Secure Coding Lab - 13

Name: S V Girish Kumar

Reg. No: 18BCN7106

After installing the wesng from github.

```
Microsoft Windows [Version 10.0.19042.985]
(c) Microsoft Corporation. All rights reserved.
C:\Users\SATYAM>cd C:\Users\SATYAM\Videos\SC lab\wesng-master\wesng-master
C:\Users\SATYAM\Videos\SC_lab\wesng-master\wesng-master>python3 wes.py
Python was not found; run without arguments to install from the Microsoft Store, or disable this shortcut from Settings
> Manage App Execution Aliases.
C:\Users\SATYAM\Videos\SC_lab\wesng-master\wesng-master>python wes.py
WARNING:root:chardet module not installed. In case of encoding errors, install chardet using: pip3 install chardet
usage: wes.py [-u] [--update-wes] [--version] [--definitions [DEFINITIONS]] [-p INSTALLEDPATCH [INSTALLEDPATCH ...]]
[-d] [--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:
                                            Specify systeminfo.txt file
Specify the file containing the output of the 'wmic qfe' command
   systeminfo
qfefile
 optional arguments:
   -u, --update Download latest list of CVEs
--update-wes Download latest version of wes.py
--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
    Download latest version of WES-NG
 C:\Users\SATYAM\Videos\SC_lab\wesng-master\wesng-master>wes.py --update
WARNING:root:chardet module not installed. In case of encoding errors, install chardet using: pip3 install chardet Windows Exploit Suggester 0.98 ( https://github.com/bitsadmin/wesng/ )
[+] Updating definitions
[+] Obtained definitions created at 20210530
                                                                                                                                                                                                                     C:\Users\SATYAM\Videos\SC_lab\wesng-master\wesng-master>systeminfo > after_systeminfo.txt
C:\Users\SATYAM\Videos\SC_lab\wesng-master\wesng-master>yes.py after_systeminfo.txt WARNING:root:chardet module not installed. In case of encoding errors, install chardet using: pip3 install chardet Windows Exploit Suggester 0.98 ( https://github.com/bitsadmin/wesng/ )
[+] Parsing systeminfo output

[+] Operating System

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

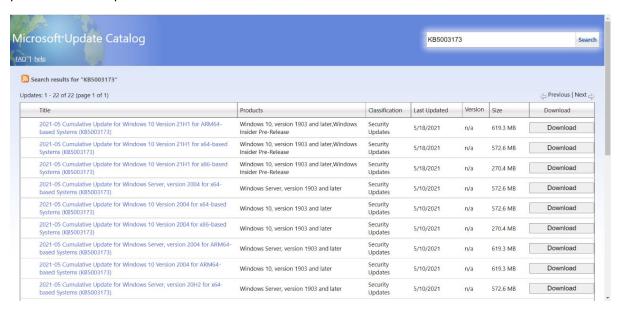
- Generation: 10
        - Build: 19042
        - Version: 20H2
            Architecture: x64-based
- Architecture: x04-based
- Installed hotfixes (10): KB5003254, KB4562830, KB4570334, KB4577586, KB4580325, KB4586864, KB4589212, KB4598481, K
B5003214, KB5003503
[+] Loading definitions
- Creation date of definitions: 20210530
[+] Determining missing patches
[+] Found vulnerabilities
 Date: 20210216
CVE: CVE-2021-24111
KB: KB4601050
Title: .NET Framework Denial of Service Vulnerability
Affected product: Microsoft .NET Framework 4.8 on Windows 10 Version 20H2 for x64-based Systems
Affected component: Issuing CNA
Severity: Important
Impact: Denial of Service
 Exploit: n/a
```

```
cmd
Date: 20210511
CVE: CVE-2021-28476
KB: KB5003173
Title: Hyper-V Remote Code Execution Vulnerability
Affected product: Windows 10 Version 20H2 for x64-based Systems
Affected component: Issuing CNA
Severity: Critical
Impact: Remote Code Execution
Exploit: n/a
Date: 20210511
CVE: CVE-2021-28476
KB: KB5003173
Title: Hyper-V Remote Code Execution Vulnerability
Affected product: Windows 10 Version 20H2 for x64-based Systems
Affected component: Issuing CNA
Severity: Critical
Impact: Remote Code Execution
Exploit: n/a
[+] Missing patches: 2
- KB5003173: patches 50 vulnerabilities
- KB4601050: patches 2 vulnerabilities
[+] KB with the most recent release date

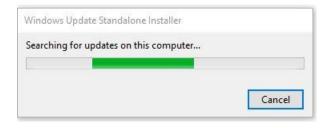
- ID: KB5003173

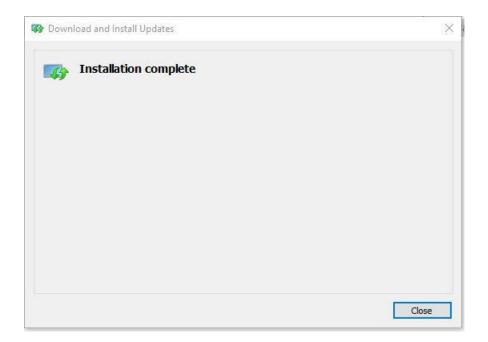
- Release date: 20210511
[+] Done. Displaying 52 of the 52 vulnerabilities found.
C:\Users\SATYAM\Videos\SC_lab\wesng-master\wesng-master>
```

These are the vulnerabilities found in the machine. And the above-mentioned 50 vulnerabilities are patched in this report.



Downloaded the respective .msu file and started installing it.





Now running again the systeminfo and wes.py:

```
Date: 20210216

CVE: CVE-2021-24111

KB: KB4601050

Title: .NET Framework Denial of Service Vulnerability

Affected product: Microsoft .NET Framework 4.8 on Windows 10 Version 20H2 for x64-based Systems

Affected component: Issuing CNA

Severity: Important

Impact: Denial of Service

Exploit: n/a

Date: 20210216

CVE: CVE-2021-24111

KB: KB4601050

Title: .NET Framework Denial of Service Vulnerability

Affected product: Microsoft .NET Framework 4.8 on Windows 10 Version 20H2 for x64-based Systems

Affected component: Issuing CNA

Severity: Important

Impact: Denial of Service

Exploit: n/a

[+] Missing patches: 1

- KB4601050: patches 2 vulnerabilities

[+] KB with the most recent release date

- Io: KB4601050

- Release date: 20210216

[+] Done. Displaying 2 of the 2 vulnerabilities found.

C:\Users\SATYAM\Videos\SC_lab\wesng-master\wesng-master>
```

Now we can see 50 vulnerabilities are patched up and only 2 left. We can do similarly for them to patch up.