

# 40 POWERSHELL & CMD COMMANDS FOR ADMINISTRATORS

BY VICTOR ASHIEDU

# 40 Most Useful PowerShell and Command Prompt Commands for Windows Administrators

By Victor ASHIEDU

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### Introduction

This free eBook lists and explains the 40 most useful PowerShell commands and Command Prompt commands. Each command comes with examples.

The book is divided into 2 chapters. Chapter 1 covers the 20 most useful PowerShell commands. Chapter 2 covers the 20 most useful Command Prompt commands.

"40 Most Useful PowerShell and Command Prompt Commands for Windows Administrators" is for administrators that want to learn the skills to automate Windows tasks with PowerShell or Command Prompt commands.

# Chapter 1: 20 Most Useful PowerShell Commands

This guide teaches you how to use the 20 most useful PowerShell commands for Systems Administrators.

In this guide, I will share commands required to perform common tasks in Windows. Most Windows administrators will find this tutorial both useful and handy.

# 1.0 PowerShell Commands to Find and Get Help with Cmdlets

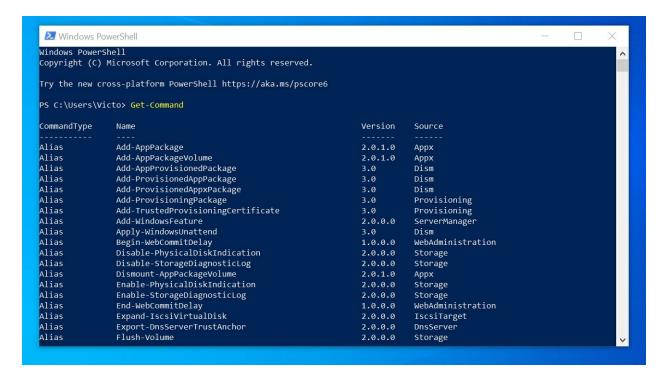
You cannot talk about the most useful PowerShell commands without learning how to find them. Below are the PowerShell commands that will help you find Cmdlets (Command Lets).

### **Get-Command**

The Get-Command Cmdlet is the first and most important command a PowerShell newbie should learn and know how to use. Why? It helps you find other PowerShell Cmdlets. What command can be more important than a command that can do this?

To find all PS Commands in your computer, simply execute this command below:

Get-Command



### Understanding the Results of the Get-Command Cmdlet There are four columns in the results of the Get-Command Output

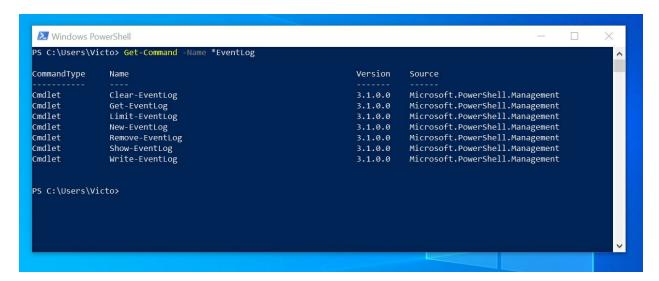
- 1. *CommandType*: This tells you whether a command is an Alias, a Cmdlet, or a Function.
- 2. *Name*: The name is the actual command you execute.
- 3. *Version*: This is the PowerShell version
- 4. *Source*: The module of the PS command.

With this information, you can filter the results from Get-Command. Say you want to see PowerShell commands containing the word "EventLog", running the command below will get the job done:

### Get-Command -Name \*EventLog

Notice where I added the asterisks. This is because I am aware that "EventLog" is the "Noun" part of the Cmdlets. However, if you don't even know you could try adding the asterisks at the beginning then try the end.

Below is the result of the previous command.



### **Get-Command Parameters**

Lastly, before we move on, let's discuss the parameters of the Get-Command Cmdlet.

To get all the parameters and information about the Get-Command command, execute this command below:

Get-Help Get-Command -Full

This will give you all the information regarding the Get-Command Cmdlet. I will discuss the Get-Help Cmdlet next.

### **Get-Help**

While the Get-Command Cmdlet finds the Cmdlets, the Get-Help PowerShell command gives you the information you need to use the command.

The easiest way to use the Get-Help Cmdlet is to enter Get-Help followed by the command you want information on. To find more information about the Get-EventLog Cmdlet, run the command below:

Get-Help Get-EventLog

This will give you the basic information about Get-EventLog PowerShell Command. See the result below:

```
Windows PowerShell
                                                                                                                                      PS C:\Users\Victo> Get-Help Get-EventLog
    Get-EventLog
SYNOPSIS
    Gets the events in an event log, or a list of the event logs, on the local or remote computers.
    Get-EventLog [-LogName] <String> [[-InstanceId] <Int64[]>] [-After <DateTime>] [-AsBaseObject] [-Before 
<DateTime>] [-ComputerName <String[]>] [-EntryType {Error | Information | FailureAudit | SuccessAudit | Warning}] 
[-Index <Int32[]>] [-Message <String>] [-Newest <Int32>] [-Source <String[]>] [-UserName <String[]>]
     [<CommonParameters>]
     Get-EventLog [-AsString] [-ComputerName <String[]>] [-List] [<CommonParameters>]
DESCRIPTION
     The Get-EventLog cmdlet gets events and event logs on the local and remote computers.
    You can use the parameters of this cmdlet to search for events by using their property values. This cmdlet gets
    only the events that match all of the specified property values.
     The cmdlets that contain the EventLog noun work only on classic event logs. To get events from logs that use the
    Windows Event Log technology in Windows Vista and later versions of Windows, use Get-WinEvent.
    Online Version: http://go.microsoft.com/fwlink/?LinkId=821585
    Clear-EventLog
     Limit-EventLog
     New-EventLog
```

### Some Important Parameters of the Get-Help Command

Like any other PowerShell Cmdlet, the Get-Help Cmdlet has several parameters. Below are the most important parameters you will need.

- 1. *-Detailed*: The *Detailed* parameter gives you the command SYNTAX, PARAMETERS, ALIASES, and REMARKS.
- 2. *-Full*: The Full gives similar information provided by the *Detailed* parameter with more information about each parameter
- 3. *-Examples*: Gives examples of how to use the Cmdlet. This can be very useful if you have never used the Cmdlet before.
- 4. -Online: Opens the online help page of the Cmdlet.

To see the parameters of a PS Cmdlet, type the Cmdlet in PS, hit the space key, type hyphen "-" followed by the tab key. As you press the tab key you will scroll through available parameters.

### 1.1 PowerShell Commands to Manage Files and

### **Folders**

Now that you know how to find PowerShell commands, let's get you in the hood. The next set of the most useful PowerShell commands are Cmdlets to help you manage files and folders.

### **Get-ChildItem**

Gets items in a specified location. To list the folders in my drive C, I will run the command below:

Get-ChildItem c:/

This will list all the top-level folders. To list all files, folders include subfolders use the *-Recurse* parameter.

### Tip

You can combine the Get-ChildItem Cmdlet let with other Cmdlet to calculate the size of each folder in a specified directory.

### **Copy-Item and Move-Item**

You could use the Get-ChildItem Cmdlet to list items in a folder, then pipe the result to Copy-Item Cmdlet to copy the items to a new location. The command below will do the job:

Get-ChildItem C:\Dropbox | Copy-Item -Destination C:\NewFolder

The above PowerShell command will only copy the top-level folders and files - it will NOT copy sub-folders and files. To copy all files and folders including sub-folders, include the *-Recurse* parameter in the Get-ChildItem command as shown below:

Get-ChildItem C:\Dropbox -Recurse | Copy-Item -Destination C:\NewFolder

While the Copy-Item Cmdlet copies items from one location to another the Move-Item Cmdlet moves the item.

### **Remove-Item**

This Cmdlet deletes specified items. Like the Copy-Item and Move-Item Cmdlets, you could pipe the output of Get-ChildItem to Remove-Item.

Use the Remove-Item Cmdlet with caution as it can delete all files and folders in your computer including Windows files!

### Tip

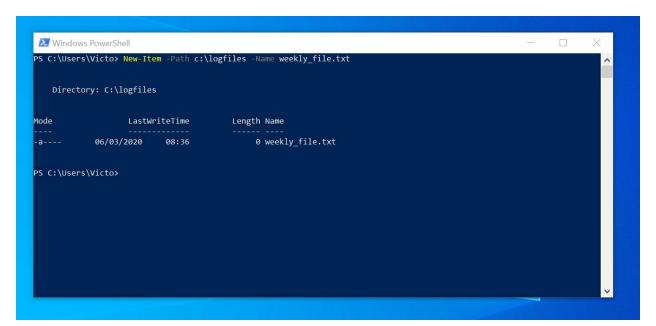
By piping the output of Get-ChildItem to Remove-Item, you could create a simple script that will delete some log files on regular bases. You could schedule the PS script to run at a specified time using Windows Scheduler.

