

SECURE CODING LAB 4

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POWERCFG ENERGY

Microsoft Windows [Version 10.0.19041.746]

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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.

6 Errors

15 Warnings

58 Informational

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

C:\Windows\system32>

Power and Attrib Commands

Microsoft Windows [Version 10.0.19041.746]

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C:\Users\RISHAV DHIMAN>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.

/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.

/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\RISHAV DHIMAN>powercfg lastwake
Wake History Count - 1
Wake History [0]
Wake Source Count - 0

C:\Users\RISHAV DHIMAN>cd Desktop

C:\Users\RISHAV DHIMAN\Desktop>dir
Volume in drive C has no label.
Volume Serial Number is B0DB-3FE7
```

```

Directory of C:\Users\RISHAV DHIMAN\Desktop

03/04/2021  09:12 PM  <DIR>          .
03/04/2021  09:12 PM  <DIR>          ..
02/13/2021  08:09 PM          1,028,183 08.pdf
02/16/2021  10:50 PM          95,564 188CN7030.pdf
02/24/2021  04:59 PM          86,769 188CN7030_LAB1.pdf
02/20/2021  10:50 PM          82,578 188CN7030_UniversalBasicIncome.pdf
02/22/2021  10:59 PM  <DIR>          Cfirst
02/22/2021  04:28 PM          949 CodeBlocks.lnk
12/31/2020  11:38 AM          860,946 daa_1.png
11/25/2020  12:16 AM  <DIR>          Eclipse
02/12/2021  11:45 AM          683 form.html
02/09/2021  02:25 PM          37,497 google.png
02/10/2021  10:20 AM          1,258 htmlfile.html
02/26/2021  11:20 PM          263,294 Lab-3-188CN7030.pdf
02/24/2021  03:38 PM  <DIR>          lab1
02/24/2021  03:40 PM  <DIR>          mdlab1
02/25/2021  08:11 PM          2,400 Microsoft Teams.lnk
01/18/2021  08:56 PM          24,316 money_source1.xlsx
02/16/2021  10:52 PM          13,789 NAME.docx
02/13/2021  11:04 AM          0 New Microsoft PowerPoint Presentation (2).pptx
01/30/2021  01:30 AM          0 New Microsoft PowerPoint Presentation.pptx
02/13/2021  07:36 PM          13,520 New Microsoft Word Document.docx
01/18/2021  05:46 PM          0 New Text Document (2).txt
02/10/2021  04:02 PM          283 New Text Document (3).txt
02/13/2021  03:55 PM          0 New Text Document (4).txt
01/18/2021  12:36 AM          0 New Text Document.txt
02/14/2021  07:29 PM          2,326 p2.txt
03/04/2021  09:12 PM  <DIR>          RISHAV
02/26/2021  04:32 PM          554,731 Secure Coding Lab2.pdf
02/11/2021  04:16 PM          2,287,209 song.mp3
02/11/2021  10:10 PM          69,462,801 video.mp4
02/08/2021  07:14 PM          6,288,357 video1.webm
09/18/2020  08:38 PM          1,442 Visual Studio Code.lnk
09/16/2020  07:47 PM          904 µTorrent.lnk
          27 File(s)          81,109,799 bytes
          7 Dir(s)  123,819,683,840 bytes free

```

```

C:\Users\RISHAV DHIMAN\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\RISHAV DHIMAN\Desktop>attrib +h +r +s /s /d RISHAV
```

