

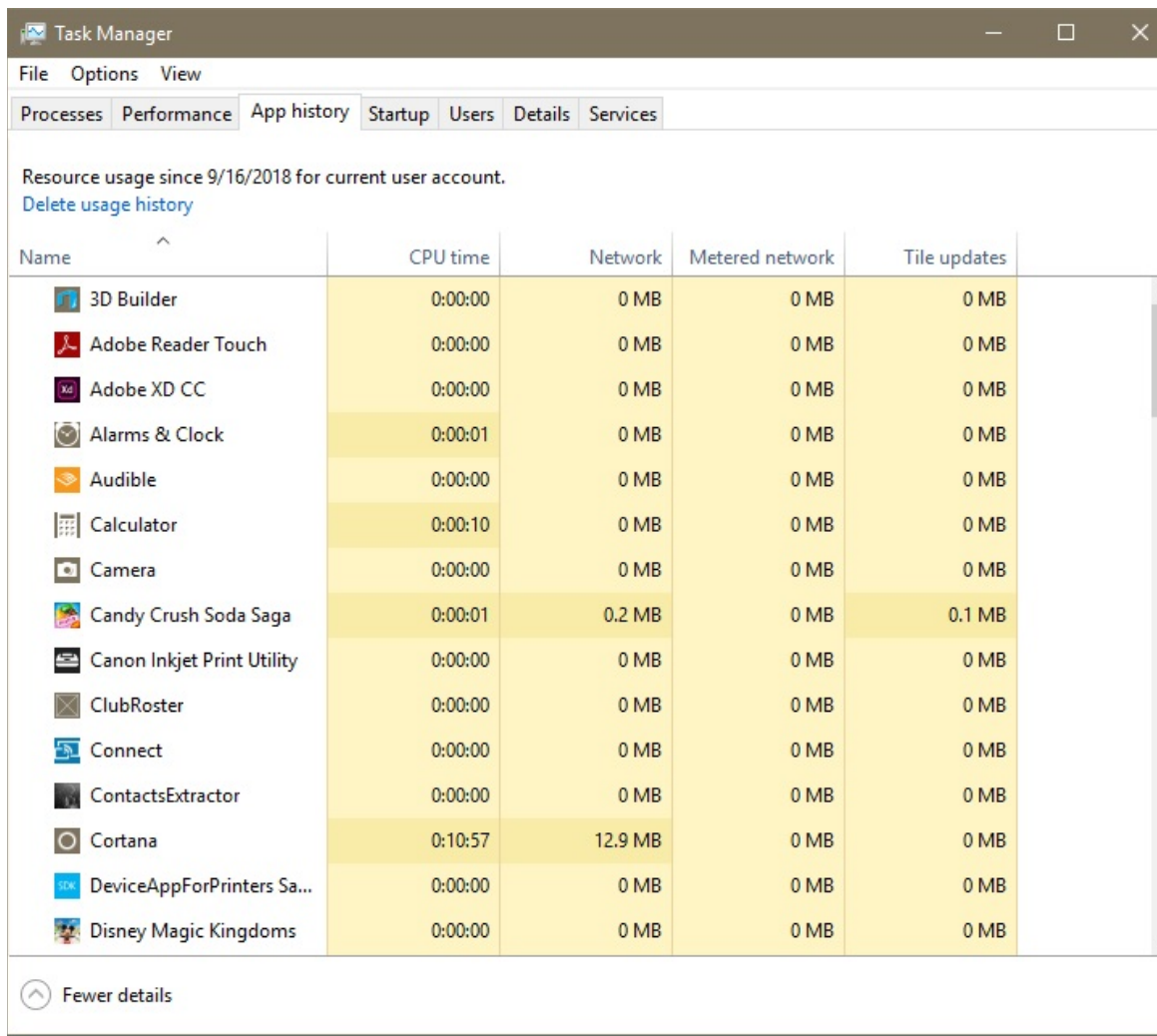
Name	Status	2% CPU	49% Memory	1% Disk	0% Network
<b>Apps (5)</b>					
Google (2)		0%	31.7 MB	0 MB/s	0 Mbps
Microsoft Edge (8)		0.4%	122.9 MB	0 MB/s	0 Mbps
Microsoft Word (32 bit)		0%	27.2 MB	0 MB/s	0 Mbps
Paint		0.1%	41.4 MB	0 MB/s	0 Mbps
Task Manager		0%	31.1 MB	0 MB/s	0 Mbps
<b>Background processes (103)</b>					
AcroTray (32 bit)		0%	0.5 MB	0 MB/s	0 Mbps
Adobe Acrobat Update Service (32 bit)		0%	0.4 MB	0 MB/s	0 Mbps
Adobe Collaboration Synchronizer 19.8...		0%	1.7 MB	0 MB/s	0 Mbps
Adobe Collaboration Synchronizer 19.8...		0%	0.7 MB	0 MB/s	0 Mbps
Adobe Genuine Software Integrity Servi...		0%	2.3 MB	0 MB/s	0 Mbps
Adobe Genuine Software Service (32 bit)		0%	1.1 MB	0 MB/s	0 Mbps
Adobe Photoshop Elements 11.0 (com...		0%	0.4 MB	0 MB/s	0 Mbps

