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SECURE CODING LAB 4

POWERCFG ENERGY

Microsoft Windows [Version 10.0.19041.804]

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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]

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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.

/DUPLICATESCHEME Duplicates a power scheme.

/DELETE, /D Deletes a power scheme.

/DELETEDSETTING 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.

/LASTWAKE Reports information about what woke the system from the last sleep transition.

/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 22:20 <DIR> .

25-02-2021 22:20 <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.Ink

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.Ink

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

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.Ink

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)
```