Secure Coding Lab - 13

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Note : this is done in virtual machine.

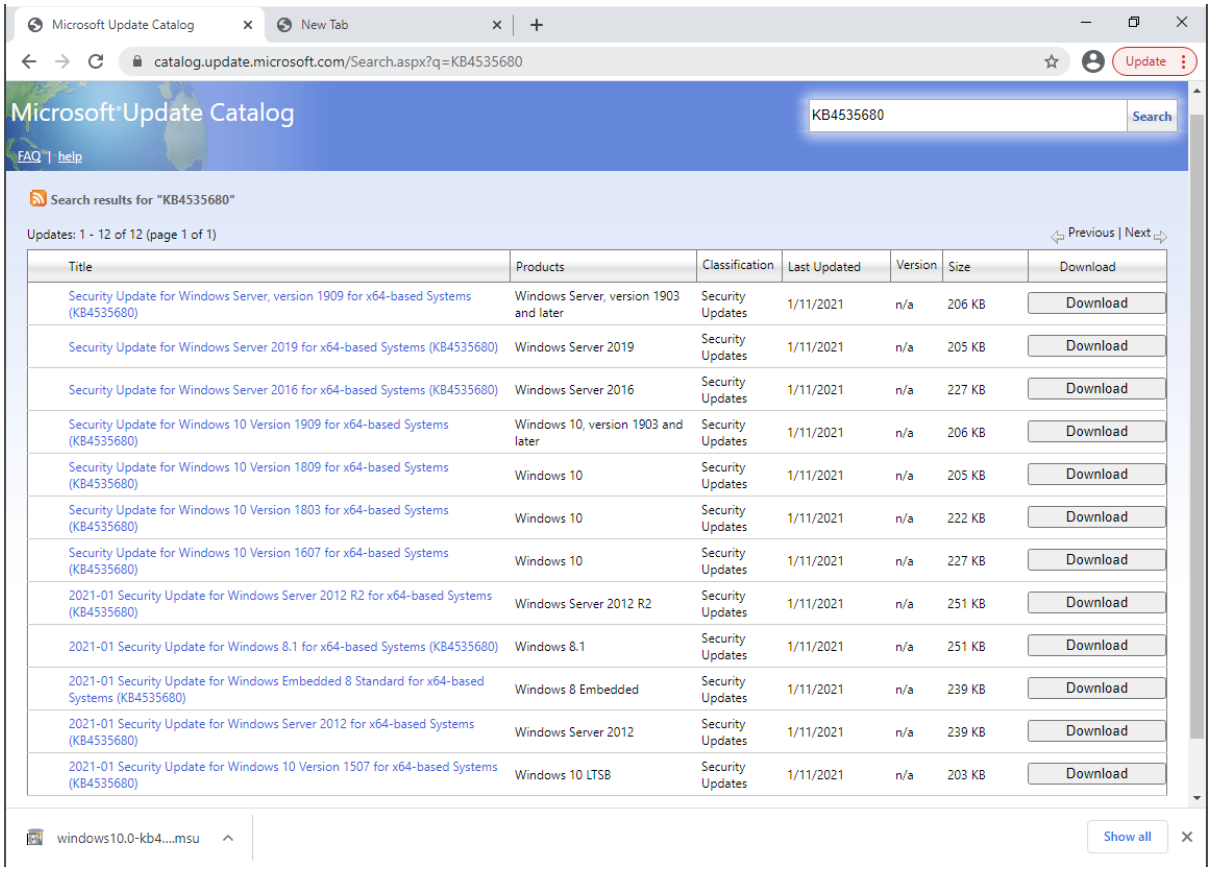
After installing the wesng from github.

```
C:\Users\IEUser\Downloads\wesng-master\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\IEUser\Downloads\wesng-master\wesng-master>systeminfo > sysinfo.txt
```