If the Microsoft Edge internet browser page BING stopped working and you wanted to kill it, then under Apps (5) click Edge then click END TASK button (found at the bottom right of Task Manager Window).

The performance tab provides real-time measurement of resources and other stats.



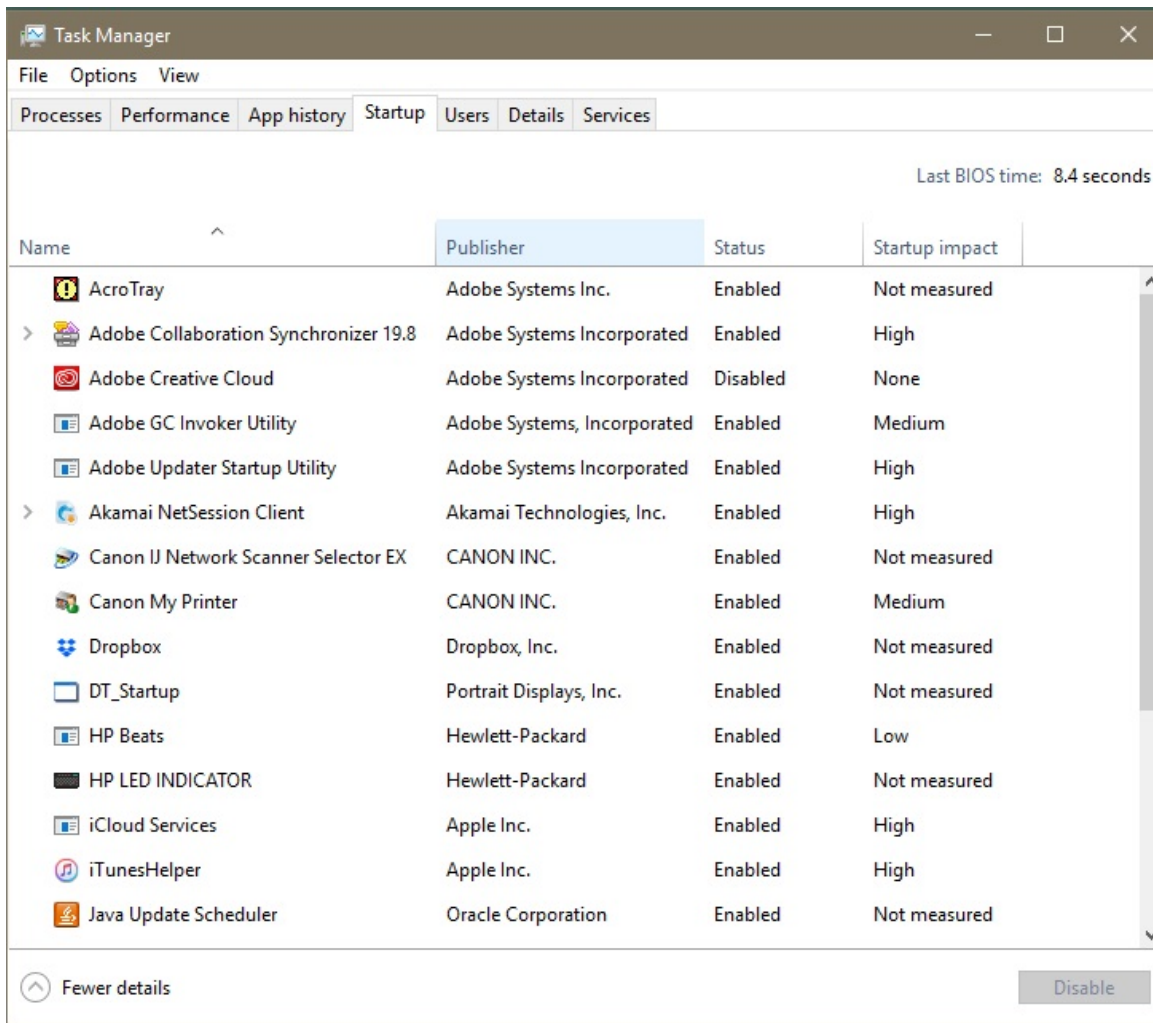
Using the App history tab if you click on the title CPU Time this page will order the Apps by how much cpu time has been used as of the usage since date.