### **New-Item**

This Cmdlet creates a new item in Windows. New-Item can be used to create files, folders and registry keys and entries. The command below creates a text file called weekly\_file.txt in c:\logfiles folder:

New-Item -Path c:\logfiles -Name weekly\_file.txt

Here is the command in PowerShell

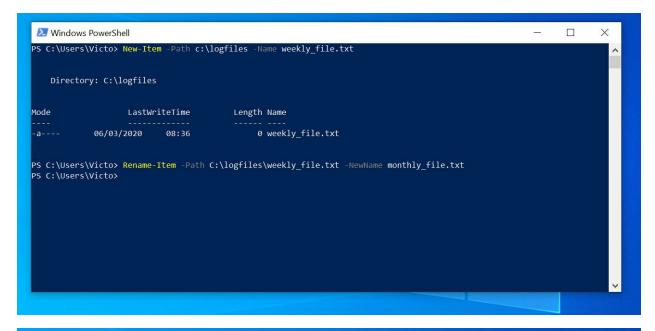


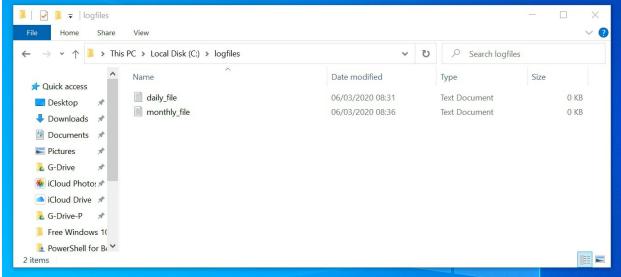
### **Rename-Item**

Rename-Item Cmdlet is used to rename things in Windows. This Cmdlet can rename files, folders and registry keys. This command will rename weekly\_file.txt to monthly\_file.txt

Rename-Item -Path C:\logfiles\weekly\_file.txt -NewName monthly\_file.txt

When you run the command, it appears that nothing happened, but when you check the folder, the text file has been renamed!





### 1.2 PowerShell Commands for Reporting

There are 3 sets of PowerShell commands that you can use to export items to CVS, text files and or HTML files.

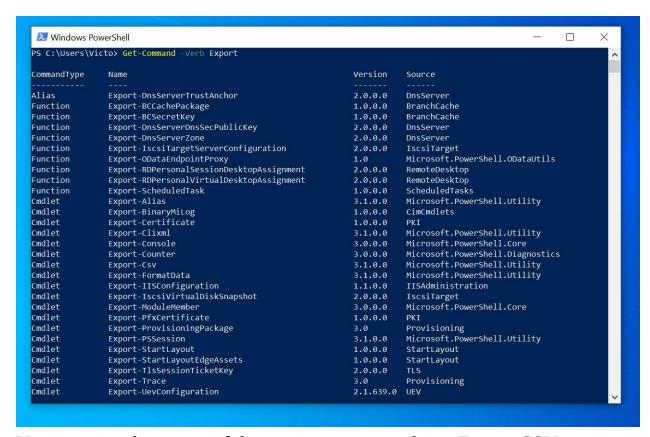
### **Export-Csv**

Export-Csv converts a set of string into CSV and saves in a file. This Cmdlet is very important in reporting.

To demonstrate the use of Export-CSV, run the command below:

Get-Command -Verb Export

Here is the result of the command.



You can pipe the output of the previous command into Export-CSV to create a CVS report of the results shown in the previous image.

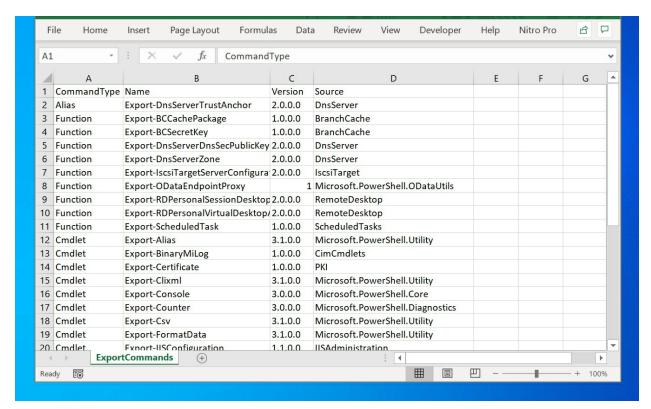
Here is the command to accomplish this task.

 $\label{thm:command-verb} Get-Command-Verb\ Export\ |\ Select-Object\ CommandType,\ Name,\ Version,\ Source\ |\ Export-Csv-NoTypeInformation\ -Path\ C:\ NewFolder\ ExportCommands. CSV$ 

Note that I had to include the CSV file name to the path. I also have another parameter -*NoTypeInformation* — To learn more about -NoTypeInformation, read this article <a href="PowerShell NoTypeInformation">PowerShell NoTypeInformation</a>: Applications and Uses.

There is another Cmdlet in the previous command, Select-Object. This Cmdlet was used to specify the columns to return and export to CSV. If I excluded Select-Object the output of the CSV will contain a lot of unwanted data. Later in this tutorial, I will cover Select-Object.

For your reference, below is the output of the CSV file.



While this report is very similar to the output shown in the previous image, it is more useful as a report. You could send the CSV file to your boss!

### **Out-File**

The Out-file Cmdlet sends output to a text file. The command below exports the out of the Get-Command PowerShell Cmdlet to a text file instead of a CSV:

 $\label{lem:command-verb} Get-Command-Verb\ Export\ |\ Select-Object\ CommandType,\ Name,\ Version,\ Source\ |\ Out-File\ C:\ NewFolder\ ExportCommands.txt$ 

Here is the result in a text file: The same report, now in a text file! How good is that!



The Out-File Cmdlet also allows you to append (add) contents to an existing text file. Here is an example.

Get-Command -Verb Export | Select-Object CommandType, Name, Version, Source | Out-File C:\NewFolder\ExportCommands.txt -Append

### 1.3 PowerShell Commands to Manage Processes

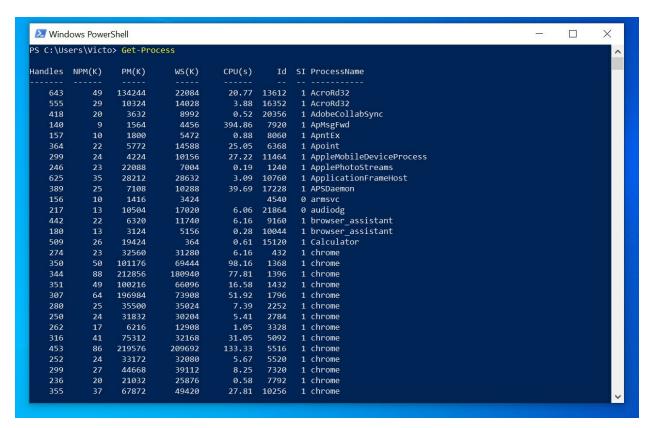
Another set of the most useful PowerShell commands for Windows administrators are Cmdlets to manage Windows processes.

### **Get-Process**

This PowerShell Cmdlet lists all the processes running on a local computer. If you use the *ComputerName* parameter, you can display the processes on a remote computer.

However, when you run the Get-Process PowerShell Cmdlet without any parameter, it returns all processes running on the local computer. To try this, execute the command below. The result is shown in the image below.

**Get-Process** 



### **Start-Process and Stop-Process**

While the Get-Process Cmdlet can list all processes on a computer, the Start-Process Cmdlet can start a stopped process while the Stop-Process Cmdlet can stop a running process.

To start a process, pipe the output of Get-Process command to the Start-Process command.

As an example, to stop a process with ID 10500, use the command below.

Get-Process -Id 10500 | Stop-Process

### Warning!

Use the Stop-Process PowerShell Cmdlet with caution as stopping the wrong process could make your computer unstable.

### 1.4 PowerShell Commands to Manage Event logs

Event log management is one of the most important tasks for Windows Administrators. The next set of PowerShell commands will help you manage event logs.

### Get-EventLog

The Get-EventLog PowerShell Cmdlet gets events in a specified event log. You can get events on a local or remote computer. To get events from a remote computer, use the *-ComputerName* parameter to specify the remote computer. However, note that you will require the right permissions to access the remote computer.

To get the last 5 events logged in the System event log, execute the command below...

Get-EventLog -LogName System -Newest 5

### Tip

*The last command could be used for troubleshooting purposes.* 

### Clear-EventLog

As you would expect there are more event log Cmdlets, but we will cover this 2 for this tutorial.

The Clear-EventLog clears all events in the specified event log. The Cmdlet can clear event logs on both local and remote computers.

The command below clears all events with the name "Windows PowerShell" from the local computer

Clear-EventLog "Windows PowerShell"

To execute the command below, you need to open PowerShell as Administrator - right-click and select Run as Administrator.

# 1.5 PowerShell Commands to Get Computer Information

If you need to collect data about computers on your network - Computer Name, BIOS Version, RAM size, Disk Information, etc - Get-WmiObject PowerShell Cmdlet is your friend! let's explore this powerful Cmdlet, shall we?

### **Get-WmiObject**

Get-WmiObject has a parameter called -Class this allows you to specify the

WMI object you wish to access. The command below will get a list of WMI classes,

Get-WmiObject -List -Class Win32\*

Once you know the name of the WMI class, you can execute Get-WmiObject to return useful information from a local or remote computer. Below is a list of the most important WMI classes you may need:

- Win32\_PhysicalMemory information about available memory
- Win32\_Processor Processor information
- Win32\_LogicalDisk Logical disk drive information
- Win32\_DiskDrive Physical disk information
- Win32\_OperatingSystem Information about the operating system

To get information about the operating system, run the command below:

Get-WmiObject -Class Win32\_OperatingSystem

# 1.6 PowerShell Commands to Connect to Remote PowerShell Sessions

You cannot discuss PowerShell commands without talking about PS remoting. As a Windows Systems Administrator, you will need to remotely connect to computers using PowerShell.

Here are the commands you will need.

### **Enter-PSSession and Exit-PSSession**

The Enter-PSSession PowerShell command allows you to interactively start a remote PS session on a single computer. When you finish with the remote computer, you can end the session with the Exit-PSSession command.

To open a remote PS session to a computer called Computer1, run the command below:

**Enter-PSSession Computer1** 

### **Invoke-Command**

While the Enter-PSSession PowerShell Cmdlet allows you to execute commands on a single remote computer, the Invoke-Command Cmdlet

allows you to execute commands on one or more remote computers.

