

ASSIGNMENT-13

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Windows exploit suggester:

This is a tool that helps you to identify the vulnerability in your naïve windows system.

Double click on the setup.py to setup windows exploit suggester. Now open command prompt do as follows

```
E:\College\SEM - 6\LABS\SECURE-CODING\wes ng\wesng-master\wesng-master>systeminfo > systeminfo_sc_demo.txt
E:\College\SEM - 6\LABS\SECURE-CODING\wes ng\wesng-master\wesng-master>wes.py systeminfo_sc_demo.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: 19043
    - Version: 20H2
    - Architecture: x64-based
    - Installed hotfixes (9): KB5003254, KB4562830, KB4577586, KB4580325, KB4589212, KB4598481, KB5000736, KB5003214, KB
5003503
[+] Loading definitions
    - Creation date of definitions: 20210530
[+] Determining missing patches
[+] Found vulnerabilities
```

Pipe the systeminfo as a txt file to the wes.py and it will list all the vulnerabilities in the system. At last it will give you all the patches that are required to patch the vulnerabilities as below.

```
[+] 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.
```

Now go to the Microsoft catalog to download the required hotfixes I will be like below.

Microsoft Update Catalog

Search results for "KB5003173"

Updates: 1 - 22 of 22 (page 1 of 1)

Title	Products	Classification	Last Updated	Version	Size	Download
2021-05 Cumulative Update for Windows 10 Version 21H1 for ARM64-based Systems (KB5003173)	Windows 10, version 1903 and later; Windows Insider Pre-Release	Security Updates	5/18/2021	n/a	619.3 MB	Download
2021-05 Cumulative Update for Windows 10 Version 21H1 for x64-based Systems (KB5003173)	Windows 10, version 1903 and later; Windows Insider Pre-Release	Security Updates	5/18/2021	n/a	572.6 MB	Download
2021-05 Cumulative Update for Windows 10 Version 21H1 for x86-based Systems (KB5003173)	Windows 10, version 1903 and later; Windows Insider Pre-Release	Security Updates	5/18/2021	n/a	270.4 MB	Download
2021-05 Cumulative Update for Windows Server, version 2004 for x64-based Systems (KB5003173)	Windows Server, version 1903 and later	Security Updates	5/10/2021	n/a	572.6 MB	Download
2021-05 Cumulative Update for Windows 10 Version 2004 for x64-based Systems (KB5003173)	Windows 10, version 1903 and later	Security Updates	5/10/2021	n/a	572.6 MB	Download
2021-05 Cumulative Update for Windows 10 Version 2004 for x86-based Systems (KB5003173)	Windows 10, version 1903 and later	Security Updates	5/10/2021	n/a	270.4 MB	Download
2021-05 Cumulative Update for Windows Server, version 2004 for ARM64-based Systems (KB5003173)	Windows Server, version 1903 and later	Security Updates	5/10/2021	n/a	619.3 MB	Download
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2021-05 Cumulative Update for Windows Server, version 20H2 for ARM64-based Systems (KB5003173)	Windows Server, version 1903 and later	Security Updates	5/10/2021	n/a	572.6 MB	Download
2021-05 Cumulative Update for Windows 10 Version 20H2 for x64-based Systems (KB5003173)	Windows 10, version 1903 and later	Security Updates	5/10/2021	n/a	572.6 MB	Download
2021-05 Cumulative Update for Windows 10 Version 20H2 for x86-based Systems (KB5003173)	Windows 10, version 1903 and later	Security Updates	5/10/2021	n/a	270.4 MB	Download
2021-05 Cumulative Update for Windows Server, version 20H2 for ARM64-based Systems (KB5003173)	Windows Server, version 1903 and later	Security Updates	5/10/2021	n/a	619.3 MB	Download
2021-05 Cumulative Update for Windows 10 Version 20H2 for ARM64-based Systems (KB5003173)	Windows 10, version 1903 and later	Security Updates	5/10/2021	n/a	619.3 MB	Download
2021-05 Dynamic Cumulative Update for Windows 10 Version 21H1 for ARM64-based Systems (KB5003173)	Windows 10 GDR-DU; Windows Insider Pre-Release	Security Updates	5/18/2021	n/a	618.3 MB	Download
2021-05 Dynamic Cumulative Update for Windows 10 Version 21H1 for x64-based Systems (KB5003173)	Windows 10 GDR-DU; Windows Insider Pre-Release	Security Updates	5/18/2021	n/a	571.5 MB	Download
2021-05 Dynamic Cumulative Update for Windows 10 Version 2004 for x64-based Systems (KB5003173)	Windows 10 GDR-DU	Security Updates	5/10/2021	n/a	269.8 MB	Download
2021-05 Dynamic Cumulative Update for Windows 10 Version 2004 for x86-based Systems (KB5003173)	Windows 10 GDR-DU	Security Updates	5/10/2021	n/a	269.8 MB	Download
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Download the appropriate hotfixes for your pc type **winver** in start to get the version of the pc you are using. Download your hotfixes and fix your vulnerabilities.



C:\Windows\System32\cmd.exe

Severity: Important

Impact: Security Feature Bypass

Exploit: n/a

Date: 20210511

CVE: CVE-2021-31208

KB: KB5003173

Title: Windows Container Manager Service Elevation of Privilege Vulnerability

Affected products: Windows 10 Version 20H2 and Windows Server 20H2-based Systems

Affected components: Trusted User Engine (TUE)

Severity: Important

Impact: Elevation of Privilege

Exploit: n/a

Date: 20210511

CVE: CVE-2021-31208

KB: KB5003173

Title: Windows Container Manager Service Elevation of Privilege Vulnerability

Affected products: Windows 10 Version 20H2 and Windows Server 20H2-based Systems

Affected components: Trusted User Engine (TUE)

Severity: Important

Impact: Elevation of Privilege

Exploit: n/a

Date: 20210511

CVE: CVE-2021-28476

KB: KB5003173

Title: Hyper-V Remote code execution vulnerability

Affected products: Windows 10 Version 20H2 and Windows Server 20H2-based Systems

Affected components: Trusted User Engine (TUE)

Severity: critical

Affected products: Remote code execution

Exploit: n/a

Date: 20210511

CVE: CVE-2021-28476

KB: KB5003173

Title: Hyper-V Remote code execution vulnerability

Affected products: Windows 10 Version 20H2 and Windows Server 20H2-based Systems

Affected components: Trusted User Engine (TUE)

Severity: critical

Affected products: Remote code execution

Exploit: n/a

[+] Missing patches: 2

- KB5003173 patch has 50 vulnerabilities

- KB4601050 patch has 2 vulnerabilities

[+ KB tvdth the most recent release date

- ID KB5003173

- Release date 20210511

[+ d Done . Displaying 82 of the 82 vulnerabilities I found .



