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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 the patch and make your system safe.
- Submit the auto-generated report using pwndoc. Happy

Learning!!!

EXPERIMENT

Step 1: Clone the following repository link to desktop Link:

https://github.com/bitsadmin/wesng

While cloning we can choose the destination folder to save this zip file.

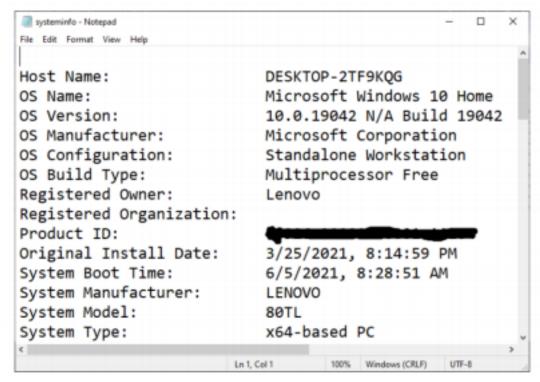
Step 2: Get the System info by running the Systeminfo.exe and store the data in systeminfo.txt

Use the following commands and them in command prompt to get system info

System info > systeminfo.txt

notepad systeminfo.txt

The systeminfo.txt file contains the data related to system specifications, Hotfix, network cards and etc.



BEFORE PATCHING

Step 3:

Run the setup.py Then see update the wes.py to the latest version And then run the wes.py file for the systeminfo.txt file We will get the details of the vulnerabilities along with the appropriate patch.

Missing patch

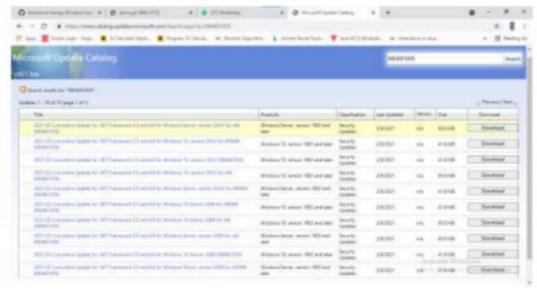
Vulnerability: CVE-2021-24111

Description: .NET framework DOS (Denial of Service) Patch count

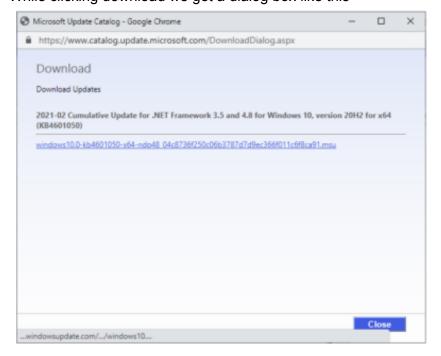
required: 1

AFTER PATCH

Find the missing patch from the windows catalog and install it. Select the appropriate patch which is suitable for the system version and download it.



While clicking download we get a dialog box like this



We can also patch it by the searching on basis of vulnerability. If the missing patch is already downloaded then it gets updated and doesn't appear while running the test again. While running the test we noticed there is a missing patch

```
[+] 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.
```

This might be an OEM error and Microsoft hasn't resolved it yet.

We can use this command to find any major vulnerabilities and the system doesn't have any major vulnerability.