If you wish to execute Get-Process command on Computer1, Computer2, Computer3, execute this command:

Invoke-Command -ComputerName Computer1, Computer2, Computer3, -ScriptBlock {Get-Process}

### **New-PSSession**

The New-PSSession PowerShell Cmdlet allows you to open a persistent session with a remote computer. Because the session is persistent, it is recommended to add the remote session to a variable.

To open a persistent remote PS session on computers Computer1, Computer2, execute the command below:

\$session = New-PSSession -ComputerName Computer1, Computer2

With the PS session established and stored in the \$session variable, you can execute normal PowerShell commands on the remote session using the Invoke-Command PowerShell Cmdlet.

As a final example in remote PowerShell sessions, to execute the Get-Process on the remote computers, run the command:

Invoke-Command -Session \$\{\text{Processes} = Get-Process}\}

I stored the results of the Get-Process command in a variable called \$Processes because there are multiple computers. Storing the result in a variable makes for easy data manipulation. For example, you could use a ForEach loop to extract and organize the data.

# Chapter 2: 20 Most Useful Command Prompt Commands

Here is my ultimate list of Command Prompt commands for very serious Windows Systems Administrators. For each command, I explain its syntax and parameters. Then I give examples.

The commands are grouped into 5

- 1. **General** Command Prompt Commands
- 2. Commands to **Manage Disks & Partitions**
- 3. Commands to **Copy Files and Folders**
- 4. **System Administration and Reporting** commands and
- 5. Commands for **Managing Files and Folders**.

## 2.0 General Command Prompt Commands HELP

The HELP command provides help information for Windows commands. When you type HELP in cmd without any parameters, it lists and briefly describes all available Windows commands.

```
Comma
                Help
C:\help
For more information on a specific command, type HELP command-name
ASSOC
              Displays or modifies file extension associations.
ATTRIB
              Displays or changes file attributes.
BREAK
              Sets or clears extended CTRL+C checking.
BCDEDIT
              Sets properties in boot database to control boot loading.
CACLS
              Displays or modifies access control lists (ACLs) of files.
CALL
              Calls one batch program from another.
              Displays the name of or changes the current directory.
CHCP
              Displays or sets the active code page number.
              Displays the name of or changes the current directory.
CHDIR
CHKDSK
              Checks a disk and displays a status report.
CHKNTFS
              Displays or modifies the checking of disk at boot time.
CLS
              Clears the screen.
CMD
              Starts a new instance of the Windows command interpreter.
COLOR
              Sets the default console foreground and background colors.
COMP
              Compares the contents of two files or sets of files.
COMPACT
              Displays or alters the compression of files on NTFS partitions.
```

This is very useful if you are trying to find a command but can't remember it.

### **HELP Syntax**

The full syntax of the HELP command is

```
HELP [<command>]
```

Or

[<command>]/?

### Tip

<command> is the Windows command you want to get information about.

### **HELP Parameters**

### **Parameter Description**

<command> Specifies the name of the command prompt command you want
information about

### **HELP Examples**

As an example, to get information about the **DIR** command, type the following command and press enter.

HELP **DIR** 

```
Help dir
Command Pro
C: >Help dir
Displays a list of files and subdirectories in a directory.
DIR [drive:][path][filename] [/A[[:]attributes]] [/B] [/C] [/D] [/L] [/N]
 [/O[[:]sortorder]] [/P] [/Q] [/R] [/S] [/T[[:]timefield]] [/W] [/X] [/4]
 [drive:][path][filename]
             Specifies drive, directory, and/or files to list.
             Displays files with specified attributes.
 attributes D Directories R Read-only files
              H Hidden files
                                            A Files ready for archiving
              S System files
L Reparse Points
                                    I Not content indexed filesPrefix meaning not
 /B
             Uses bare format (no heading information or summary).
             Display the thousand separator in file sizes. This is the
 /C
             default. Use /-C to disable display of separator.
             Same as wide but files are list sorted by column.
Press any key to continue . . .
```

The command below will achieve the same result as **HELP DIR**:

**DIR** /?

### DIR

The **DIR** command displays a list of files and sub-directories in a directory. If you use **DIR** without any parameter, it displays volume label, Volume Serial Number and a list of folders in the current path.

```
C:\>dir
Volume in drive C has no label.
Volume Serial Number is 1471-EE58
Directory of C:\
12/04/2019 14:25
                    <DIR>
                                   $WINDOWS.~BT
27/05/2019 21:32
                    <DIR>
                                   Dropbox
12/04/2019 19:48
                    <DIR>
                                   ESD
07/06/2019
           16:20
                    <DIR>
                                   G-Drive
24/11/2018 14:36
                    <DTR>
                                   Intel
01/06/2019 21:26
                    <DIR>
                                   MoboPlayUserData
                    <DIR>
                                   NewFolder
26/05/2019 20:19
12/04/2018
           00:38
                    <DIR>
                                   PerfLogs
                                   Program Files
01/06/2019 21:43
                    <DIR>
                                   Program Files (x86)
01/06/2019 21:25
                    <DIR>
20/03/2019
           21:32
                    <DIR>
                                   SnapPea
24/11/2018 18:22
                    <DIR>
                                   Users
24/11/2018 18:32
                    <DIR>
                                   Victor
03/05/2019 11:54
                                   WimFiles
                    <DTR>
31/05/2019 21:03
                    <DIR>
                                   Windows
              0 File(s)
                                    0 bytes
             15 Dir(s) 765,492,281,344 bytes free
C:\>
```

### **DIR Syntax**

The full syntax of the DIR command is:

 $DIR [drive:] [path] [filename] [/A[[:]attributes]] [/B] [/C] [/D] [/L] [/N] \quad [/O[[:]sortorder]] [/P] [/Q] [/R] [/S] [/T[[:]timefield]] [/W] [/X] [/4]$ 

For this guide, I will limit the syntax to include parameters that you need to use regularly. Below is the modified syntax for the DIR command.

 $DIR \ [drive:] \ [path] \ [filename] \ [/A[[:]attributes]] \ [/P] \ [/Q] \ [/W] \ [/D] \ [/L] \ /O[[:] < SortOrder >] \ \ [/S] \ ]$ 

### **DIR Parameters**

Parameter	Description
[drive:][path] [filename]	Specifies drive, directory, and/or files to list.
[/A[[:]Attributes]]	Displays files with specified attributes. Click <u>Attributes</u> for more information
	Pauses after each screenful of information. To see the next

/P screen, press any key.

/Q Display file ownership information.

/W Displays the results in a wide list format.

/D Same as /W but files are sorted by column.

/L Displays directory and file names in lowercase (lists are

not sorted).

/O[[:]

SortOrder> Files are listed as defined by SortOrder>

/S Displays all files in the specified directory and all sub-

directories.

### Tip

If /A is used without specifying Attributes, **DIR** displays the names of all files, including hidden and system files. This is very useful if you wish to see hidden files in a directory.

### **DIR Examples**

To display all top directories in drive C in a wide list, use this command below:

DIR/W

To display owners of the files, use the one below:

DIR /Q

Here are the results:

```
Command Prompt
 :\DIR /W
Volume in drive C has no label.
Volume Serial Number is 1471-EE58
 Directory of C:\
[$WINDOWS.~BT]
                                                                         [G-Drive]
                        [Dropbox]
                                                                         [Program Files]
[MoboPlayUserData]
                        [NewFolder]
                                                 [PerfLogs]
                                                                                                  [Program Files (x86)]
[SnapPea]
                                                                         [WimFiles]
                                                                                                  [Windows]
                        [Users]
                0 File(s)
               15 Dir(s) 764,416,573,440 bytes free
C:\DIR /Q
 Volume in drive C has no label.
Volume Serial Number is 1471-EE58
                                                          File Owners
 Directory of C:\
                                       BUILTIN\Administrators $WINDOWS.~BT
DESKTOP-8LUDEEM\Victo Dropbox
12/04/2019 14:25
                       <DIR>
27/05/2019 21:32
                       <DIR>
                                        BUILTIN\Administrators
12/04/2019 19:48
                       <DIR>
                                                                 ESD
07/06/2019 16:20
                       <DIR>
                                                                 G-Drive
                                        BUILTIN\Administrators Intel
BUILTIN\Administrators MoboP
24/11/2018 14:36
                       <DIR>
01/06/2019 21:26
                       <DIR>
                                                                 MoboPlavUserData
26/05/2019 20:19
                                        DESKTOP-8LUDEEM\Victo NewFolder
                       (DIR)
                                        NT AUTHORITY\SYSTEM
                                                                 PerfLogs
12/04/2018 00:38
                       (DIR)
01/06/2019 21:43
                                        NT SERVICE\TrustedInst Program Files
                       <DIR>
01/06/2019 21:25
                                        NT SERVICE\TrustedInst Program Files (x86)
                       <DIR>
                                        BUILTIN\Administrators SnapPea
20/03/2019 21:32
                       <DIR>
24/11/2018
             18:22
                       <DIR>
                                        NT AUTHORITY\SYSTEM
                                                                 Users
24/11/2018 18:32
                       (DIR)
                                                                  Victor
03/05/2019
             11:54
                       <DIR>
                                        DESKTOP-8LUDEEM\Victo
                                                                 WimFiles
31/05/2019 21:03
                       <DIR>
                                       NT SERVICE\TrustedInst aWindows
                0 File(s)
                                         0 bytes
               15 Dir(s) 764,416,610,304 bytes free
C:\>
```

### CHDIR (CD)

**CD** is the short version of **CHDIR**. **CHDIR** displays the name of or changes the current directory to another directory.

### **CHDIR Syntax**

CHDIR [/D] [drive:] [path]

Or

CHDIR [..]

### Tip

".." changes to the parent directory.

### **CD** Parameters

### **Parameter Description**

/D Changes the current drive as well as the current directory for a drive.

