#### **ROOT ME**

### **GETTING STARTED**

To access the lab, click on the link given below:-

https://tryhackme.com/r/room/rrootme



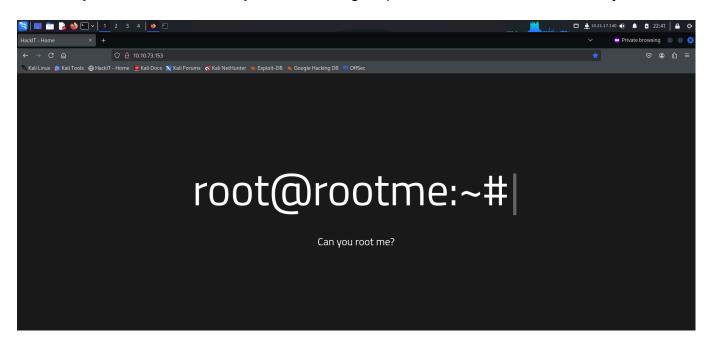
This writeup documents the steps that successfully led to pwnage of the machine. It does not include the dead-end steps encountered during the process (which were numerous). This is just my take on pwning the machine and you are welcome to choose a different path.

#### INFORMATION GATHERING

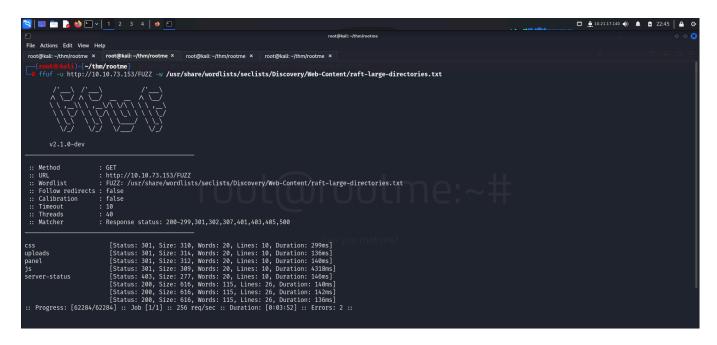
I performed an **nmap** aggressive scan to find open ports and services running on them. It also ran default **nse** scripts and displayed the results.

#### **FOOTHOLD**

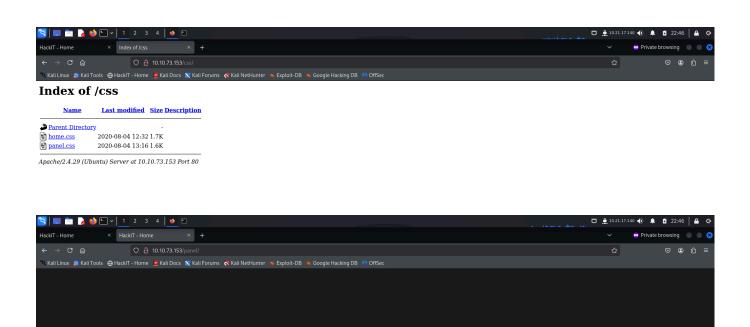
The **nmap** scan revealed an **http** server running on port 80. So I accessed it from my browser.



The web page didn't reveal anything interesting so I used ffuf to find hidden directories.



The directory bruteforce revealed a few directories. I accessed the /css/ directory. It contained a **css** file for another page called **panel**. **Ffuf** had also discovered this directory. So I accessed /panel next.



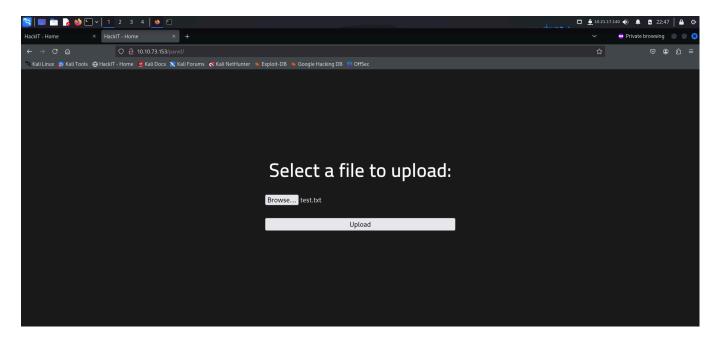
Select a file to upload:

