## Secure Coding Lab Assignment-13

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# Creating systeminfo.txt file

C:\Users\HP\Desktop\wesng>systeminfo>systeminfo.txt

C:\Users\HP\Desktop\wesng>notepad systeminfo.txt

C:\Users\HP\Desktop\wesng>\_

Host Name: DESKTOP-FEPRKOC

OS Name: Microsoft Windows 10 Pro 10.0.19042 N/A Build 19042 OS Version: OS Manufacturer: Microsoft Corporation OS Configuration: Standalone Workstation OS Build Type: Multiprocessor Free

Registered Owner: Windows User

Registered Organization:

00331-10000-00001-AA468 Product ID: Original Install Date: 4/4/2021, 7:40:54 AM System Boot Time: 6/25/2021, 12:32:25 PM

System Manufacturer:

System Model: HP Laptop 15-da0xxx

x64-based PC System Type:

Processor(s): 1 Processor(s) Installed.

[01]: Intel64 Family 6 Model 142 Stepping 10 GenuineIntel ~1801 Mhz

BIOS Version: Insyde F.19, 5/6/2019

Windows Directory: C:\WINDOWS

System Directory: C:\WINDOWS\system32 Boot Device: \Device\HarddiskVolume2

en-gb;English (United Kingdom) System Locale: Input Locale: en-us; English (United States)

(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi Time Zone:

Total Physical Memory: 8,103 MB Available Physical Memory: 2,214 MB Virtual Memory: Max Size: 12,711 MB Virtual Memory: Available: 4,055 MB Virtual Memory: In Use: 8,656 MB Page File Location(s): C:\pagefile.sys

Domain: WORKGROUP

Hotfix(s):

\\DESKTOP-FEPRKOC Logon Server:

[01]: KB5003254 [02]: KB4562830 [03]: KB4580325 [04]: KB5003637 [05]: KB5003503

5 Hotfix(s) Installed.

Network Card(s): 2 NIC(s) Installed.

[01]: Realtek RTL8723DE 802.11b/g/n PCIe Adapter

Connection Name: WiFi DHCP Enabled: Yes DHCP Server: 192.168.0.1 IP address(es) [01]: 192.168.0.104

[02]: fe80::ac44:41e3:bdbb:8ef [02]: Realtek PCIe GbE Family Controller Connection Name: Ethernet

Media disconnected

Hyper-V Requirements: A hypervisor has been detected. Features required for Hyper-V will not be displayed.

## Wesng

#### >>wes.py

```
:\Users\HP\Desktop\wesng>wes.py
usage: wes.py [-u] [--update-wes] [--version] [--definitions [DEFINITIONS]] [-p INSTALLEDPATCH [INSTALLEDPATCH ...]]
[-d] [-e] [--hide HIDDENVULN [HIDDENVULN ...]] [-i IMPACTS [IMPACTS ...]]
[-s SEVERITIES [SEVERITIES ...]] [-o [OUTPUTFILE]] [--muc-lookup] [-h]
                    systeminfo [qfefile]
Windows Exploit Suggester 0.98 ( https://github.com/bitsadmin/wesng/ )
positional arguments:
  systeminfo
                                  Specify systeminfo.txt file
  qfefile
                                  Specify the file containing the output of the 'wmic qfe' command
optional arguments:
  -u, --update
                                  Download latest list of CVEs
                                  Download latest version of wes.py
  --update-wes
  --version
                                  Show version information
  --definitions [DEFINITIONS]
  Definitions zip file (default: definitions.zip)
-p INSTALLEDPATCH [INSTALLEDPATCH ...] Manually specify installed patches in addition to the ones listed in the systeminfo.txt file
   -d, --usekbdate
                                  Filter out vulnerabilities of KBs published before the publishing date of the most recent KB
  -e, --exploits-only Shem --
--hide HIDDENVULN [HIDDENVULN ...]
Hide vulneral
                                  Show only vulnerabilities with known exploits
  --hide HIDDENVULN [HIDDENVULN ...]

Hide vulnerabilities of for example Adobe Flash Player and Microsoft Edge
-i IMPACTS [IMPACTS ...], --impact IMPACTS [IMPACTS ...]

Only display vulnerabilities with a given impact
-s SEVERITIES [SEVERITIES ...], --severity SEVERITIES [SEVERITIES ...]

Only display vulnerabilities with a given severity
-o [OUTPUTFILE], --output [OUTPUTFILE]
                                  Store results in a file
  --muc-lookup
                                  Hide vulnerabilities if installed hotfixes are listed in the Microsoft Update Catalog as
                                  superseding hotfixes for the original BulletinKB
  -h, --help
                                  Show this help message and exit
 xamples:
  .
Download latest definitions
  wes.py --update
  wes.py -u
Determine vulnerabilities
  wes.py systeminfo.txt
```

```
Determine vulnerabilities using both systeminfo and qfe files
wes.py systeminfo.txt - output vulns.csv
Determine vulnerabilities and output to file
wes.py systeminfo.txt - output vulns.csv
Determine vulnerabilities explicitly specifying KBs to reduce false-positives
wes.py systeminfo.txt - output vulns.csv
Determine vulnerabilities explicitly specifying KBs to reduce false-positives
wes.py systeminfo.txt - p KB4345421 KB4487017

Determine vulnerabilities filtering out out vulnerabilities of KBs that have been published before the publishing date of the most recent KB installed
wes.py systeminfo.txt - usekbdate
wes.py systeminfo.txt - definitions C:\tmp\mydefs.zip
Determine vulnerabilities explicitly specifying definitions file
wes.py systeminfo.txt --definitions C:\tmp\mydefs.zip
List only vulnerabilities with exploits, excluding IE, Edge and Flash
wes.py systeminfo.txt --exploits-only --hide "Internet Explorer" Edge Flash
wes.py systeminfo.txt --exploits only --hide "Internet Explorer" Edge Flash
Only show vulnerabilities of a certain impact
wes.py systeminfo.txt --inpact "Remote Code Execution"
wes.py systeminfo.txt --inpact "Remote Code Execution"
wes.py systeminfo.txt --severity critical
wes.py --update-wes

'Usladet supersedence against Microsoft's online Update Catalog
wes.py --update-wes

'Usladet supersedence against Microsoft's online Update Catalog
wes.py --update-wes
```

### >>wes.py systeminfo.txt --output vul.csv

```
C:\Users\HP\Desktop\wesng>wes.py systeminfo.txt --output vul.csv
Windows Exploit Suggester 0.98 ( https://github.com/bitsadmin/wesng/ )

[+] Parsing systeminfo output

[+] Operating System

- Name: Windows 10 Version 20H2 for x64-based Systems

- Generation: 10

- Build: 19042

- Version: 20H2

- Architecture: x64-based

- Installed hotfixes (5): KB5003254, KB4562830, KB4580325, KB5003637, KB5003503

[+] Loading definitions

- Creation date of definitions: 20210621

[+] Determining missing patches

[+] Found vulnerabilities

[+] Writing 2 results to vul.csv

[+] Missing patches: 1

- KB4601050: patches 2 vulnerabilities

[+] KB with the most recent release date

- ID: KB4601050: patches 2 vulnerabilities found.

C:\Users\HP\Desktop\wesng>__
```

### Patching

### All the vulnerabilities are stored in vul.csv

