

Secure Coding

Lab-4

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- how to hide any file?

```
D:\>attrib +h +s +r /S /D A.txt

D:\>attrib
A SHR          D:\A.txt
A              D:\B.txt
A              D:\DA.rar
A              D:\sort1.txt
A              D:\sort1.txt
A              D:\sort2.txt
              D:\unigram_freq.csv
              D:\weatherHistory.csv

D:\>attrib -h -s -r /S /D A.txt

D:\>attrib
A              D:\A.txt
A              D:\B.txt
A              D:\DA.rar
A              D:\sort1.txt
A              D:\sort1.txt
A              D:\sort2.txt
              D:\unigram_freq.csv
              D:\weatherHistory.csv
```

- Powerconfig

```
C:\Windows\System32>powercfg/BATTERYREPORT
Battery life report saved to file path C:\Windows\System32\battery-report.html.
```

Battery report

COMPUTER NAME	DESKTOP-AORULAI
SYSTEM PRODUCT NAME	Micro-Star International Co., Ltd. GL63 8RC
BIOS	E16P6IMS.109 05/22/2019
OS BUILD	19041.1.amd64fre.vb_release.191206-1406
PLATFORM ROLE	Mobile
CONNECTED STANDBY	Not supported
REPORT TIME	2021-03-12 21:32:13

Installed batteries

Information about each currently installed battery

	BATTERY 1
NAME	MS-16P6
MANUFACTURER	MSI Corp.
SERIAL NUMBER	-
CHEMISTRY	LION
DESIGN CAPACITY	43,200 mWh
FULL CHARGE CAPACITY	37,994 mWh
CYCLE COUNT	-

- LASTWAKE AND /A

```
C:\Windows\System32>powercfg/energy
Enabling tracing for 60 seconds...
Observing system behavior...
Analyzing trace data...
Analysis complete.

Energy efficiency problems were found.

11 Errors
9 Warnings
59 Informational

See C:\Windows\System32\energy-report.html for more details.
```

Power Efficiency Diagnostics Report

Computer Name	DESKTOP-AORULAI
Scan Time	2021-03-12T16:05:48Z
Scan Duration	60 seconds
System Manufacturer	Micro-Star International Co., Ltd.
System Product Name	GL63 8RC
BIOS Date	05/22/2019
BIOS Version	E16P6IMS.109
OS Build	19042
Platform Role	PlatformRoleMobile
Plugged In	true
Process Count	236
Thread Count	2713
Report GUID	{6d02abbf-4d6d-431f-ab8a-f930b32b220d}

Analysis Results

Errors

Power Policy:Power Plan Personality is High Performance (On Battery)

The current power plan personality is High Performance when the system is on battery power.

Power Policy:Sleep timeout is disabled (On Battery)

The computer is not configured to automatically sleep after a period of inactivity.

Power Policy:802.11 Radio Power Policy is Maximum Performance (On Battery)

The current power policy for 802.11-compatible wireless network adapters is not configured to use low-power modes.

Power Policy:PCI Express ASPM is disabled (On Battery)

The current power policy for PCI Express Active State Power Management (ASPM) is configured to Off.

Power Policy:Power Plan Personality is High Performance (Plugged In)

The current power plan personality is High Performance when the system is plugged in.

Power Policy:Sleep timeout is disabled (Plugged In)

The computer is not configured to automatically sleep after a period of inactivity.

```
C:\Windows\System32>powercfg /a
```

The following sleep states are available on this system:

Standby (S3)

Hibernate

Hybrid Sleep

Fast Startup

The following sleep states are not available on this system:

Standby (S1)

The system firmware does not support this standby state.

Standby (S2)

The system firmware does not support this standby state.

Standby (S0 Low Power Idle)

The system firmware does not support this standby state.

```
C:\Windows\System32>powercfg /lastwake
```

Wake History Count - 1

Wake History [0]

Wake Source Count - 1

Wake Source [0]

Type: Fixed Feature

Power Button

```
C:\Windows\System32>powercfg /hibernate off
```

```
C:\Windows\System32>powercfg /devicequery S1_supported
```

Generic PnP Monitor

Intel(R) iCLS Client

Root Print Queue

Volume Manager

WAN Miniport (PPPOE)

Microsoft Basic Display Driver

Intel(R) Media SDK binaries

Speakers (Realtek(R) Audio)

VirtualBox Host-Only Ethernet Adapter

Microsoft Wi-Fi Direct Virtual Adapter

Microsoft Wi-Fi Direct Virtual Adapter #2

WAN Miniport (PPTP)

Intel(R) Dynamic Application Loader Host Interface

Microsoft XPS Document Writer

Microsoft Hyper-V Virtualization Infrastructure Driver

WAN Miniport (IKEv2)

Composite Bus Enumerator

Microsoft Virtual Drive Enumerator

HID-compliant mouse

Microsoft Storage Spaces Controller

Microsoft Kernel Debug Network Adapter

A-Volute Nh3 Audio Effects Component

Synaptics Service binaries

Nahimic mirroring device

Realtek Audio Effects Component

Intel(R) Wireless Bluetooth(R)

Generic software component (001)

Microphone (Realtek(R) Audio)

UMBus Root Bus Enumerator

Charge Arbitration Driver

ACPI x64-based PC

USB Root Hub (USB 3.0)

WAN Miniport (Network Monitor)

WAN Miniport (IP)

Realtek Audio Universal Service

Microsoft Basic Render Driver
WAN Miniport (SSTP)
HID-compliant vendor-defined device
Intel(R) Graphics Control Panel
Microsoft Print to PDF
USB Input Device (003)
OneNote for Windows 10
USB Input Device (005)
NVIDIA Virtual Audio Device (Wave Extensible) (WDM)
NVVHCI Enumerator
NvModuleTracker Device
Realtek Hardware Support Application
NDIS Virtual Network Adapter Enumerator
Realtek USB 2.0 Card Reader
A-Volute Nh3 Audio Effects Component (001)
Microsoft System Management BIOS Driver
Fax
Plug and Play Software Device Enumerator
Intel(R) Grfx VK binaries
Remote Desktop Device Redirector Bus
WAN Miniport (IPv6)
WAN Miniport (L2TP)

- lock the screen of the computer using python?

```
>>> import pyautogui
```

```
C:\Users\CodeBaker> python C:\Users\Devashish\pycodes\pyautogui.lock.py
```

- clear recycle bin using python?

```
import winshell
```

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