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TOPIC-Automated Vulnerability Analysis and Patch Management Experiment and Analysis

• Deploy Windows Exploit Suggester - Next Generation (WES-NG)

• Obtain the system information and check for any reported vulnerabilities.

• If any vulnerabilities reported, apply patch and make your system safe.

• Submit the auto-generated report using pwndoc.

- At first copy all system info into text file.

```
C:\Users\bhavy>cd onedrive

C:\Users\bhavy\OneDrive>cd desktop

C:\Users\bhavy\OneDrive\Desktop>cd wesng-master

C:\Users\bhavy\OneDrive\Desktop\wesng-master>systeminfo>systeminfo_19bcn7257.txt
```

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- Download wesng-master and run wes.py file into machine to check for vulnerabilitiesin our machine.

```
C:\Users\bhavy\OneDrive\Desktop\wesng-master>python 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 20210607

C:\Users\bhavy\OneDrive\Desktop\wesng-master>python wes.py systeminfo_19bcn7257.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
    - Installed hotfixes (7): KB4601554, KB4562830, KB4577586, KB4589212, KB4598481, KB5003173, KB5003242
[+] Loading definitions
    - Creation date of definitions: 20210607
[+] 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
```

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```
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.
```

- The missing patches are not available in the microsoft update catlog.