The screenshot shows the Windows Task Manager window with the 'App history' tab selected. The window title is 'Task Manager'. Below the menu bar, there are tabs for 'Processes', 'Performance', 'App history', 'Startup', 'Users', 'Details', and 'Services'. The 'App history' tab is active, displaying resource usage since 9/16/2018 for the current user account. A link 'Delete usage history' is visible. The main area contains a table with columns: Name, CPU time, Network, Metered network, and Tile updates. The table lists various applications, with Cortana showing the highest CPU time at 0:10:57 and 12.9 MB of network usage. At the bottom, there is a 'Fewer details' button.

Name	CPU time	Network	Metered network	Tile updates
3D Builder	0:00:00	0 MB	0 MB	0 MB
Adobe Reader Touch	0:00:00	0 MB	0 MB	0 MB
Adobe XD CC	0:00:00	0 MB	0 MB	0 MB
Alarms & Clock	0:00:01	0 MB	0 MB	0 MB
Audible	0:00:00	0 MB	0 MB	0 MB
Calculator	0:00:10	0 MB	0 MB	0 MB
Camera	0:00:00	0 MB	0 MB	0 MB
Candy Crush Soda Saga	0:00:01	0.2 MB	0 MB	0.1 MB
Canon Inkjet Print Utility	0:00:00	0 MB	0 MB	0 MB
ClubRoster	0:00:00	0 MB	0 MB	0 MB
Connect	0:00:00	0 MB	0 MB	0 MB
ContactsExtractor	0:00:00	0 MB	0 MB	0 MB
Cortana	0:10:57	12.9 MB	0 MB	0 MB
DeviceAppForPrinters Sa...	0:00:00	0 MB	0 MB	0 MB
Disney Magic Kingdoms	0:00:00	0 MB	0 MB	0 MB

