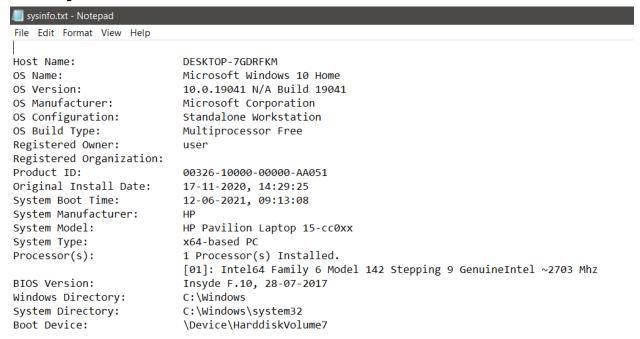
Secure Coding Lab 5th June, 2021

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1. Generating System Information in the sysinfo.txt file



The SystemInfo.txt file



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

```
Command Prompt

C. Lecting exteriors. p. grainfo. tx
disclose Exploit Suggester 0.08 ( https://github.com/bitsedein/wesng/ )

[-] Parsing systemific output

[-] Operating System Gersion 2004 for x64-based Systems

- conversion: 30

- Build: 1904

- version: 300

- Build: 1904

- version: 2004

- rostalled befores (11): KSR003254, KE456(600, KE4570334, KE4577586, KE45800125, KE4580014, KE4593175, KE4590481, KE5001607, KE5001500

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- rostalled befores (11): KSR003254, KE456(600, KE4570334, KE4577586, KE45800125, KE4580014, KE4593175, KE4590481, KE5001607, KE50015001

- rostalled befores (11): KSR003254, KE456(600, KE4570334, KE4577586, KE45800125, KE4580014, KE4593175, KE4590481, KE5001607, KE50015001

- rostalled befores (11): KSR003254, KE456(600, KE4570334, KE4570586, KE45800125, KE45901175, KE45904811, KE5001607, KE50015001

- rostalled before (11): KE50015014, KE4501600, KE4570334, KE4570586, KE45800125, KE45901175, KE45904811, KE5001607, KE50015001

- rostalled before (11): KE50015014, KE4501600, KE4570334, KE4570586, KE45800125, KE45901607, KE5001607, KE5001501801

- rostalled before (11): KE50015014, KE4501600, KE4501600,
```

```
Affected component; Issuing CNA
Severity; Algoritant
Deposit: Party of Privilege
Exploit; in or

Detail 201501

Or: 002-2012-1100

Or: 002-2012-11
```

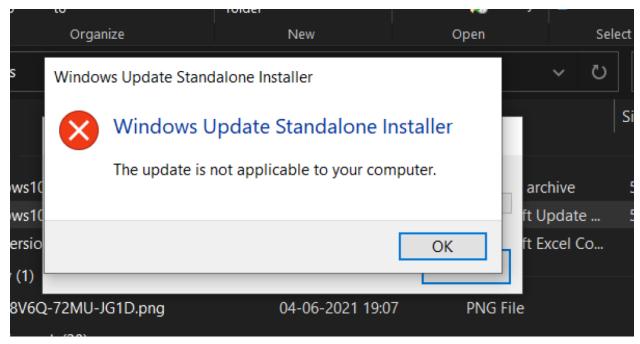
The vulnerabilities can be prevented by downloading the KB5003173, KB4569745, KB4601050 and KB4566785 patches.

4. Patching

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



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.

```
C:\wesng-master>wes.py -e sysinfo.txt --hide "Internet Explorer" Edge
Windows Exploit Suggester 0.98 ( https://github.com/bitsadmin/wesng/ )

[+] Parsing systeminfo output

[+] Operating System

- Name: Windows 10 Version 2004 for x64-based Systems

- Generation: 10

- Build: 19041

- Version: 2004

- Architecture: x64-based

- Installed hotfixes (11): KB5003254, KB4561600, KB4570334, KB4577586, KB4580325, KB4586864, KB4589212, KB4593175, KB4598481, KB5003637, KB5003503

[+] Loading definitions

- Creation date of definitions: 20210607

[+] Determining missing patches

[+] Applying display filters

[-] No vulnerabilities found

C:\wesng-master>_
```

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.