[drive:] Specifies the drive to display or change to. (if different from the current drive).

[path] Specifies the path to the directory that you want to display or change to.

[..] Tells command prompt to change to the parent folder of the current directory.

### CD Examples

In the example below, I want to change from my current directory (\Victor) to the parent directory C:\

CD ..

To change to the directory, C:\G-Drive\flatsome, enter the command:

CD C:\G-Drive\flatsome

Results...



# 2.1 Command Prompt Commands to Manage Disks & Partitions

The next set of command prompt commands are used to check your disk for errors, fix problems with your disk or format disks.

### **CHKDSK**

Checks the file system and file system metadata of a disk volume for logical and/or physical errors. It then displays a status report.

### **CHKDSK Syntax**

The full syntax is:

CHKDSK [<volume>[[<path>]filename]]] [/F] [/V] [/R] [/X] [/I] [/C] [/L[:size]] [/B] [/scan] [/spotfix]

I will only discuss parameters that you will require to use often. Below is the modified syntax I will discuss in this guide:

CHKDSK [volume[[path]filename]]] [/F] [/R] [/X] [/B] [/SCAN]

### Tip

If you use CHKDSK without specifying any parameters, it displays just the status of the volume without fixing any errors. Running CHKDSK requires admin permission.

### **CHKDSK Parameters**

### **Parameters Description**

<volume></volume>	Specifies the drive letter (followed by a colon), mount point, or volume name.
[ <path>] <filename></filename></path>	Specifies the location and name of a file or set of files that you want <b>CHKDSK</b> to check for fragmentation.
/F	Fixes errors on the disk. The disk cannot be used by another process. If the disk is in use by another process, you will be prompted to fix errors at the next reboot.
/R	Locates bad sectors and recovers readable information. If the /scan option is not specified /R implies /F.
/X	Performs a less vigorous check of index entries. /X applies to NTFS only.
/B	Re-evaluates bad clusters on the volume. /B implies /R and only applies to NTFS volumes.
	ATTERED IN THE STATE OF THE STA

[/SCAN] NTFS only - Runs an online scan on the volume.

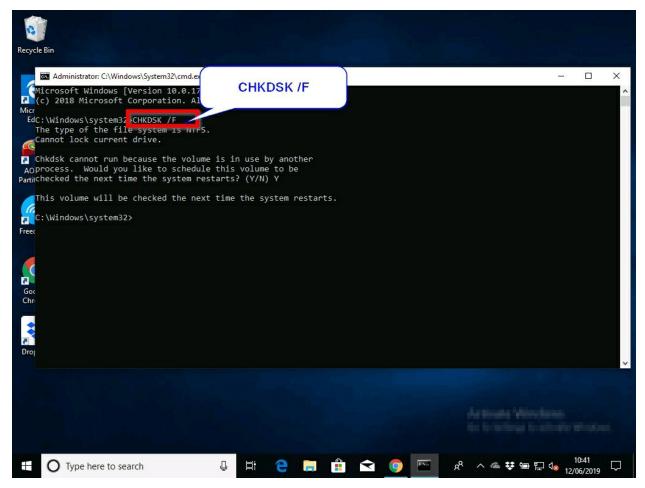
### CHKDSK Examples

To find physical disk errors in the file system and attempt to recover data from any disk with bad sectors, run the command:

CHKDSK /F

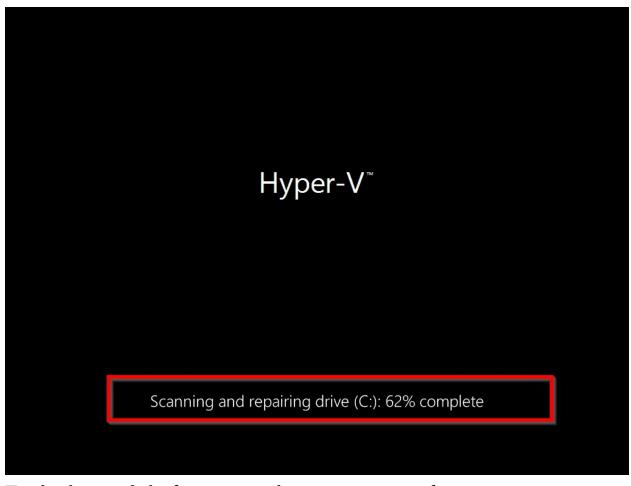
### Tip

To run the previous command, you MUST open a command prompt as administrator. To open CMD as administrator: Search for cmd, right-click it and click Run as administrator.



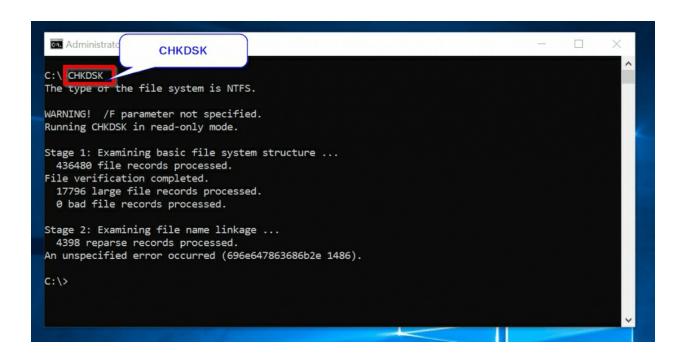
From the last command, because I ran **CHKDSK** on a system volume (Drive C:), I received the message "chkdisk cannot run...". To run **CHKDSK** on the next reboot, enter **Y**. Then press Enter. Reboot your computer.

When I reboot my computer, **CHKDSK** is scanning and repairing my drive.



To check your disks for errors without attempting to fix errors, run **CHKDSK** without any parameter.

CHKDSK



### **CHKNTFS**

This is one of the most ignored command prompt commands. **CHKNTFS** is as important as **CHKDSK**. The difference is that **CHKNTFS** displays or modifies the checking of disk at boot time while **CHKDSK** can run when the Operating System is running.

### **CHKNTFS** Syntax

CHKNTFS volume [...]

CHKNTFS /D

CHKNTFS /T[:time]

CHKNTFS /X volume [...]

CHKNTFS /C volume [...]

### Tip

If CHKNTFS is used without specifying parameters, it will show if the specified drive is dirty or scheduled to be checked on the next reboot.

### **CHKNTFS** Parameters

### **Parameters Description**

volume	Specifies the drive letter (then a colon), volume name or mount point.
/D	Restores the computer to the default behavior; all drives are checked the next time the computer reboots. <b>CHKNTFS</b> will then run on all drives that are marked as dirty.
/T:time	Changes the <u>AUTOCHK</u> initiation countdown time to the specified amount of time in seconds. If time is not specified, it displays the current setting.
/X	Used to define drives excluded from the default boot-time check.
/C	Schedules a drive to be checked at boot time; <b>CHKDSK</b> will then run if the drive is dirty.

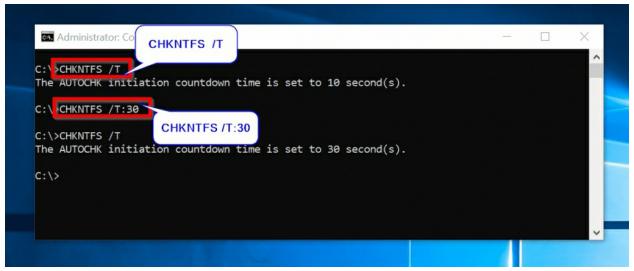
### **CHKNTFS** Examples

To see the Autochk.exe initiation countdown time for a computer: CHKNTFS /T

If you wish to modify the initiation countdown time for Autochk.exe to 30

### secs:

### CHKNTFS /T:30



### DISKPART

DISKPART command is used to manage disks, partitions, volumes, or virtual hard disks. **DISKPART** loads its interface within cmd. For this reason, it does not operate like other command prompt commands.

### **DISKPART** commands

DISKPART has a long list of commands you can run. Below, I have listed the commands that you will need for most disk management tasks:

**HELP**: Displays all DISKPART commands.

**LIST**: Display a list of objects

**SELECT**: Shift the focus to an object - makes the object available for editing

**RESCAN**: Rescan your PC for new disks and volumes.

**COMPACT**: Attempts to reduce the physical size of a specified file.

**ACTIVE**: Mark the selected partition as active.

**ASSIGN**: Assigns a drive letter or mount point to the selected volume.

**ATTACH**: Attaches a virtual disk file.

**DETACH**: Detaches a virtual disk file.

**CONVERT**: Convert between different disk formats (FAT, FAT32, NTFS).

**CREATE**: Creates a volume, partition or virtual disk.

**DELETE**: Deletes an object.

**EXIT**: Exit DISKPART.

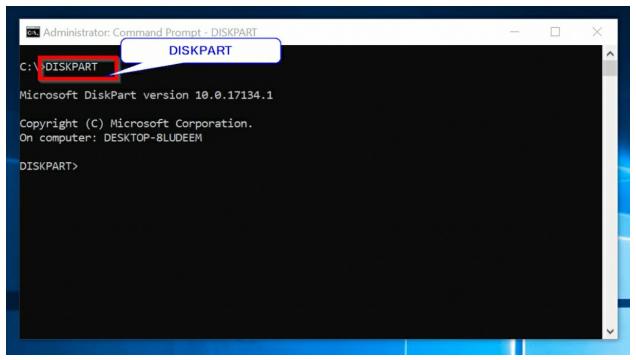
**EXTEND**: Extend a volume.