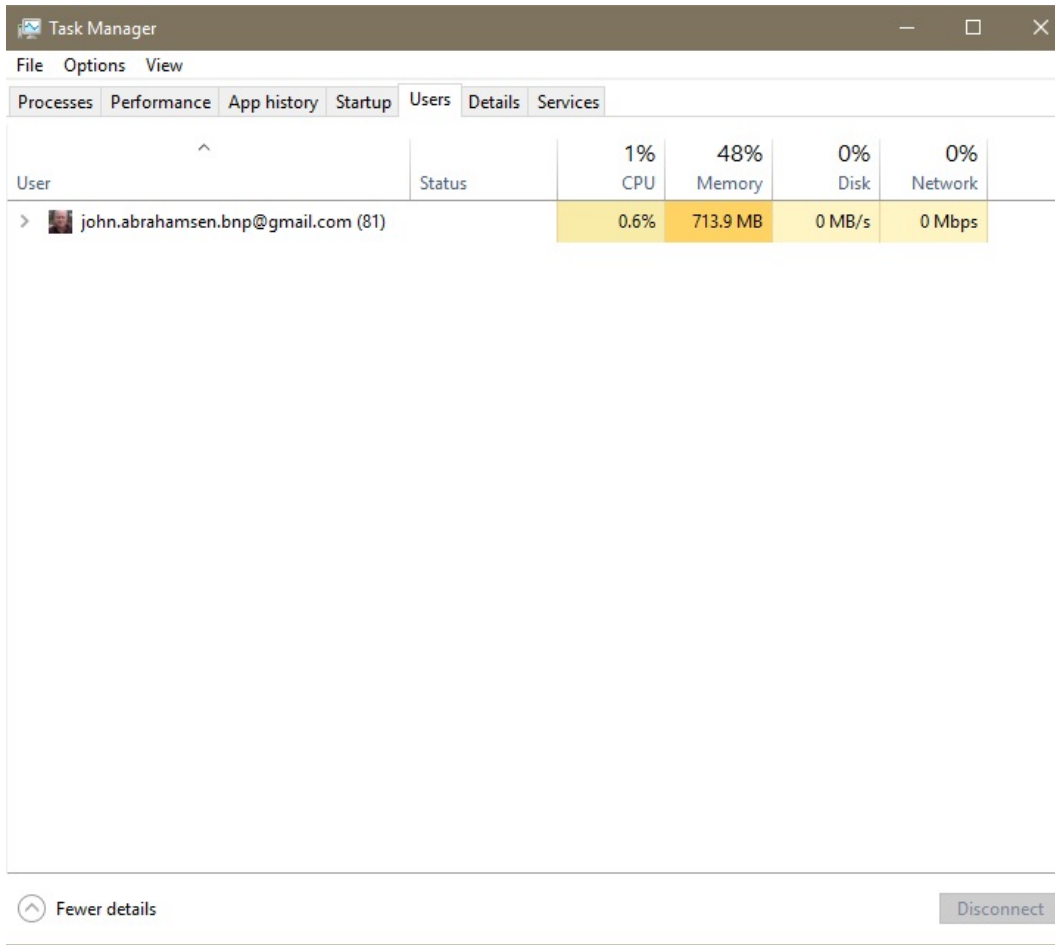
The Startup tab shows the Apps that are launched automatically when the PC starts. Note that in the status column you can click on enabled to disable that APP. However, use caution as that may disrupt something that you rely on while using the PC.



The screenshot shows the Windows Task Manager application with the 'Startup' tab selected. The window title is 'Task Manager' and it has a menu bar with 'File', 'Options', and 'View'. Below the menu bar are tabs for 'Processes', 'Performance', 'App history', 'Startup', 'Users', 'Details', and 'Services'. The 'Startup' tab is active, displaying a table of startup applications. The table has columns for 'Name', 'Publisher', 'Status', and 'Startup impact'. The 'Status' column contains a toggle switch for each application. At the top right of the table area, it says 'Last BIOS time: 8.4 seconds'. At the bottom left, there is a 'Fewer details' button with an upward arrow, and at the bottom right, there is a 'Disable' button.

