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Secure Coding

Lab experiment - 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 are reported, apply patches and make your system safe.
- Submit the auto-generated report using pwndoc.
- 1) Clone the Windows Exploit Suggester repo and run the wes.py

```
:\Users\ganga>cd C:\Users\ganga\Downloads\wesng-master\wesng-master
::\Users\ganga\Downloads\wesng-master\wesng-master>.\wes.py
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/ )
 oositional arguments:
  systeminfo
                         Specify systeminfo.txt file
  qfefile
                         Specify the file containing the output of the
                         'wmic qfe' command
optional arguments:
  -u, --update
                        Download latest list of CVEs
  --update-wes
                         Download latest version of wes.py
  --version
                        Show version information
  --definitions [DEFINITIONS]
                         Definitions zip file (default:
                         definitions.zip)
  -p INSTALLEDPATCH [INSTALLEDPATCH ...]
Manually specify installed patches in addition
to the ones listed in the systeminfo.txt file
  -d, --usekbdate
                         Filter out vulnerabilities of KBs published
                         before the publishing date of the most recent
                         KB installed
```

2) Output your system info with this command

C:\Users\ganga\Downloads\wesng-master\wesng-master>systeminfo>sys.txt

```
sys - Notepad
                                                                                                     File Edit Format View Help
Host Name:
                          LAPTOP-VMTQ6TRH
                          Microsoft Windows 10 Home
OS Name:
OS Version:
                          10.0.19042 N/A Build 19042
OS Manufacturer:
                          Microsoft Corporation
OS Configuration:
                          Standalone Workstation
OS Build Type:
                          Multiprocessor Free
                          gangasuresh2000@gmail.com
Registered Owner:
Registered Organization:
                          HP
Product ID:
                          00325-81260-68063-AAOEM
Original Install Date:
                          23-04-2021, 22:32:43
System Boot Time:
                          11-06-2021, 09:19:05
System Manufacturer:
System Model:
                          HP Pavilion Gaming Laptop 15-cx0xxx
System Type:
                          x64-based PC
Processor(s):
                          1 Processor(s) Installed.
                          [01]: Intel64 Family 6 Model 158 Stepping 10 GenuineIntel ~2208 Mhz
BIOS Version:
                          Insyde F.12, 11-10-2018
                          C:\WINDOWS
Windows Directory:
System Directory:
                          C:\WINDOWS\system32
                          \Device\HarddiskVolume3
Boot Device:
System Locale:
                          en-gb; English (United Kingdom)
Input Locale:
                          00004009
                           (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi
Time Zone:
                          16,272 MB
Total Physical Memory:
Available Physical Memory: 8,046 MB
Virtual Memory: Max Size: 18,704 MB
Virtual Memory: Available: 6,887 MB
Virtual Memory: In Use: 11,817 MB
Page File Location(s):
                          C:\pagefile.sys
Domain:
                          WORKGROUP
Logon Server:
                           \\LAPTOP-VMTQ6TRH
Hotfix(s):
                           7 Hotfix(s) Installed.
                          [01]: KB5003254
```

3) Now look for vulnerabilities using your last txt file output

4) All vulnerabilities in your system are shown in vul.csv