**FORMAT**: Formats the selected volume or partition.

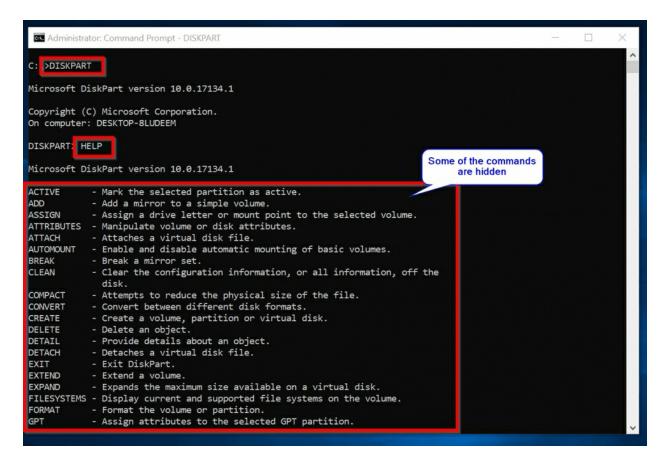
For a full list of all DISKPART commands, execute HELP within the DISKPART interface. More on this later. You could also get the full list of DISKPART commands by clicking <u>DiskPart commands</u>.

To get into the DISKPART command interface, execute the command below: DISKPART

The DISKPART command prompt will load:



To list all available commands, run the HELP command:



### **DISKPART** Examples

Once you get into DISKPART, run the **LIST DISK** command LIST DISK

This will display all available disks on your computer

```
DISKPART: LIST DISK

Disk ### Status Size Free Dyn Gpt

Disk 0 Online 931 GB 0 B *
Disk 1 Online 29 GB 6144 KB
```

Next, to work on disk 0, execute:

SELECT DISK 0

DISK 0 is now selected

```
DISKPART SELECT DISK 0
DISK 0 is now the selected disk.
DISKPART>
```

To view available partitions on disk 0, run this command:

LIST PARTITION

To work on Partition 4, for example, run:

**SELECT Partition 4** 

Below are the result of both commands:

```
DISKPART> LIST PARTITION

Partition ### Type Size Offset

Partition 1 Recovery 499 MB 1024 KB
Partition 2 System 100 MB 500 MB
Partition 3 Reserved 16 MB 600 MB
Partition 4 Primary 930 GB 616 MB

DISKPART> SELECT Partition 4

Partition 4 is now the selected partition.
```

You can then DELETE the selected partition. I believe you get the gist now.

### **FORMAT**

This command formats a disk for use with Windows. Most people normally format a disk using Disk Management. For administrators, using the FORMAT command may sometimes be necessary.

### FORMAT Syntax

FORMAT has a long list of parameters. For this guide, I will stick to the commonly used parameters as shown in the syntax below:

FORMAT volume [/FS:file-system] [/V:label] [/Q]

### **FORMAT Parameters**

<b>Parameters</b>	Description
volume	Specifies the drive letter. Must specify a colon after the drive letter. volume parameter may also specify mount point or volume name.
/FS:filesystem	Specifies the type of the file system for format the drive for. Available options are FAT, FAT32, exFAT, NTFS, UDF and ReFS.
/V:label	Specifies the volume label.
/Q	Performs a quick format.

### FORMAT Examples

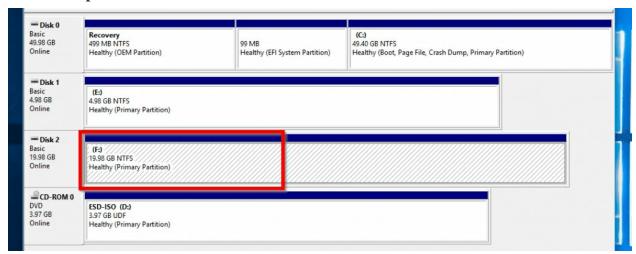
To format the volume highlighted in the image below with the NTFS file system, and a volume label "FORMAT-Test", then perform a quick format, use the command:

FORMAT F: /FS:NTFS /Q /V:FORMAT-Test

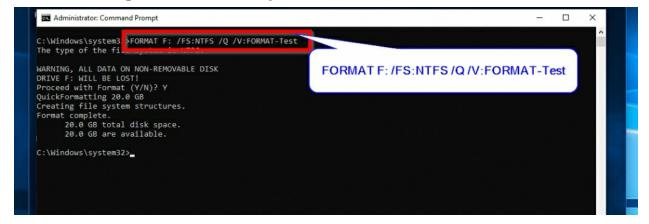
### Tip

To use the FORMAT command, you MUST open a command prompt as Administrator.

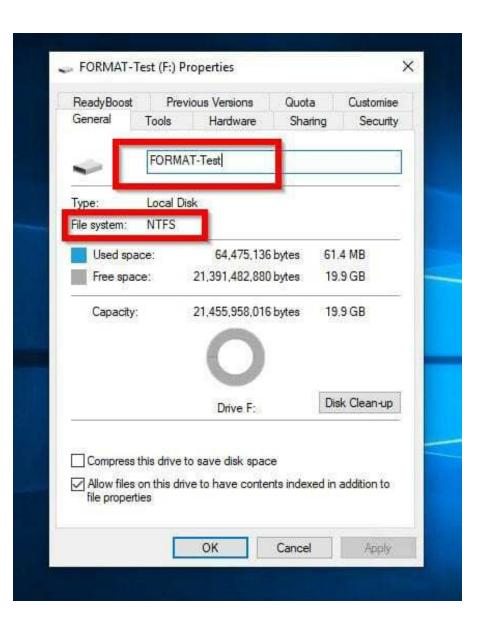
From the previous command, the volume is now formatted.



When you click Enter to run the last command you will be asked to confirm. Enter **Y**, then press the Enter key. See the result of the command below:



The disk is formatted as NTFS with volume label "FORMAT-Test"



## 2.2 Command Prompt Commands to Copy Files and Folders

In this category, I will discuss three commands: COPY, XCOPY, and ROBOCOPY.

#### **COPY**

This command copies one or more files to another location.

### **COPY Syntax**

```
 \begin{tabular}{ll} $\text{COPY [/D] [/V] [/N] [/Y | /-Y] [/Z] [/L] [/A | /B ] source [/A | /B] [+ source [/A | /B] [+ ...]] \\ $\text{[destination [/A | /B]]} \\ \end{tabular}
```

Like some command prompt commands I discussed earlier in this guide, the COPY command has a lot of parameters. But I will only discuss the most relevant parameters. Below is a shortened syntax.

```
COPY <Source> <Destination> [/Y] COPY <Source> <Destination> /-Y
```

#### **COPY Parameters**

## **Parameters Description**

<Source> Specifies the file or files to be copied.

<destination> Specifies the directory and/or filename for the new file(s).

Suppresses prompting you to confirm whether you want to

overwrite an existing destination file or not.

/-Y Causes prompting to confirm you want to overwrite an

existing destination file.

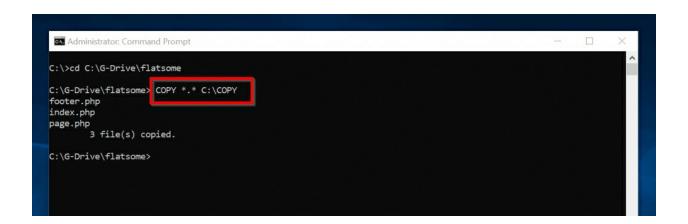
### **COPY** Examples

To copy all files in the current directory to a new directory, use the command below:

```
COPY *.* C:\COPY
```

#### Note

*In the last command, C:\COPY is the destination directory* 



#### **XCOPY**

Copies files and directories, including sub-directories. **XCOPY** has more advanced features than **COPY**.

## **XCOPY Syntax**

#### Full syntax

XCOPY source [destination] [/A | /M] [/D[:date]] [/P] [/S [/E]] [/V] [/W] [/C] [/I] [/Q] [/F] [/L] [/G] [/H] [/R] [/T] [/U] [/K] [/N] [/O] [/X] [/Y] [/-Y] [/Z] [/B] [/J] [/EXCLUDE:file1[+file2] [+file3]...]

#### Shortened version with mostly used parameters

XCOPY source [destination] [/A] [/M] [/D:m-d-y] [/EXCLUDE:file1[+file2][+file3]...] [/S] [/E] [/Y] [/-Y]

#### Tip

To see a full list of all XCOPY parameters and what they do, run the command *HELP XCOPY*.

#### **XCOPY Parameters**

Parameters	Description			
source	Specifies the file(s) to copy.			
destination	Specifies the location and/or name of new files.			
/A	Copies only files with the archive attribute set, doesn't change the attribute.			
/M	Copies only files with the archive attribute set, turns off the archive attribute.			
/D:m-d-y	Copies files changed on or after the specified date. If no date is given, copies only those files whose source time is newer than the destination time.			
/EXCLUDE:file1[+file2] Specifies a string defining files to be excluded				
[+file3]]	from being copied.			
/S	Copies directories and sub-directories except for empty ones.			
/E	Copies directories and sub-directories, including empty ones.			
/C	Ignores errors and continues copying.			
	Stops XCOPY prompting you to confirm for the			

/Y destination file to be overwritten.

/-Y parameter makes XCOPY prompt confirmation for an existing destination file to be overwritten.

## **XCOPY** Examples

If you automatically update a report, you may want to copy report files that are have changed since a particular date. The command below will copy all files that have changed since May 20, 2019.

XCOPY \BackReports \Current /D:05-20-2019

#### **ROBOCOPY**

This is an even more advanced copy command.

## **ROBOCOPY Syntax**

ROBOCOPY <source> <destination> [file [file]...] [options]

#### **ROBOCOPY Parameters**

#### **Parameters Description**

<Source> Used to define the path to the source folder.

<Destination> This is the path to the destination folder or directory.

[file [file] Specifies the file or files to be copied. Wildcard characters (\*

or ?) are supported.

[options] Specifies options to be used with the ROBOCOPY command.