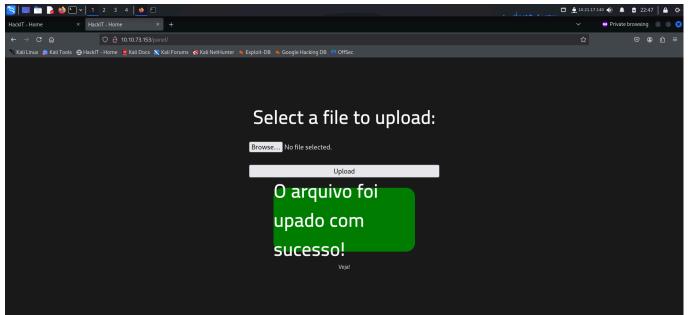
Upload

Browse... No file selected.

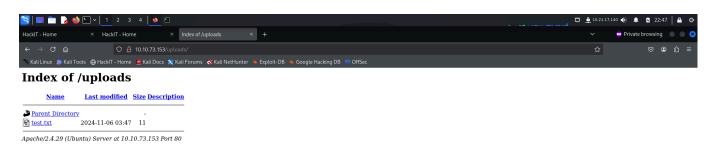
This seemed like a **file upload** functionality. I created and uploaded a dummy file to try it out.

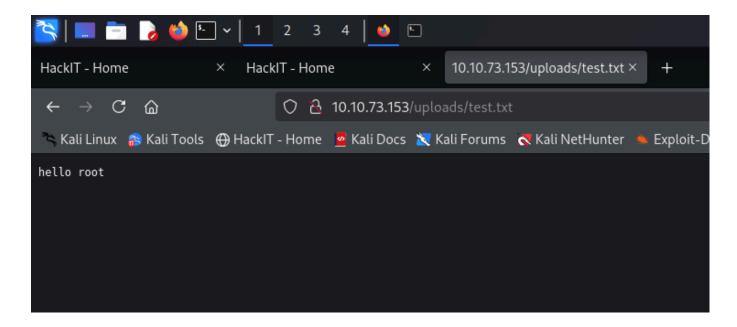






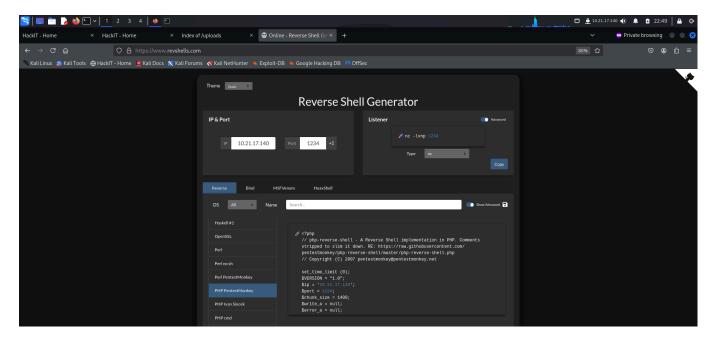
The directory bruteforce had revealed /uploads directory earlier. So I checked it to see if my files were uploaded.