Name	Publisher	Status	Startup impact
AcroTray	Adobe Systems Inc.	Enabled	Not measured
Adobe Collaboration Synchronizer 19.8	Adobe Systems Incorporated	Enabled	High
Adobe Creative Cloud	Adobe Systems Incorporated	Disabled	None
Adobe GC Invoker Utility	Adobe Systems, Incorporated	Enabled	Medium
Adobe Updater Startup Utility	Adobe Systems Incorporated	Enabled	High
Akamai NetSession Client	Akamai Technologies, Inc.	Enabled	High
Canon IJ Network Scanner Selector EX	CANON INC.	Enabled	Not measured
Canon My Printer	CANON INC.	Enabled	Medium
Dropbox	Dropbox, Inc.	Enabled	Not measured
DT_Startup	Portrait Displays, Inc.	Enabled	Not measured
HP Beats	Hewlett-Packard	Enabled	Low
HP LED INDICATOR	Hewlett-Packard	Enabled	Not measured
iCloud Services	Apple Inc.	Enabled	High
iTunesHelper	Apple Inc.	Enabled	High
Java Update Scheduler	Oracle Corporation	Enabled	Not measured

As the tab name states Users will show how many people are connected to this PC at this time.



The screenshot shows the Windows Task Manager application with the 'Users' tab selected. The window title is 'Task Manager'. The menu bar includes 'File', 'Options', and 'View'. The navigation tabs are 'Processes', 'Performance', 'App history', 'Startup', 'Users', 'Details', and 'Services'. The 'Users' tab displays a table with the following columns: 'User', 'Status', 'CPU', 'Memory', 'Disk', and 'Network'. A single user is listed: 'john.abrahamsen.bnp@gmail.com (81)'. The user's resource usage is: CPU 0.6%, Memory 713.9 MB, Disk 0 MB/s, and Network 0 Mbps. At the bottom left, there is a 'Fewer details' button with an upward arrow icon. At the bottom right, there is a 'Disconnect' button.

User	Status	CPU	Memory	Disk	Network
> john.abrahamsen.bnp@gmail.com (81)		0.6%	713.9 MB	0 MB/s	0 Mbps



The Details tab provides more info on each App. The description provides insight into the owner/source/origin of the App.

The screenshot shows the Windows Task Manager application with the 'Details' tab selected. The window title is 'Task Manager' and it has a menu bar with 'File', 'Options', and 'View'. Below the menu bar are tabs for 'Processes', 'Performance', 'App history', 'Startup', 'Users', 'Details', and 'Services'. The 'Details' tab is active, displaying a table of running processes. The table has columns for Name, PID, Status, User name, CPU, Memory, and Description. The first row is highlighted in blue.

Name	PID	Status	User name	CPU	Memory ...	Description
Dropbox.exe	12776	Running	JAWTools	00	53,720 K	Dropbox
Dropbox.exe	13192	Running	JAWTools	00	696 K	Dropbox
Dropbox.exe	10160	Running	JAWTools	00	476 K	Dropbox
DropboxUpdate.exe	7412	Running	SYSTEM	00	264 K	Dropbox Update
dthtml.exe	11416	Running	JAWTools	00	1,252 K	HP My Display
DTSRVC.exe	2140	Running	SYSTEM	00	376 K	DTSRVC
dwm.exe	1232	Running	DWM-1	00	31,160 K	Desktop Window Manager
explorer.exe	5628	Running	JAWTools	00	34,108 K	Windows Explorer
fontdrvhost.exe	1016	Running	UMFD-0	00	280 K	Usermode Font Driver Host
fontdrvhost.exe	1164	Running	UMFD-1	00	6,160 K	Usermode Font Driver Host
GoogleCrashHandler.exe	7104	Running	SYSTEM	00	288 K	Google Crash Handler
GoogleCrashHandler64.exe	2104	Running	SYSTEM	00	120 K	Google Crash Handler
HeciServer.exe	4172	Running	SYSTEM	00	400 K	Intel(R) Capability Licensing Service Interface
HookManager.exe	3744	Running	JAWTools	00	484 K	Context Menu Utility
HPSA_Service.exe	10212	Running	SYSTEM	00	792 K	HP Support Assistant Service
HPSupportSolutionsFramework...	4188	Running	SYSTEM	00	668 K	SolutionsFrameworkService
HxCalendarApplmm.exe	1060	Suspended	JAWTools	00	48 K	Microsoft Outlook Calendar
HxTsr.exe	14644	Suspended	JAWTools	00	10,796 K	Microsoft Outlook Communications
iCloudServices.exe	12228	Running	JAWTools	00	3,824 K	iCloud Services
igfxCUIService.exe	2464	Running	SYSTEM	00	468 K	igfxCUIService Module
igfxEM.exe	8092	Running	JAWTools	00	836 K	igfxEM Module
igfxext.exe	9240	Running	JAWTools	00	396 K	igfxext Module
igfxHK.exe	1540	Running	JAWTools	00	600 K	igfxHK Module
IntelMeFWService.exe	5892	Running	SYSTEM	00	368 K	Intel(R) ME Service
iPodService.exe	12340	Running	SYSTEM	00	824 K	iPodService Module (64-bit)