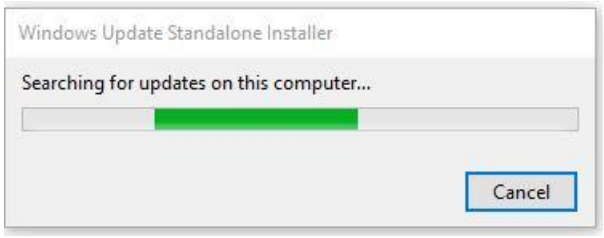
```
C:\Users\IEUser\Downloads\wesng-master\wesng-master>python wes.py sysinfo.txt
WARNING:root:chardet module not installed. In case of encoding errors, install chardet using: pip3 install chardet
Windows Exploit Suggester 0.98 ( https://github.com/bitsadmin/wesng/ )
[+] Parsing systeminfo output
[+] Operating System
    - Name: Windows 10 Version 1809 for x64-based Systems
    - Generation: 10
    - Build: 17763
    - Version: 1809
    - Architecture: x64-based
    - Installed hotfixes (13): KB4580979, KB4462930, KB4465065, KB4470788, KB4480056, KB4486153, KB4489907, KB4561600, KB4566424, K
B4580325, KB4587735, KB5003243, KB4592440
[+] Loading definitions
    - Creation date of definitions: 20210607
[+] Determining missing patches
[+] Found vulnerabilities

Date: 20181113
CVE: CVE-2018-8566
KB: KB4465664
Title: BitLocker Security Feature Bypass Vulnerability
Affected product: Windows 10 Version 1809 for x64-based Systems
Affected component: BitLocker
Severity: Important
Impact: Security Feature Bypass
Exploit: n/a

Date: 20181129
CVE: ADV180030
KB: KB4477029
Title: November 20, 2018 Flash Updates
Affected product: Adobe Flash Player on Windows 10 Version 1809 for x64-based Systems
Affected component: Adobe Flash Player
Severity: Critical
Impact: Remote Code Execution
Exploit: n/a
```

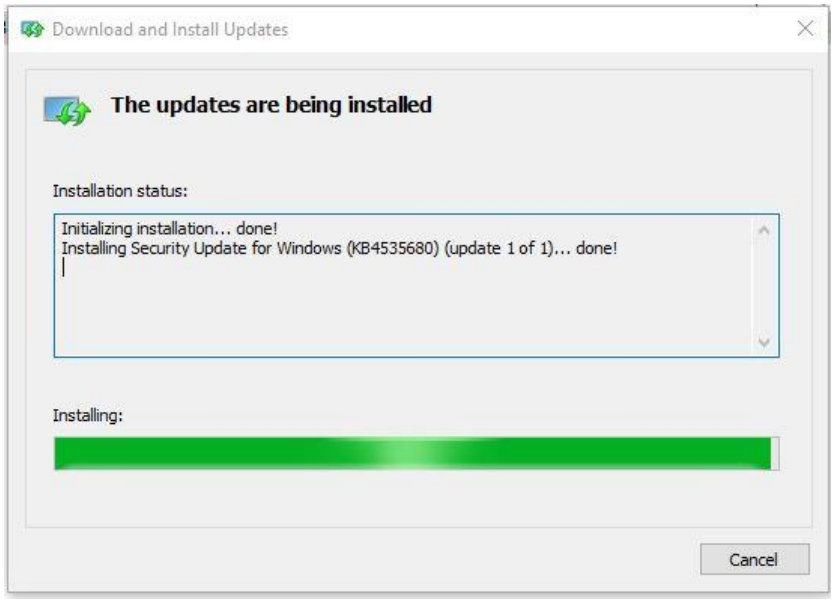
```
[+] Missing patches: 17
    - KB4512578: patches 112 vulnerabilities
    - KB5003171: patches 36 vulnerabilities
    - KB4507419: patches 6 vulnerabilities
    - KB4483452: patches 4 vulnerabilities
    - KB4556441: patches 4 vulnerabilities
    - KB4535101: patches 4 vulnerabilities
    - KB4578973: patches 4 vulnerabilities
    - KB4570505: patches 4 vulnerabilities
    - KB4514601: patches 2 vulnerabilities
    - KB4535680: patches 2 vulnerabilities
    - KB4601887: patches 2 vulnerabilities
    - KB4465664: patches 1 vulnerability
    - KB4477029: patches 1 vulnerability
    - KB4487038: patches 1 vulnerability
    - KB4516115: patches 1 vulnerability
    - KB4519337: patches 1 vulnerability
    - KB4558997: patches 1 vulnerability
[+] KB with the most recent release date
    - ID: KB5003171
    - Release date: 20210511

[+] Done. Displaying 186 of the 186 vulnerabilities found.

C:\Users\IEUser\Downloads\wesng-master\wesng-master>
```

