

Secure Coding

Name: Y.Manideep

Reg.no:18BCN7093

Lab experiment – Automated Vulnerability Analysis and Patch Management

```
system - Notepad
File Edit Format View Help

Host Name:                NMESH004
OS Name:                  Microsoft Windows 10 Home Single Language
OS Version:              10.0.19042 N/A Build 19042
OS Manufacturer:        Microsoft Corporation
OS Configuration:       Standalone Workstation
OS Build Type:            Multiprocessor Free
Registered Owner:        NMESH
Registered Organization:  HP
Product ID:              00327-35853-66084-AADEM
Original Install Date:    09-03-2021, 17:57:16
System Boot Time:        07-06-2021, 13:06:51
System Manufacturer:     HP
System Model:             HP Laptop 15s-dr0xxx
System Type:             x64-based PC
Processor(s):            1 Processor(s) Installed.
                        [01]: Intel64 Family 6 Model 142 Stepping 12 GenuineIntel ~1600 Mhz
BIOS Version:            Insyde F.43, 31-03-2021
Windows Directory:       C:\WINDOWS
System Directory:        C:\WINDOWS\system32
Boot Device:             \Device\HarddiskVolume2
System Locale:            en-us;English (United States)
Input Locale:            00004009
Time Zone:               (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi
Total Physical Memory:    8,078 MB
Available Physical Memory: 2,979 MB
Virtual Memory: Max Size: 10,510 MB
Virtual Memory: Available: 2,510 MB
Virtual Memory: In Use:   8,000 MB
Page File Location(s):   C:\pagefile.sys
Domain:                  WORKGROUP
Logon Server:            \\NMESH004
Hotfix(s):               9 Hotfix(s) Installed.
                        [01]: KB5003254
                        [02]: KB4562830
                        [03]: KB4577586
                        [04]: KB4580325
                        [05]: KB4589212
                        [06]: KB4598481
                        [07]: KB5001679
```

```
C:\Users\WOMESH\Desktop\Win sew 2021\secure coding\wesng-master>python wes.py system.txt
Windows Exploit Suggester 0.98 ( https://github.com/0wnage0wn/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 (9): KB5003254, KB4562830, KB4577586, KB4580325, KB4589212, KB4590481, KB5001679, KB5003173, KB5003242
[*] Loading definitions
    - Creation date of definitions: 20210530
[*] Determining missing patches
[*] Found vulnerabilities

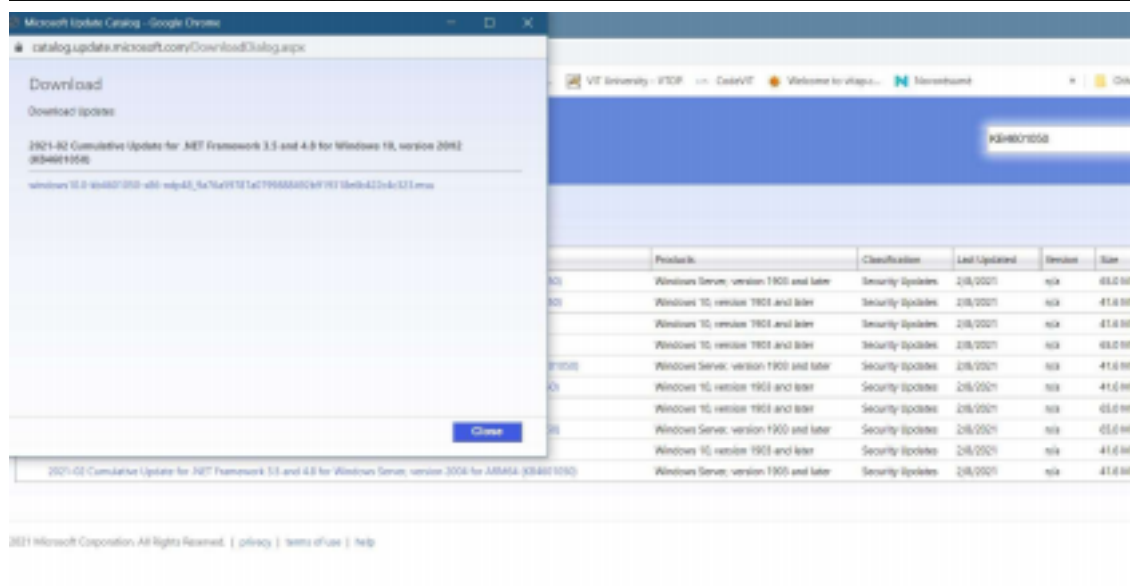
Date: 20210216
CVE: CVE-2021-24111
KB: KB4601050
Title: .NET Framework Denial of Service Vulnerability
Affected product: Microsoft .NET Framework 4.8 on Windows 10 Version 20H2 for x64-based Systems
Affected component: Issuing CMA
Severity: Important
Impact: Denial of Service
Exploit: n/a

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Exploit: n/a

[*] Missing patches: 1
    - KB4601050: patches 2 vulnerabilities
[*] KB with the most recent release date
    - ID: KB4601050
    - Release date: 20210216

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

C:\Users\WOMESH\Desktop\Win sew 2021\secure coding\wesng-master>
```



I updates my System from reported vulnerabilites.