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Slot: L23 + L24

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LAB-4

POWERCFG ENERGY

Microsoft Windows [Version 10.0.19041.804] (c) 2020 Microsoft Corporation. All rights reserved.

C:\Windows\system32>powercfg /energy Enabling tracing for 60 seconds... Observing system behavior... Analyzing trace data... Analysis complete.

Energy efficiency problems were found.

7 Errors 8 Warnings 38 Informational

See C:\Windows\system32\energy-report.html for more details.

C:\Windows\system32>

Power and Attrib Commands

Microsoft Windows [Version 10.0.19041.804] (c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\user>powercfg /?

POWERCFG /COMMAND [ARGUMENTS]

Description:

Enables users to control power settings on a local system.

For detailed command and option information, run "POWERCFG /? <COMMAND>"

Command List:

/LIST, /L Lists all power schemes.

/QUERY, /Q Displays the contents of a power scheme.

/CHANGE, /X Modifies a setting value in the current power scheme.

/CHANGENAME Modifies the name and description of a power scheme.

/DELETE, /D Deletes a power scheme.

/DELETESETTING Deletes a power setting.

/SETACTIVE, /S Makes a power scheme active on the system.

/GETACTIVESCHEME Retrieves the currently active power scheme.

/SETACVALUEINDEX Sets the value associated with a power setting while the system is powered by AC power.

/SETDCVALUEINDEX Sets the value associated with a power setting while the system is powered by DC power.

/IMPORT Imports all power settings from a file.

/EXPORT Exports a power scheme to a file.

/ALIASES Displays all aliases and their corresponding GUIDs.

/GETSECURITYDESCRIPTOR

Gets a security descriptor associated with a specified power setting, power scheme, or action.

/SETSECURITYDESCRIPTOR

Sets a security descriptor associated with a power setting, power scheme, or action.

/HIBERNATE, /H Enables and disables the hibernate feature.

/AVAILABLESLEEPSTATES, /A

Reports the sleep states available on the system.

/DEVICEQUERY Returns a list of devices that meet specified criteria.

/DEVICEENABLEWAKE Enables a device to wake the system from a sleep state.

/DEVICEDISABLEWAKE Disables a device from waking the system from a sleep state.

/WAKETIMERS Enumerates active wake timers.

/REQUESTS Enumerates application and driver Power Requests.

/REQUESTSOVERRIDE Sets a Power Request override for a particular Process, Service, or Driver.

/ENERGY Analyzes the system for common energy-efficiency and battery life problems.

/BATTERYREPORT Generates a report of battery usage.

/SLEEPSTUDY Generates a diagnostic system power transition report.

/SRUMUTIL Dumps Energy Estimation data from System Resource Usage Monitor (SRUM).

/SYSTEMSLEEPDIAGNOSTICS

Generates a diagnostic report of system sleep transitions.

/SYSTEMPOWERREPORT Generates a diagnostic system power transition report.

/POWERTHROTTLING Control power throttling for an application.

C:\Users\user>powercfg lastwake
Wake History Count - 1
Wake History [0]
Wake Source Count - 0

C:\Users\user>cd Desktop

C:\Users\user\Desktop>dir
Volume in drive C has no label.
Volume Serial Number is A0D4-F368

Directory of C:\Users\user\Desktop

25-02-2021 22:29 5,200 New Text Document.txt
20-02-2021 14:27 1,032 Nmap - Zenmap GUI.lnk
08-01-2021 10:29 <DIR> Old Firefox Data
27-01-2021 16:38 <DIR> Secure
25-02-2021 22:10 <DIR> SecureLab
5 File(s) 6,232 bytes
5 Dir(s) 161,523,335,168 bytes free

C:\Users\user\Desktop>attrib /?
Displays or changes file attributes.

ATTRIB [+R | -R] [+A | -A] [+S | -S] [+H | -H] [+O | -O] [+I | -I] [+X | -X] [+P | -P] [+U | -U] [drive:][path][filename] [/S [/D]] [/L]

- + Sets an attribute.
- Clears an attribute.
- R Read-only file attribute.
- A Archive file attribute.
- S System file attribute.
- H Hidden file attribute.
- O Offline attribute.
- I Not content indexed file attribute.
- X No scrub file attribute.
- V Integrity attribute.

- P Pinned attribute.
- U Unpinned attribute.
- B SMR Blob attribute.

[drive:][path][filename]

Specifies a file or files for attrib to process.

- /S Processes matching files in the current folder and all subfolders.
- /D Processes folders as well.
- /L Work on the attributes of the Symbolic Link versus the target of the Symbolic Link

C:\Users\user\Desktop>attrib +h +r +s /s /d Old Firefox Data Parameter format not correct -

C:\Users\user\Desktop>attrib +h +r +s /s /d Old_Firefox_Data

C:\Users\user\Desktop>dir
Volume in drive C has no label.
Volume Serial Number is A0D4-F368

Directory of C:\Users\user\Desktop

```
03-03-2021 21:50
                 <DIR>
03-03-2021 21:50
                 <DIR>
25-02-2021 22:20
                        0 attrib
25-02-2021 22:20
                        0 cd
25-02-2021 22:20
                        0 mkdir
25-02-2021 22:29
                      5,200 New Text Document.txt
20-02-2021 14:27
                      1,032 Nmap - Zenmap GUI.lnk
27-01-2021 16:38 <DIR>
                            Secure
25-02-2021 22:10 <DIR>
                            SecureLab
       5 File(s) 6,232 bytes
       4 Dir(s) 161,521,524,736 bytes free
```

C:\Users\user\Desktop>attrib -h -r -s /s /d Old_Firefox_Data

C:\Users\user\Desktop>dir
Volume in drive C has no label.
Volume Serial Number is A0D4-F368

Directory of C:\Users\user\Desktop

Directory of C:\Users\user\Desktop

```
03-03-2021 21:50 <DIR>
03-03-2021 21:50 <DIR>
25-02-2021 22:20
                         0 attrib
25-02-2021 22:20
                         0 cd
25-02-2021 22:20
                         0 mkdir
25-02-2021 22:29
                       5,200 New Text Document.txt
                       1,032 Nmap - Zenmap GUI.lnk
20-02-2021 14:27
08-01-2021 10:29 <DIR>
                             Old Firefox Data
27-01-2021 16:38 <DIR>
                             Secure
25-02-2021 22:10 <DIR>
                             SecureLab
        5 File(s)
                    6,232 bytes
        5 Dir(s) 161,521,442,816 bytes free
```

C:\Users\user\Desktop>

SCRIPT TO DO JOBS

1. Lock Windows PC

import ctypes
ctypes.windll.user32.LockWorkStation()

2. Clear Recycle Bin

import winshell

winshell.recycle_bin().empty(confirm=False,show_progress=False,sound=False)