ASSIGNMENT – 13

Automated Vulnerability Analysis and Patch Management

Name : Chaitanya

Faculty : Dr. Sibi Chakkaravarthy S

Reg Num : 19BCN7083

Subject : Secure Coding

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.**

```
C:\Users\gsaib\Desktop\SecureCoding>git clone https://github.com/bitsadmin/wesng
Cloning into 'wesng'...
remote: Enumerating objects: 655, done.
remote: Counting objects: 100% (46/46), done.
remote: Compressing objects: 100% (40/40), done.
remote: Total 655 (delta 22), reused 27 (delta 6), pack-reused 609 eceiving objects: 100% (65
Receiving objects: 100% (655/655), 42.68 MiB | 3.32 MiB/s, done.
Resolving deltas: 100% (382/382), done.
```

```
C:\Users\gsaib\Desktop\SecureCoding\wesng>dir
 Volume in drive C has no label.
 Volume Serial Number is 9809-A0E7

 Directory of C:\Users\gsaib\Desktop\SecureCoding\wesng

07-06-2021  11:21    <DIR>          .
07-06-2021  11:21    <DIR>          ..
07-06-2021  11:21             1,887 .gitignore
07-06-2021  11:21             3,233 CHANGELOG.md
07-06-2021  11:21             3,847 CMDLINE.md
07-06-2021  11:21    <DIR>          collector
07-06-2021  11:21         1,461,698 definitions.zip
07-06-2021  11:21           688,951 demo.gif
07-06-2021  11:21             1,484 LICENSE.txt
07-06-2021  11:21             5,804 muc_lookup.py
07-06-2021  11:21             4,864 README.md
07-06-2021  11:21             1,778 setup.py
07-06-2021  11:21    <DIR>          validation
07-06-2021  11:21            31,818 wes.py
              10 File(s)      2,205,364 bytes
               4 Dir(s)  243,729,100,800 bytes free
```

```
C:\Users\gsaib\Desktop\SecureCoding\wesng>systeminfo > System_info.txt
```

```
C:\Users\gsaib\Desktop\SecureCoding\wesng>python wes.py System_info.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 (8): KB4601554, KB4562830, KB4577586, KB4580325, KB4589212, KB5000736, KB5003173, KB5003242
[+] Loading definitions
    - Creation date of definitions: 20210530
[+] Determining missing patches
[+] Found vulnerabilities

Date: 20210216
CVE: CVE-2021-24111
KB: KB4601050
Title: .NET Framework Denial of Service Vulnerability
Affected product: Microsoft .NET Framework 4.8 on Windows 10 Version 20H2 for x64-based Systems
Affected component: Issuing CNA
Severity: Important
Impact: Denial of Service
Exploit: n/a

Date: 20210216
CVE: CVE-2021-24111
KB: KB4601050
Title: .NET Framework Denial of Service Vulnerability
Affected product: Microsoft .NET Framework 4.8 on Windows 10 Version 20H2 for x64-based Systems
Affected component: Issuing CNA
Severity: Important
Impact: Denial of Service
Exploit: n/a

[+] Missing patches: 1
    - KB4601050: patches 2 vulnerabilities
[+] KB with the most recent release date
    - ID: KB4601050
    - Release date: 20210216
```

```
[+] Done. Displaying 2 of the 2 vulnerabilities found.
```