LAB-13

Secure Coding

Lab experiment – Automated Vulnerability Analysis and Patch

ManagementExperiment and Analysis

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18BCN7072

- 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 systemsafe.
- 1) Clone the Windows Exploit Suggester repo and run the wes.py
- 2) Output your system info with this command
- 3) Now look for vulnerabilities using your last txt file output
- 4) All vulnerabilities in your system are shown in vul.csv

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Determine vulnerabilities explicitly specifying definitions file wes.py systeminfo.txt --definitions C:\tmp\mydefs.zip
 List only vulnerabilities with exploits, excluding IE, Edge and Flash wes.py systeminfo.txt --exploits-only --hide "Internet Explorer" Edge Flash wes.py systeminfo.txt -e --hide "Internet Explorer" Edge Flash
  Only show vulnerabilities of a certain impact wes.py systeminfo.txt --impact "Remote Code Execution" wes.py systeminfo.txt -i "Remote Code Execution"
  Only show vulnerabilities of a certain severity wes.py systeminfo.txt --severity critical wes.py systeminfo.txt -s critical
  Validate supersedence against Microsoft's online Update Catalog wes.py systeminfo.txt --muc-lookup
  Download latest version of WES-NG wes.py --update-wes
:\Users\Public\Downloads\wesng-master>systeminfo>yss.txt
:\Users\Public\Downloads\wesng-master>systeminfo>yss.txt --output vul.csv
MARNING:root.tandret module not installed. In case of encoding errors, install chardet using: pip3 install chardet
#indows 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): K85003254, KB4562830, KB4577586, KB4580325, KB4580212, KB5003637, KB5003503
| Loading definitions
- Creation date of definitions: 20210607
| Determining missing patches
| Found vulnerabilities
| Found vulnerabilities
| Found vulnerabilities
| Found vulnerabilities
| KB45003059 patches 20 vulnerabilities
- LB45003059 patches 
  gys - Notepad
File Edit Format View Help
Host Name:
                                                                                           LAPTOP-9GPA2HP1
                                                                                           Microsoft Windows 10 Home Single Language
OS Name:
OS Version:
                                                                                             10.0.19042 N/A Build 19042
                                                                                           Microsoft Corporation
Standalone Workstation
OS Manufacturer:
OS Configuration:
OS Build Type:
                                                                                            Multiprocessor Free
Registered Owner:
                                                                                            N/A
Registered Organization:
                                                                                           N/A
Product ID:
                                                                                             00327-35870-75472-AAOEM
Original Install Date:
                                                                                            3/15/2021, 3:25:18 PM
System Boot Time:
                                                                                           6/11/2021, 6:24:44 PM
System Manufacturer:
                                                                                            Acer
                                                                                           Nitro AN515-43
System Model:
System Type:
                                                                                           x64-based PC
Processor(s):
                                                                                            1 Processor(s) Installed.
                                                                                             [01]: AMD64 Family 23 Model 24 Stepping 1 AuthenticAMD ~1400 Mhz
BIOS Version:
                                                                                            Insyde Corp. V1.08, 12/24/2019
Windows Directory:
                                                                                           C:\WINDOWS
System Directory:
                                                                                            C:\WINDOWS\system32
```

Ln 1, Col 1

100% Windows (CRLF)

UTF-8

Boot Device:

System Locale:

Input Locale:

Total Physical Memory:

Available Physical Memory: 804 MB Virtual Memory: Max Size: 17,859 MB Virtual Memory: Available: 8,171 MB

Time Zone:

\Device\HarddiskVolume1

en-us; English (United States)

(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

in;Indonesian

6,083 MB

