Secure Coding Lab 5th June, 2021

G.GAYATHRI 19BCN7034

1. Generating System Information in the sysinfo.txt file



The SystemInfo.txt file

```
sysinfo.txt - Notepad
File Edit Format View Help
Host Name:
                             DESKTOP-7GDRFKM
                            Microsoft Windows 10 Home
OS Name:
                           10.0.19041 N/A Build 19041
OS Version:
                          Microsoft Corporation
OS Manufacturer:
OS Configuration:
                           Standalone Workstation
                            Multiprocessor Free
OS Build Type:
Registered Owner:
                            user
Registered Organization:
Product ID:
                            00326-10000-00000-AA051
Original Install Date:
                            17-11-2020, 14:29:25
Original Install
System Boot Time: 12-
System Manufacturer: HP
Crustom Model: HP
                            12-06-2021, 09:13:08
                            HP Pavilion Laptop 15-cc0xx
System Type:
                            x64-based PC
Processor(s):
                             1 Processor(s) Installed.
                             [01]: Intel64 Family 6 Model 142 Stepping 9 GenuineIntel ~2703 Mhz
BIOS Version:
                             Insyde F.10, 28-07-2017
Windows Directory:
                            C:\Windows
System Directory:
                            C:\Windows\system32
Boot Device:
                             \Device\HarddiskVolume7
```

2. Updating WES-NG with the latest database

```
C:\wesng-master>pip3 install chardet
Requirement already satisfied: chardet in c:\users\user\appdata\local\programs\python\python36\lib\site-packages (4.0.0)
WARNING: You are using pip version 21.0.1; however, version 21.1.2 is available.
You should consider upgrading via the 'c:\users\user\appdata\local\programs\python\python36\python.exe -m pip install --upgrade pip' command.

C:\wesng-master>wes.py --update
Windows Exploit Suggester 0.98 ( https://github.com/bitsadmin/wesng/ )
[+] Updating definitions
[+] Obtained definitions created at 20210607

C:\wesng-master>_
```

3. Checking for Vulnerabilities

```
Affected component: Issuing CNA
herestly: Important
langer: Elevation of Privilege
langet: Elevation of Privilege
langet: Elevation of Privilege
langet: Elevation of Privilege
langet: 2020511

WE: VC-2021-31208

WE: VC-202
```

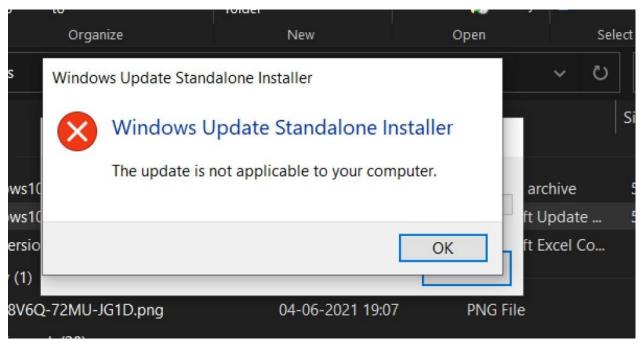
The vulnerabilities can be prevented by downloading the KB5003173, KB4569745, KB4601050 and KB4566785 patches.

4. Patching

The patches are installed in our PC but due to some errors the tool WES-NG couldn't recognise it.

```
Quality Updates (5)
2021-05 Cumulative Update for Windows 10 Version 20H2 for x64-based Systems (KB5003173)
Successfully installed on 14-05-2021
```

So when we try to reinstall the same patches, we are not able to install them due to some errors from the OEM or simply Microsoft.



Hence we cannot install the patches to make the found vulnerability count '0'.

5. Another Way of finding dangerous vulnerabilities We can also filter out the output in the tool WES-NG by adding display filters before scanning for vulnerabilities.

Hence we get 0 vulnerabilities if we apply display filters. This shows that there aren't any major vulnerabilities that cannot be patched from updates.