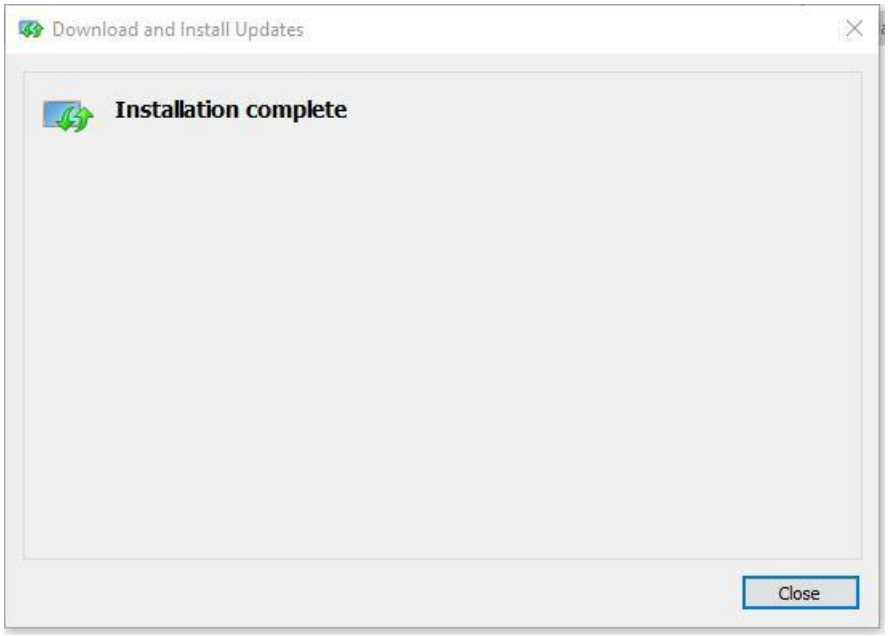
These are the vulnerabilities found in the machine. And the above-mentioned vulnerabilities are patched in this report.



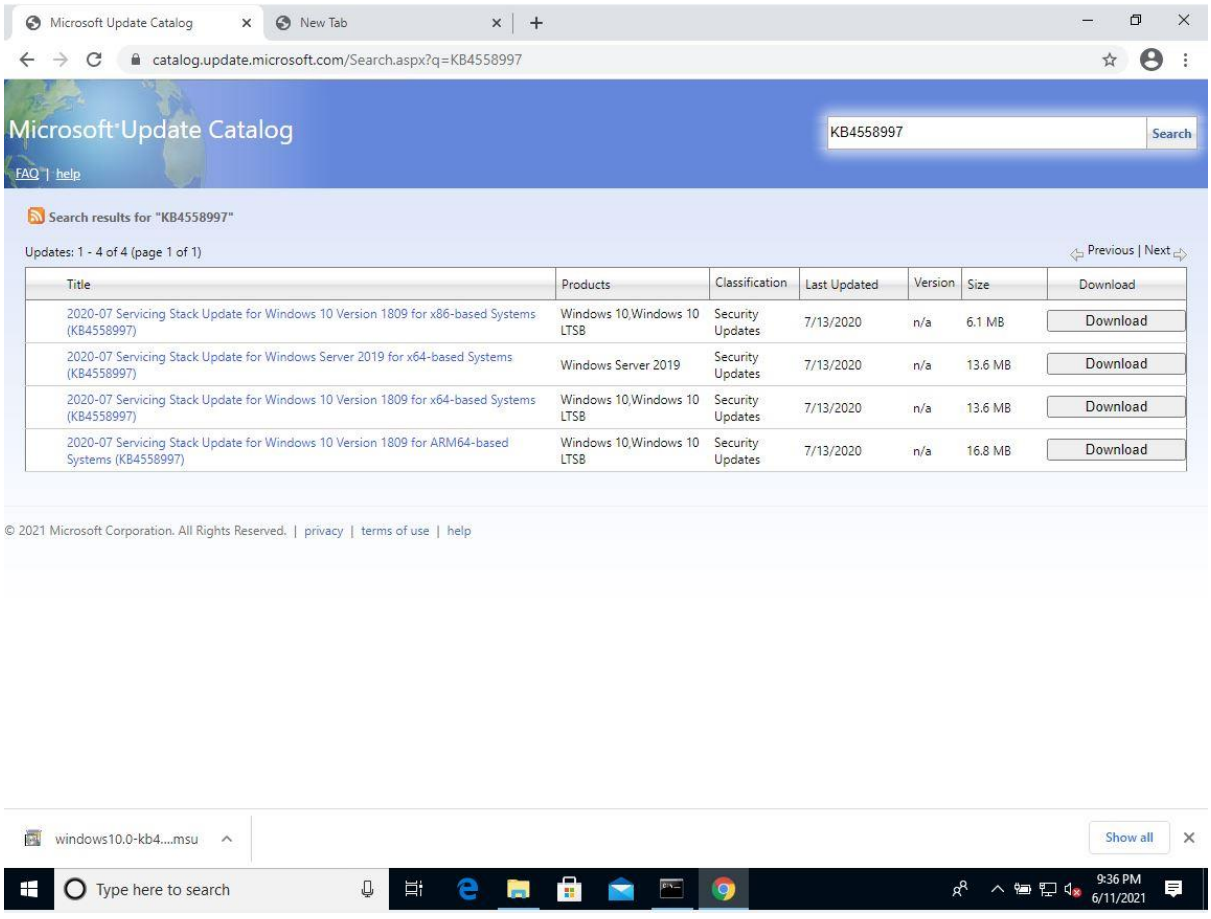
Downloaded the respective msu file and started installing it.