At the bottom left of the window, there is a 'Fewer details' button with an upward-pointing arrow. At the bottom right, there is an 'End task' button.

A useful thing to do in the Services tab is to click on the Group title. All the Apps will be organized together by their owner. So, for instance, all the Apps related to “NetworkService” will be shown together.

The screenshot shows the Windows Task Manager window with the 'Services' tab selected. The window title is 'Task Manager' and it has a menu bar with 'File', 'Options', and 'View'. Below the menu bar are tabs for 'Processes', 'Performance', 'App history', 'Startup', 'Users', 'Details', and 'Services'. The 'Services' tab is active, displaying a table of services. The table has five columns: 'Name', 'PID', 'Description', 'Status', and 'Group'. The services are grouped by their 'Group' column, with 'NetworkService' being one of the groups. At the bottom of the window, there are two buttons: 'Fewer details' and 'Open Services'.

Name	PID	Description	Status	Group
dbupdate		Dropbox Update Service (dbupdate)	Stopped	
dbupdatem		Dropbox Update Service (dbupdatem)	Stopped	
DbxSvc	3036	DbxSvc	Running	
DcomLaunch	640	DCOM Server Process Launcher	Running	DcomLaunch
debugregsvc		debugregsvc	Stopped	DevToolsGroup
defragsvc		Optimize drives	Stopped	defragsvc
DeveloperToolsService		Developer Tools Service	Stopped	
DeviceAssociationService	3024	Device Association Service	Running	LocalSystemNetworkRestricted
DeviceInstall		Device Install Service	Stopped	DcomLaunch
DevicePickerUserSvc		DevicePicker	Stopped	DevicesFlow
DevicePickerUserSvc_56aa6		DevicePickerUserSvc_56aa6	Stopped	DevicesFlow
DevicesFlowUserSvc		DevicesFlow	Stopped	DevicesFlow
DevicesFlowUserSvc_56aa6		DevicesFlowUserSvc_56aa6	Stopped	DevicesFlow
DevQueryBroker		DevQuery Background Discovery Broker	Stopped	LocalSystemNetworkRestricted
Dhcp	1944	DHCP Client	Running	LocalServiceNetworkRestricted
diagnosticshub.standardcollector.service		Microsoft (R) Diagnostics Hub Standard Collector Service	Stopped	
diagsvc		Diagnostic Execution Service	Stopped	diagnostics
DiagTrack	3164	Connected User Experiences and Telemetry	Running	utcsvc
DmEnrollmentSvc		Device Management Enrollment Service	Stopped	netvcs
dmwappushservice		dmwappushsvc	Stopped	netvcs
Dnscache	2752	DNS Client	Running	NetworkService
DoSvc	8820	Delivery Optimization	Running	NetworkService
dot3svc		Wired AutoConfig	Stopped	LocalSystemNetworkRestricted
DPS	3444	Diagnostic Policy Service	Running	LocalServiceNoNetwork
DsmSvc		Device Setup Manager	Stopped	netvcs

[Fewer details](#) | [Open Services](#)