For a full list of all parameters, open a command prompt and run the command below;

HELP ROBOCOPY

The command will return detailed information about ROBOCOPY. Alternatively, click the <u>ROBOCOPY</u> link to read about the command.

# 2.3 Command Prompt Commands for System Administration and Reporting

These set of command prompt commands are useful for advanced system administration. Here they are.

#### **SCHTASKS**

This command is used to **create**, **delete**, **query**, **change**, **run** or **end** scheduled tasks on a local or remote system. To run **SCHTASKS** you require administrator privilege.

## SCHTASKS Syntax

SCHTASKS /parameter [arguments]

#### **SCHTASKS** Parameter Lists

#### **Parameters Description**

/Create Use this parameter to create a new scheduled task.

/Delete Opposite of /Create, the /Delete parameter deletes an existing

scheduled task(s).

/Query Lists all available scheduled tasks.

/Run This switch runs a specified scheduled task.

/Change Changes the properties of a specified scheduled task

/End Ends a currently running scheduled task

/ShowSid Shows the security identifier corresponding to a scheduled task

name.

To get help with how to use a parameter, enter SCHTASKS followed by the parameter. Then end with "/?". For example, to learn how to use the /Create parameter, run the command below:

SCHTASKS /Create /?

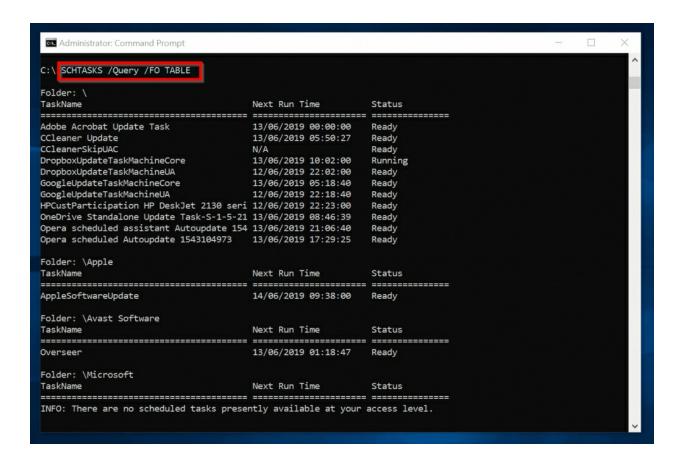
This will give you a full list of all the [arguments] for the /Create parameter and how to use them.

#### SCHTASKS Examples

To get a full list of all the scheduled tasks on your computer, use this command:

SCHTASKS /Query /FO TABLE

The result...s



#### **SYSTEMINFO**

This is one of the command prompt commands that I use very often. SYSTEMINFO displays operating system configuration information for a local or remote computer. The information displayed includes service pack and patch levels.

#### SYSTEMINFO Syntax

SYSTEMINFO [/S system [/U username [/P [password]]]] [/FO format] [/NH]

#### SYSTEMINFO Parameters

#### **Parameters Description**

/S system Used to specify a remote computer to connect to.

/U Specifies a user with admin privilege to connect to the remote

username computer and run commands.

/P

[password] The password for the username specified with the /U parameter

/FO format

Specifies the format in which the output is to be displayed.

Acceptable values: TABLE, LIST or CSV.

If used, the output will not display the "Column Header" in the

/NH output. /NH is only valid if /FO is used and TABLE and CSV

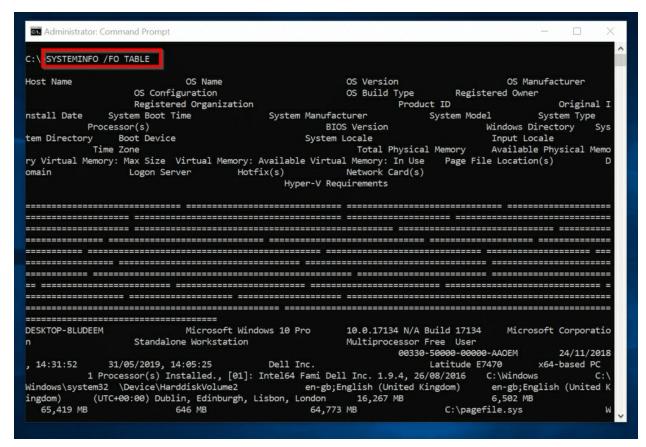
formats are specified.

#### **SYSTEMINFO** Examples

To display system information for your computer and display output in a table, use this SYSTEMINFO command:

SYSTEMINFO /FO TABLE

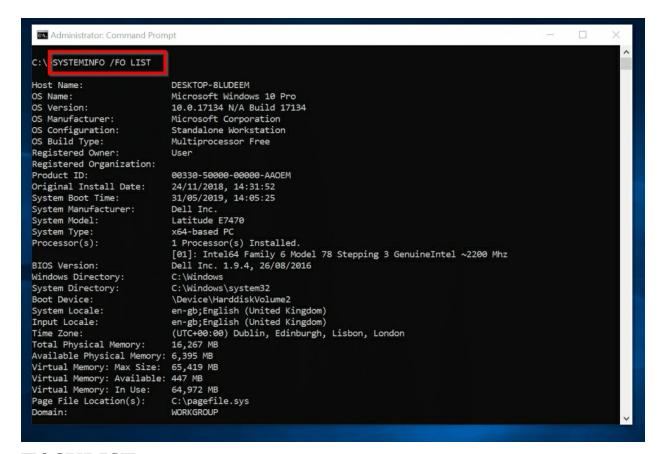
The output is not very readable!



I may also display the result in a LIST format:

SYSTEMINFO /FO LIST

Gives a better result



#### **TASKLIST**

Displays a list of all currently running processes on the local computer. It can also display processes on a remote computer.

## TASKLIST Syntax

TASKLIST [/S system [/U username [/P [password]]]] [/M [module] | /SVC | /V] [/FI filter] [/FO format] [/NH]

#### TASKLIST Parameters

The description of the parameters: /S system, /U username, /P [password], /FO format and /NH are the same for the same parameters in the SYSTEMINFO command. Please read about this parameters in <a href="SYSTEMINFO">SYSTEMINFO</a> (opens in a new window/tab).

The remaining parameters for TASKLIST are described in the table below:

#### **Parameters Description**

/M [module] Lists all tasks currently running processes using the given exe/dll name. If the module name is not specified all loaded modules are displayed.

/SVC Displays services hosted in each process.

/V Displays verbose task information - shows the tasks as they are

being displayed.

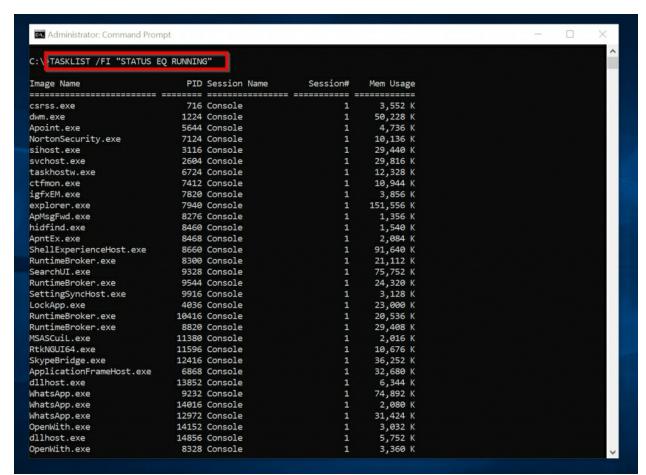
/FI filter Displays a set of tasks that match the given criteria specified by

the filter.

## **TASKLIST Examples**

To display currently running processes on your computer, run the command below.

TASKLIST /FI "STATUS EQ RUNNING"



To export all running processes to CSV, use this command:

TASKLIST /FI "STATUS EQ RUNNING" /FO CSV > C:\G-Drive\flatsome\TASKLIST-csv

Here is what the CSV looks like

1	А	В	С	D	E
1	Image Name	PID	Session Name	Session#	Mem Usage
2	csrss.exe	716	Console	1	4,032 K
3	dwm.exe	1224	Console	1	61,852 K
4	Apoint.exe	5644	Console	1	4,576 K
5	NortonSecurity.exe	7124	Console	1	10,316 K
6	sihost.exe	3116	Console	1	29,468 K
7	svchost.exe	2604	Console	1	30,820 K
8	taskhostw.exe	6724	Console	1	12,920 K
9	ctfmon.exe	7412	Console	1	12,148 K
10	igfxEM.exe	7820	Console	1	3,852 K
11	explorer.exe	7940	Console	1	170,712 K
12	ApMsgFwd.exe	8276	Console	1	1,340 K
13	hidfind.exe	8460	Console	1	1,500 K
14	ApntEx.exe	8468	Console	1	2,084 K
15	ShellExperienceHost.exe	8660	Console	1	91,728 K
16	RuntimeBroker.exe	8300	Console	1	21,228 K
17	SearchUI.exe	9328	Console	1	75,648 K
18	RuntimeBroker.exe	9544	Console	1	24,072 K
19	SettingSyncHost.exe	9916	Console	1	2,196 K
20	LockApp.exe	4036	Console	1	22,976 K
21	RuntimeBroker.exe	10416	Console	1	20,496 K
22	TASKLIST-examp	ole	( <del>+</del> )		20.2241/

#### **TASKKILL**

Terminate tasks by process id (PID) or image name.

## TASKKILL Syntax

TASKKILL [/S system [/U username [/P [password]]]] { [/FI filter] [/PID processid | /IM imagename] } [/T] [/F]

#### **TASKKILL Parameters**

Like TASKLIST, the description of the parameters: /S system, /U username and /P are the same for the same parameters in the SYSTEMINFO command. Please read about this parameter click <a href="SYSTEMINFO">SYSTEMINFO</a> (opens in a new

window/tab).