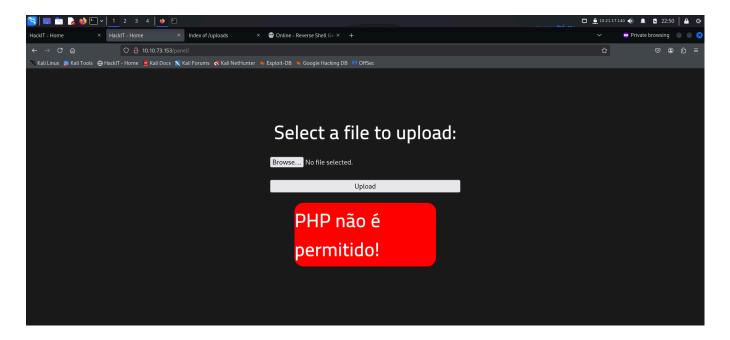




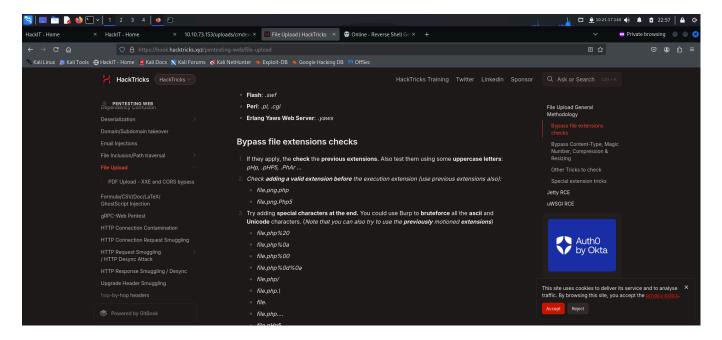
After confirming the upload functionality, I used the **php pentestmonkey** payload to get a reverse shell. I navigated to **revshells** to first configure a payload that would get me a reverse shell.

I entered my IP and port and saved it in a file called revshell.php



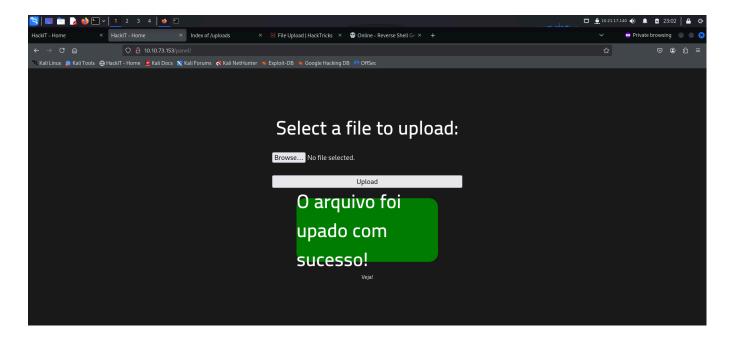


It blocked my php file. So I looked for ways to bypass this security mechanism and tried a few ways given in **hacktricks**.



I changed the extension of my code to Php, php%20 and finally managed to bypass the security check using .php5. After the upload was successful, I started my **netcat** listener.





I then navigated to the /uploads folder and clicked on my payload to execute it and get a reverse shell.

I spawned a pty shell and captured the first flag from /var/www directory.

```
File Actions Edit View Help

root@kali:-/thm/rootme × root@kali:-/thm/r
```

## PRIVILEGE ESCALATION

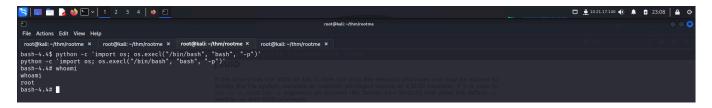
When I checked the binaries with **suid** bit, I found **python** which seemed uncommon.

```
| Red | Red
```

I visited **gtfobins** and looked for a way to exploit this misconfiguration for a privileged access.



I followed the steps mentioned on the website and got root access.



After becoming the **root** user, I had complete control over the system. So I navigated to /root directory and captured the final flag.

```
| Control | Cont
```

## **CONCLUSION**

Here's a short summary of how I pwned root me:

- I discovered a directory allowing file upload operations by performing a directory brute force attack using ffuf.
- I tried uploading a php reverse shell payload but failed due to the target's security configuration.
- I bypassed the file extension check using .php5 extension and executed the reverse shell payload to gain initial access.
- I captured the first flag from /var/www.
- I discovered python in the programs that has an suid bit which was very uncommon.
- I used **gtfobins** to find a way to exploit this misconfiguration and become **root**.
- I then captured the final flag from /root directory.

That's it from my side! I hope you learnt something new.

Until next time;)

# PHPDEVILOPERSWHENSOMEONESAYS THPISDEAD

