SECURE CODING LAB-13 07-06-2021

SLOT-L39+L40 18BCN7134 NIHARIKA VISWANADHUNI

Lab experiment - Automated Vulnerability Analysis and Patch Management

QUESTION

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 reported, apply patch and make your system safe.
- Submit the auto-generated report using pwndoc.

OUTPUT

Download Next Generation from https://github.com/bitsadmin/wesng. Now run wes.py Command:python wes.py

Update wes.py

Command Prompt

```
C:\Users\nihar\Downloads\wesng-master>python wes.py --update
Windows Exploit Suggester 0.98 ( https://github.com/bitsadmin/wesng/ )
[+] Updating definitions
[+] Obtained definitions created at 20210607
```

Now, create a text file to store the vulnerabilities

Command Prompt

C:\Users\nihar\Downloads\wesng-master>systeminfo > system_demo.txt

Now enter the vulnerabilities to the text file created.

```
:\Users\nihar\Downloads\wesng-master>python wes.py system_demo.txt
√indows Exploit Suggester 0.98 ( https://github.com/bitsadmin/wesng/ )
 +] Parsing systeminfo output
 +] Operating System
     Name: Windows 10 Version 2004 for x64-based Systems
    - Generation: 10
- Build: 19041
    - Version: 2004
    - Architecture: x64-based
    - Installed hotfixes (10): KB5003254, KB4577266, KB4577586, KB4580325, KB4586864, KB4589212, KB4593175, KB4598481, KB5003637, KB5003503
[+] Loading definitions
    - Creation date of definitions: 20210607
 +] Determining missing patches
 +1 Found vulnerabilities
Date: 20200714
CVE: CVE-2020-1346
KB: KB4566785
Title: Windows Modules Installer Elevation of Privilege Vulnerability
 Affected product: Windows 10 Version 2004 for x64-based Systems
Affected component: Issuing CNA
Severity: Important
Impact: Elevation of Privilege
Exploit: n/a
```

Now open the text file to see the vulnerabilities

Command Prompt