The parameter table below describes TASKKILL parameters that have not been described in this guide.

## **Parameters Description**

/FI filter Used to apply a filter to select a set of tasks. Allowed filters: "\*"

to be used. ex. imagename eq acme\*

/PID Specifies the PID of the process to be terminated. You can use

processid the TASKLIST command to get the PID of the process.

/IM Specifies the image name of the process to be terminated. You

imagename can use wildcard '\*' to specify all tasks or image names.

This parameter tells TASKKILL to terminate the specified

process and any child processes started by the original process.

/F If /F is used, it forcefully terminates the specified process.

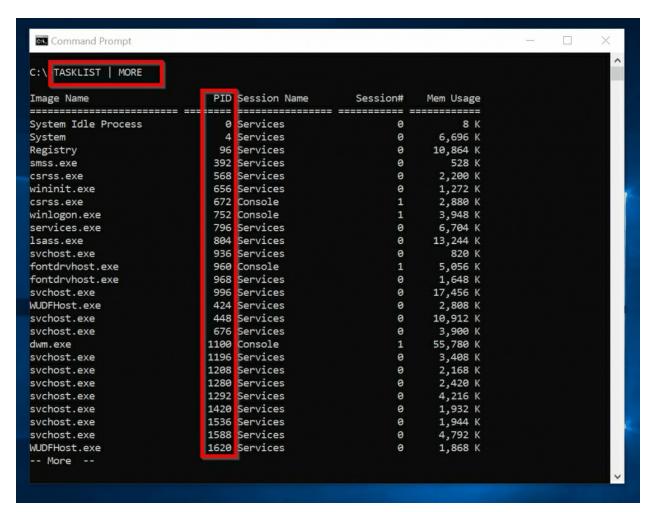
## Warning!

Use TASKKILL with caution as terminating certain processes could make your Operating System unstable. Specifically, be careful with using wildcard "\*".

## TASKKILL Examples

If you wish to terminate processes based on process ID, run the TASKLIST command and pipe it to the <u>MORE</u> command.

TASKLIST | MORE



To terminate processes with IDs 960, 996 and 936, use the command below TASKKILL /PID 960 /PID 996 /PID 936

#### **SHUTDOWN**

Used to shut down or restart a local or remote computer.

#### **SHUTDOWN Syntax**

 $SHUTDOWN \ [/I \ | \ /L \ | \ /SG \ | \ /R \ | \ /G \ | \ /A \ | \ /P \ | \ /H \ | \ /E \ | \ /O] \ [/Hybrid] \ [/Soft] \ [/FW] \ [/F] \ [/M \ \ \ \ ] \ [/FW] \ [/F$ 

#### **SHUTDOWN** Parameters

## **Parameters Description**

**/**T

The /I switch displays Remote Shutdown GUI dialogue with options to specify remote computers to shutdown. The /I switch must be the first option in a SHUTDOWN command. See SHUTDOWN examples below.

/L	Logs the computer off. This cannot be used with /M or /D options.
/S	Shutdowns the computer.
/SG	Shutdown the computer. On the next boot, restart any registered applications.
/R	Shutdown and restart the computer.
/G	Full shutdown and restart the computer. After the system is rebooted, restart any registered applications.
/A	Abort a system shutdown. This can only be used during the time-out period. Combine with /FW to clear any pending boots to firmware.
/P	Turn off the local computer with no time-out or warning. It can be used with /D and /F parameters.
/H	Hibernate the local computer. It can be used with the /F switch.
/E	Document the reason for an unexpected shutdown of a computer.
/O	Go to the advanced boot options menu and restart the computer. Must be used with /R option.
/Hybrid	Performs a shutdown of the computer and prepares it for a fast startup. Must be used with /S switch.
/FW	Combine with a shutdown option (/S) to cause the next boot to go to the firmware user interface.
/F	Force running applications to close without forewarning users. The /F parameter is implied when a value greater than 0 is specified for the /T parameter.
/M \\Computer	Specify a target remote computer.
/T xxx	Set the time-out period before shutdown to xxx seconds. The default is 30s with a max value of 315360000s (10 years).

## **Important Information**

I left out /D [P|U:]xx:yy] and /C ["comment"] parameters as you may not need them often.

## Tip

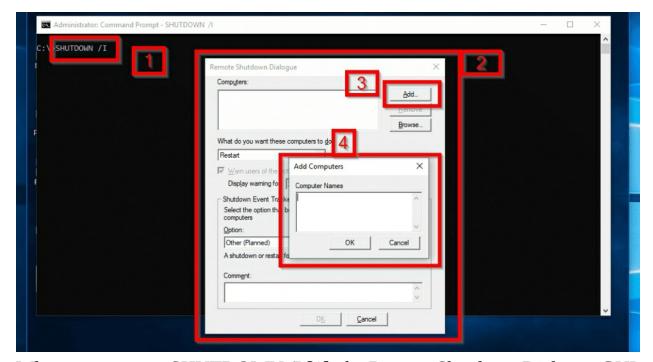
If you run SHUTDOWN without specifying any parameter, it will display

help. Running SHUTDOWN without specifying any parameter is like typing "SHUTDOWN /?".

## SHUTDOWN Examples

To display a dialogue box with options to shutdown specified computers, simply use SHUTDOWN with /I switch:

SHUTDOWN /I



When you execute SHUTDOWN /I [1], the Remote Shutdown Dialogue GUI opens [2]. To add computers, click **Add** [3], this opens the Computer Names box [4]. When you finish adding the computers, click Ok. Then Ok to shut them down.

#### **DRIVERQUERY**

This is another very important but often ignored command prompt commands. An administrator can use DRIVERQUERY to display a list of installed device drivers on a local or remote computer.

## **DRIVERQUERY Syntax**

DRIVERQUERY [/S system [/U username [/P [password]]]] [/FO format] [/NH] [/SI] [/V]

#### **DRIVERQUERY** Parameters

/S Specifies a remote computer to connect to.

/U Used to specify a user name with permission to connect to the username remote computer.

/P password Specifies the password for the user above.

/FO Specifies the type of output to display. Acceptable formats:

format "TABLE", "LIST" or "CSV", without the quotes.

/NH Removes the column headers from the output.

/SI Provides information about signed drivers.

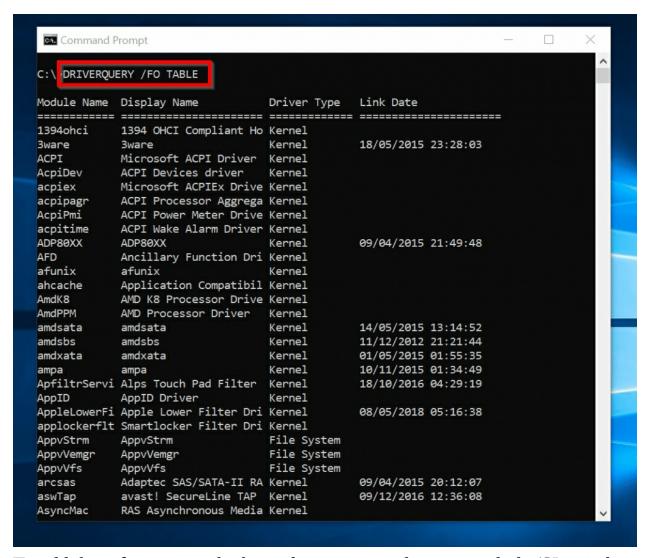
/V Displays verbose output. Not valid for signed drivers.

#### **DRIVERQUERY** Examples

To list all drivers on your computer and display the result in a tabular format, use the command below:

DRIVERQUERY /FO TABLE

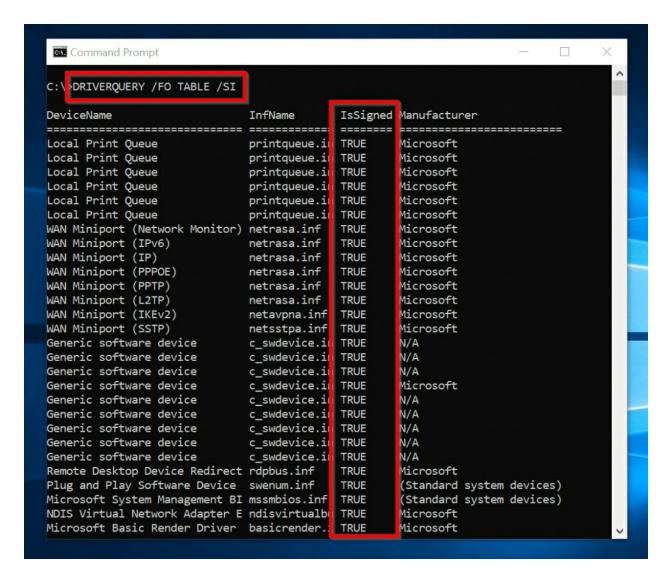
Here is the result...



To add the information whether a driver is signed or not, include /SI switch to the previous command:

DRIVERQUERY /FO TABLE /SI

A new column, "IsSigned" is now included.



#### Tip

*In the above result, if IsSigned is FALSE, it means the driver is NOT signed.* 

## 2.4 Command Prompt Commands for Managing Files and Folders

These sets of command prompt commands are used to rename, move or delete files and folders.

#### **RENAME (REN)**

Renames a file or files. The short version of the command is REN.

## RENAME Syntax

RENAME [drive:][path] filename1 filename2.

REN [drive:][path] filename1 filename2.

#### Tip

RENAME command does not allow you to specify a new drive or path for your destination file.