```
C:\Users\RISHAV DHIMAN\Desktop>dir
```

```
Volume in drive C has no label.
```

```
Volume Serial Number is B0DB-3FE7
```

```
Directory of C:\Users\RISHAV DHIMAN\Desktop
```

```
03/04/2021 09:12 PM <DIR> .
03/04/2021 09:12 PM <DIR> ..
02/13/2021 08:09 PM      1,028,183 08.pdf
02/16/2021 10:50 PM      95,564 18BCN7030.pdf
02/24/2021 04:59 PM      86,769 18BCN7030_LAB1.pdf
02/20/2021 10:50 PM      82,578 18BCN7030_UniversalBasicIncome.pdf
02/22/2021 10:59 PM <DIR> Cfirst
02/22/2021 04:28 PM      949 CodeBlocks.lnk
12/31/2020 11:38 AM     860,946 daa 1.png
11/25/2020 12:16 AM <DIR> Eclipse
02/12/2021 11:45 AM      683 form.html
02/09/2021 02:25 PM     37,497 google.png
02/10/2021 10:20 AM      1,258 htmlfile.html
02/26/2021 11:20 PM    263,294 Lab-3-18BCN7030.pdf
02/24/2021 03:38 PM <DIR> lab1
02/24/2021 03:40 PM <DIR> mdlab1
02/25/2021 08:11 PM      2,400 Microsoft Teams.lnk
01/18/2021 08:56 PM     24,316 money source1.xlsx
02/16/2021 10:52 PM     13,789 NAME.docx
02/13/2021 11:04 AM          0 New Microsoft PowerPoint Presentation (2).pptx
01/30/2021 01:30 AM          0 New Microsoft PowerPoint Presentation.pptx
02/13/2021 07:36 PM     13,520 New Microsoft Word Document.docx
01/18/2021 05:46 PM          0 New Text Document (2).txt
02/10/2021 04:02 PM      283 New Text Document (3).txt
02/13/2021 03:55 PM          0 New Text Document (4).txt
01/18/2021 12:36 AM          0 New Text Document.txt
02/14/2021 07:29 PM      2,326 p2.txt
02/26/2021 04:32 PM     554,731 Secure Coding Lab2.pdf
02/11/2021 04:16 PM    2,287,209 song.mp3
```

```

02/26/2021 04:32 PM          554,731 Secure Coding Lab2.pdf
02/11/2021 04:16 PM          2,287,209 song.mp3
02/11/2021 10:10 PM          69,462,801 video.mp4
02/08/2021 07:14 PM          6,288,357 video1.webm
09/18/2020 08:38 PM              1,442 Visual Studio Code.lnk
09/16/2020 07:47 PM              904 µTorrent.lnk
          27 File(s)      81,109,799 bytes
          6 Dir(s)  123,822,649,344 bytes free

```

```
C:\Users\RISHAV DHIMAN\Desktop>attrib -h -r -s /s /d RISHAV
```

```

C:\Users\RISHAV DHIMAN\Desktop>dir
Volume in drive C has no label.
Volume Serial Number is B0DB-3FE7

```

```
Directory of C:\Users\RISHAV DHIMAN\Desktop
```

```

03/04/2021 09:12 PM    <DIR>          .
03/04/2021 09:12 PM    <DIR>          ..
02/13/2021 08:09 PM          1,028,183 08.pdf
02/16/2021 10:50 PM          95,564 18BCN7030.pdf
02/24/2021 04:59 PM          86,769 18BCN7030_LAB1.pdf
02/20/2021 10:50 PM          82,578 18BCN7030_UniversalBasicIncome.pdf
02/22/2021 10:59 PM    <DIR>          Cfirst
02/22/2021 04:28 PM          949 CodeBlocks.lnk
12/31/2020 11:38 AM          860,946 daa 1.png
11/25/2020 12:16 AM    <DIR>          Eclipse
02/12/2021 11:45 AM          683 form.html
02/09/2021 02:25 PM          37,497 google.png
02/10/2021 10:20 AM          1,258 htmlfile.html
02/26/2021 11:20 PM          263,294 Lab-3-18BCN7030.pdf
02/24/2021 03:38 PM    <DIR>          lab1
02/24/2021 03:40 PM    <DIR>          mdlab1
02/25/2021 08:11 PM          2,400 Microsoft Teams.lnk
01/18/2021 08:56 PM          24,316 money source1.xlsx
01/18/2021 08:56 PM          24,316 money source1.xlsx
02/16/2021 10:52 PM          13,789 NAME.docx
02/13/2021 11:04 AM              0 New Microsoft PowerPoint Presentation (2).pptx
01/30/2021 01:30 AM              0 New Microsoft PowerPoint Presentation.pptx
02/13/2021 07:36 PM          13,520 New Microsoft Word Document.docx
01/18/2021 05:46 PM              0 New Text Document (2).txt
02/10/2021 04:02 PM          283 New Text Document (3).txt
02/13/2021 03:55 PM              0 New Text Document (4).txt
01/18/2021 12:36 AM              0 New Text Document.txt
02/14/2021 07:29 PM          2,326 p2.txt
03/04/2021 09:12 PM    <DIR>          RISHAV
02/26/2021 04:32 PM          554,731 Secure Coding Lab2.pdf
02/11/2021 04:16 PM          2,287,209 song.mp3
02/11/2021 10:10 PM          69,462,801 video.mp4
02/08/2021 07:14 PM          6,288,357 video1.webm
09/18/2020 08:38 PM              1,442 Visual Studio Code.lnk
09/16/2020 07:47 PM              904 µTorrent.lnk
          27 File(s)      81,109,799 bytes
          7 Dir(s)  123,822,153,728 bytes free

```

```
C:\Users\RISHAV DHIMAN\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)
```