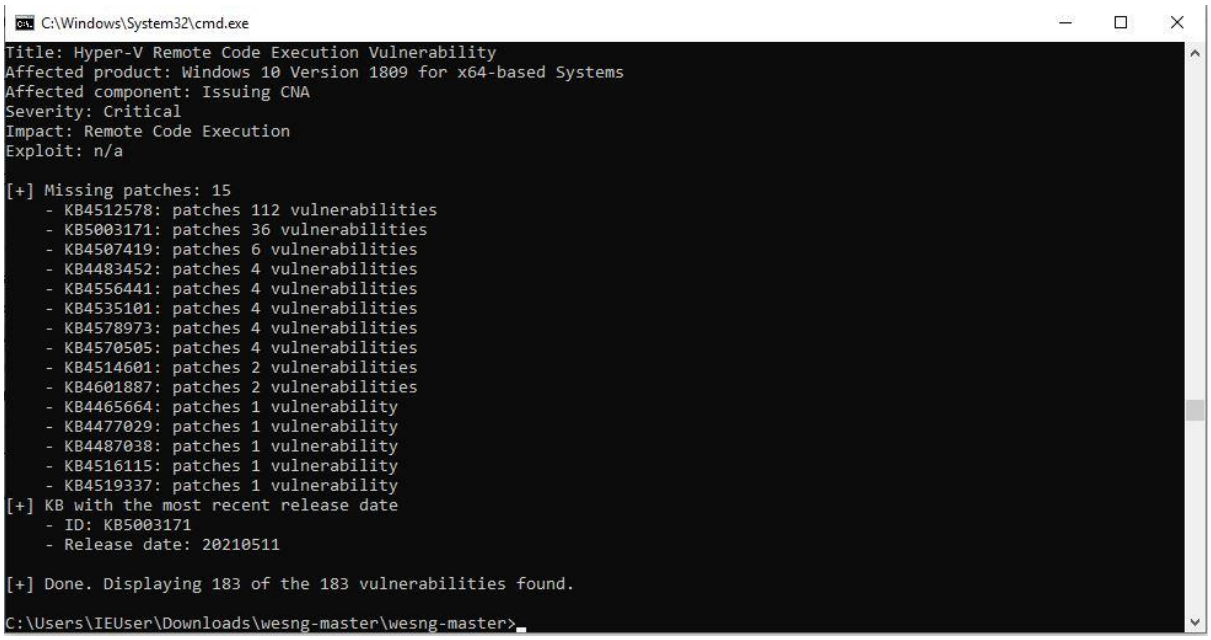




Similarly, Install the updates for last vulnerability also.



Now running again the systeminfo and wes.py:



You can see total 3 vulnerabilities have eliminated. Similarly, you can do for others.