#### **RENAME** Parameters

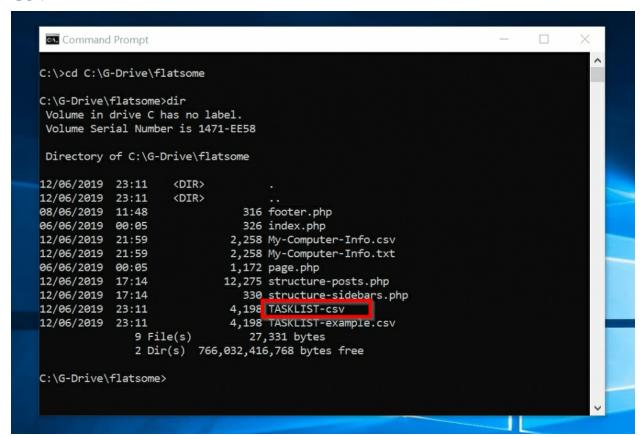
#### **Parameters Description**

[drive:] Specifies the location and name of the file or set of files you want to rename. *FileName1* can include wildcard characters (\* and ?).

filename2 The new name of the file

## RENAME Examples

In the image below, I want to rename the file "TASKLIST-csv" to "New-CSV"



Here is the command I used:

RENAME TASKLIST-csv New-CSV

#### Here is the result:

```
Command Prompt
                                27,331 bytes
              2 Dir(s) 766,032,416,768 bytes free
C:\G-Drive\flatsome RENAME TASKLIST-csv New-CSV
C:\G-Drive\flatsome>dir
Volume in drive C has no label.
Volume Serial Number is 1471-EE58
Directory of C:\G-Drive\flatsome
13/06/2019 12:19
                    <DIR>
13/06/2019 12:19
                    <DIR>
08/06/2019 11:48
                               316 footer.php
06/06/2019 00:05
                               326 index.php
12/06/2019 21:59
                             2,258 My-Computer-Info.csv
12/06/2019 21:59
                             2,258 Mv-Computer-Info.txt
12/06/2019 23:11
                             4,198 New-CSV
06/06/2019 00:05
                             1,172 page.pnp
12/06/2019 17:14
                            12,275 structure-posts.php
12/06/2019
           17:14
                               330 structure-sidebars.php
12/06/2019 23:11
                             4,198 TASKLIST-example.csv
              9 File(s)
                               27,331 bytes
              2 Dir(s) 766,034,436,096 bytes free
C:\G-Drive\flatsome>
```

#### MKDIR (MD)

Creates a directory or folder. The short version is MD.

#### **MKDIR Syntax**

MKDIR [drive:]path MD [drive:]path

path

#### MKDIR Parameters

#### **Parameters Description**

[drive:] Specifies the drive on which you want to create the new

directory.

This is a required parameter. It specifies the name and location of the new directory. The maximum length of any single path is

determined by the file system (FAT, FAT32 or NTFS).

#### MKDIR Examples

To create a folder called MDTest in the path "C:\G-Drive\flatsome", run the

#### command below:

MKDIR C:\G-Drive\flatsome\MDTest

#### The results:

```
Command Prompt
   MKDIR C:\G-Drive\flatsome\MDTest
C:\>cd G-Drive\flatsome
C:\G-Drive\flatsome>dir
 volume in drive c has no label.
 Volume Serial Number is 1471-EE58
 Directory of C:\G-Drive\flatsome
13/06/2019 12:29
                     <DIR>
13/06/2019 12:29
                     <DIR>
08/06/2019 11:48
                                316 footer.php
06/06/2019 00:05
                                326 index.php
13/06/2019 12:29
12/06/2019 21:59
                     <DIR>
                                MDTest
                              2,258 My-Computer-Info.csv
12/06/2019 21:59
                              2,258 My-Computer-Info.txt
                              4,198 New-CSV
12/06/2019 23:11
06/06/2019 00:05
                              1,172 page.php
12/06/2019 17:14
                             12,275 structure-posts.php
12/06/2019 17:14
                                330 structure-sidebars.php
                              4,198 TASKLIST-example.csv
12/06/2019 23:11
               9 File(s)
                                 27,331 bytes
               3 Dir(s) 765,798,375,424 bytes free
C:\G-Drive\flatsome>
```

#### **MOVE**

The MOVE command moves files and folders (directories). It also renames files and folders.

#### **MOVE Syntax**

Syntax to rename a file

MOVE [/Y | /-Y] [drive:][path]filename1[,...] destination

Syntax to a directory (folder)

MOVE~[/Y~|~/-Y]~[drive:][path] dirname1~dirname2

#### **MOVE Parameters**

### **Parameters Description**

[drive:] Specifies the location and name of the file or files you want

[path]filename1 to move.

destination Specifies the new location of the file.

[drive:]

[path]dirname1 Specifies the directory you want to rename.

dirname2 Specifies the new name for dirname1.

Suppresses prompting to confirm you want to overwrite an

existing destination file.

/-Y Causes prompting to confirm you want to overwrite an

existing destination file.

#### Tip

For the file **destination** parameter, "destination" can be a drive letter and colon, a directory name, or a combination of both. If you are moving only one file and want to rename the file when you move it, you can also include a filename.

## **MOVE Examples**

In this example, I want to rename MDTest (highlighted in the image below) to MDTest2

```
Command Prompt
C:\>cd C:\G-Drive\flatsome
C:\G-Drive\flatsome>dir
Volume in drive C has no label.
Volume Serial Number is 1471-EE58
Directory of C:\G-Drive\flatsome
13/06/2019 12:29
                    <DIR>
13/06/2019 12:29
                    <DIR>
08/06/2019 11:48
                               316 footer.php
06/06/2019 00:05
                               326 index.php
13/06/2019 12:29
                    <DIR>
                                 MDTest
12/06/2019 21:59
                             2,258 My-Computer-Info.csv
12/06/2019 21:59
                             2,258 My-Computer-Info.txt
                            4,198 New-CSV
12/06/2019 23:11
06/06/2019 00:05
                            1,172 page.php
12/06/2019 17:14
                            12,275 structure-posts.php
12/06/2019 17:14
                             330 structure-sidebars.php
12/06/2019 23:11
                             4,198 TASKLIST-example.csv
              9 File(s)
                                27,331 bytes
              3 Dir(s) 765,790,781,440 bytes free
C:\G-Drive\flatsome>
```

Here is the command:

MOVE MDTest MDTest2

Here is the result:

```
Command Prompt
                3 Dir(s) 765,790,781,440 bytes free
C:\G-Drive\flatsom >MOVE MDTest MDTest2
         1 dir(s) moved.
C:\G-Drive\flatsome>dir
 Volume in drive C has no label.
 Volume Serial Number is 1471-EE58
 Directory of C:\G-Drive\flatsome
13/06/2019 12:52
                      <DIR>
13/06/2019 12:52
08/06/2019 11:48
06/06/2019 00:05
                                  316 footer.php
                                  326 index.php
13/06/2019 12:29
12/06/2019 21:59
12/06/2019 21:59
12/06/2019 23:11
                      <DIR>
                                     MDTest2
                                2,258 my-computer-Info.csv
                               2,258 My-Computer-Info.txt
                                4,198 New-CSV
06/06/2019 00:05
                               1,172 page.php
12/06/2019 17:14
                               12,275 structure-posts.php
12/06/2019 17:14
12/06/2019 23:11
                                 330 structure-sidebars.php
                                4,198 TASKLIST-example.csv
                9 File(s)
                                  27,331 bytes
                3 Dir(s) 765,794,361,344 bytes free
C:\G-Drive\flatsome>
```

#### Tip

In the previous command, I did not need to specify the [drive:][path] because I wanted the command performed in the directory I was running the command from. The folder I was renaming was in the same directory.

## **ERASE (DEL)**

This is the final in my ultimate list of command prompt commands. ERASE command deletes one or more files.

ERASE is the same as DEL command.

#### Warning!

Use ERASE (DEL) with caution as the command may delete important Operating System files depending on how you use it. If you use **DEL** or **ERASE** to delete a file from your computer, you cannot retrieve the file.

## ERASE (DEL) Syntax

ERASE [/P] [/F] [/S] [/Q] [/A[[:]attributes]] names DEL [/P] [/F] [/S] [/Q] [/A[[:]attributes]] names

#### ERASE (DEL) Parameters

#### **Parameters Description**

/P Asks for confirmation before deleting each file.

/F Force deleting of files marked as read-only.

/S Delete specified files from all sub-directories.

The quiet mode does not ask if ok to delete when a global

/Q wildcard is used. If you use /Q switch, all files will be deleted

without prompting you for confirmation. [Use with caution!]

/A Selects files to delete based on file attributes.

attributes See below for acceptable attributes\*.

Specifies a list of one or more files or directories. Wildcards

names may be used to delete multiple files. If a directory is specified,

all files within the directory will be deleted.

R Read-only files

S System files

H Hidden files

A Files ready for archiving

I Not content indexed Files

L Reparse Points

- Prefix meaning not

#### ERASE (DEL) Examples

TO delete all files in the current directory but prompt you for confirmation, use the command:

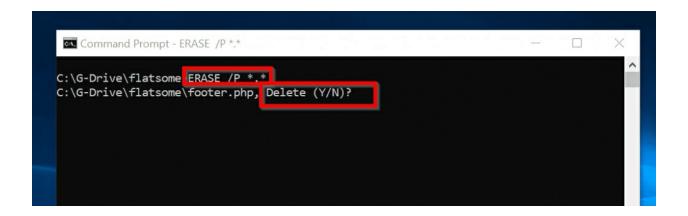
ERASE /P \*.\*

#### Tip

\*.\* is a wildcard meaning delete every file in the current directory

When you press Enter key, for each file you will be asked to confirm with **Y** or **N**. Here is the result:

<sup>\*</sup>Acceptable attributes of the /A parameter:



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