

# Secure Coding

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## Lab experiment – Automated Vulnerability Analysis and Patch Management

```
system - Notepad
File Edit Format View Help

Host Name:                NOMESH004
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:         NOMESH
Registered Organization:   HP
Product ID:               00327-35853-66084-AAOEM
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:               \\NOMESH004
Hotfix(s):                  9 Hotfix(s) Installed.
                           [01]: KB5003254
                           [02]: KB4562830
                           [03]: KB4577586
                           [04]: KB4580325
                           [05]: KB4589212
                           [06]: KB4598481
                           [07]: KB5001679
```

```

C:\Users\NOMESH\Desktop\Win sem 2021\secure coding\wesng-master>python wes.py system.txt
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 (9): KB5003254, KB4562830, KB4577586, KB4580325, KB4589212, KB4598481, 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 CNA
Severity: Important
Impact: Denial of Service
Exploit: n/a

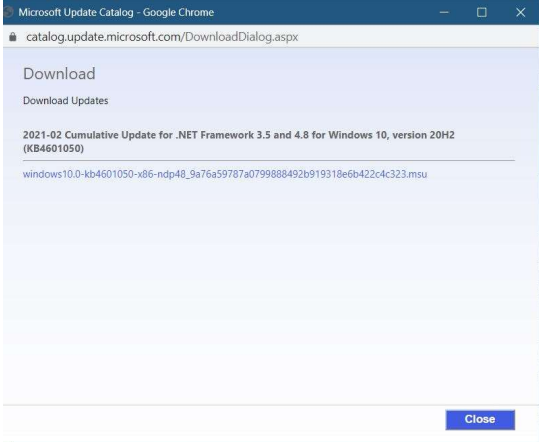
Date: 20210216
CVE: CVE-2021-24111
KB: KB4601050
Title: .NET Framework Denial of Service Vulnerability
Affected product: Microsoft .NET Framework 4.8 on Windows 10 Version 20H2 for x64-based Systems
Affected component: Issuing CNA
Severity: Important
Impact: Denial of Service
Exploit: n/a

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

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

C:\Users\NOMESH\Desktop\Win sem 2021\secure coding\wesng-master>

```



Microsoft Update Catalog - Google Chrome

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2021-02 Cumulative Update for .NET Framework 3.5 and 4.8 for Windows 10, version 20H2 (KB4601050)

windows10.0-kb4601050-x86-ndp48\_9a76a59787a0799888492b919310e6b42c4c323.msu

Close

Products	Classification	Last Updated	Version	Size	
Windows Server, version 1903 and later	Security Updates	2/8/2021	n/a	65.0 MB	
Windows 10, version 1903 and later	Security Updates	2/8/2021	n/a	41.6 MB	
Windows 10, version 1903 and later	Security Updates	2/8/2021	n/a	41.6 MB	
Windows 10, version 1903 and later	Security Updates	2/8/2021	n/a	65.0 MB	
Windows Server, version 1903 and later	Security Updates	2/8/2021	n/a	41.6 MB	
Windows 10, version 1903 and later	Security Updates	2/8/2021	n/a	41.6 MB	
Windows 10, version 1903 and later	Security Updates	2/8/2021	n/a	65.0 MB	
Windows Server, version 1903 and later	Security Updates	2/8/2021	n/a	65.0 MB	
Windows 10, version 1903 and later	Security Updates	2/8/2021	n/a	41.6 MB	
2021-02 Cumulative Update for .NET Framework 3.5 and 4.8 for Windows Server, version 2004 for ARM64 (KB4601050)	Windows Server, version 1903 and later	Security Updates	2/8/2021	n/a	41.6 MB

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I updates my System from reported vulnerablilites.