<u>Day 24 - [Final Challenge] The Trial Before Christmas</u>

Tool used: kali Linux, Firefox, Remmina, BurpSuite, Netcat, Nmap, Gobuster, MySQL client, Crackstation,

Solution/Walkthrough:

<u>Q1</u>

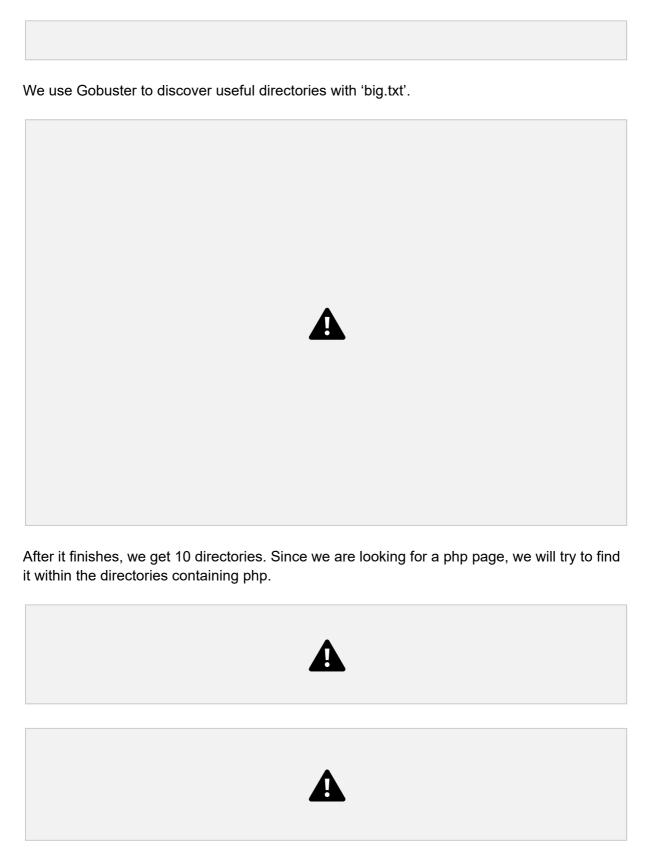


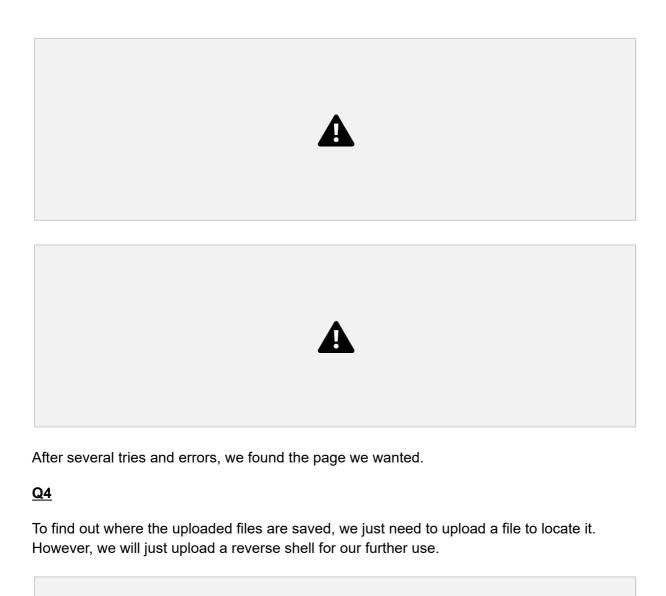
We use Nmap to scan the machine. After scanning, the open port is shown.

<u>Q2</u>

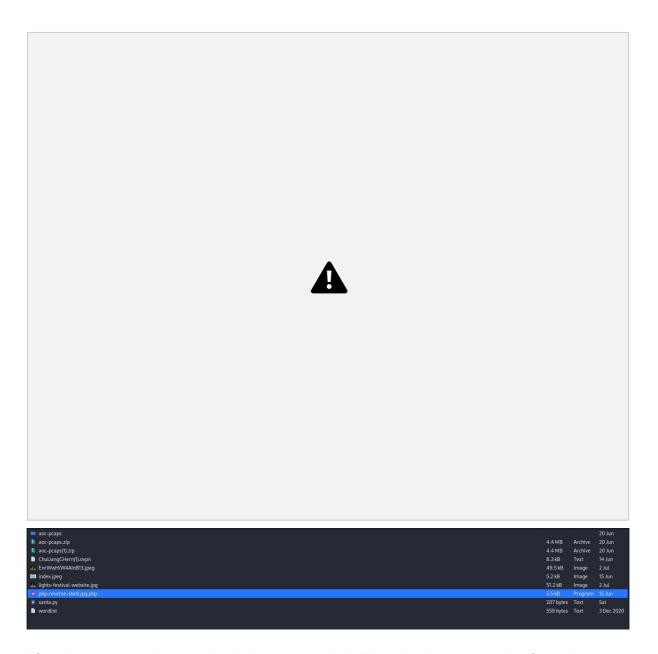


We try the open ports by adding the port number behind the machine ip. We have success on our first try on port 65000.

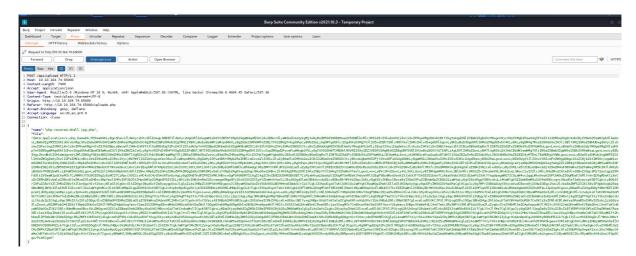




To upload the reverse shell bypassing the client-side filter, we use BurpSuite to intercept JavaScript code files. We will do this by removing the filter from the code.

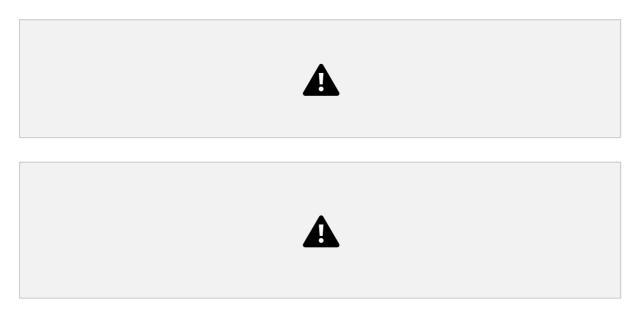


After that, we are going to upload the reverse shell. We take the reverse shell from day 2 and modify it. We will also rename it to make it uploadable.





Then, we intercept the reverse shell successfully. We examine the responses. When we see [filter.js], we drop it.



After the page shows upload successfully, we recheck the directory to find out the location of the uploaded shell saved.

Q5&Q6



We set up a Netcat listener to connect back to the reverse shell.



Before we further use the reverse shell, we will upgrade and stabilise the shell. We follow the steps and commands on TryHackMe.



After the upgradation and stabilisation, we search for web.txt, with the help of hints, we change the directory directly toward 'web.txt.' We read the file, and the flag is shown.

Q7



We keep searching in the directory where we found our previous flag. We get into TheGrid directory, then we read the files which might contain credentials such as databases. We gained success in our first attempt. The name of the database used is also stated.

Q8&Q9



We get access to the database using the MySQL client with the command from TryHackMe. The username and password is obtained from the previous question.



We know that the database name is 'tron' from Q7. However, we further prove it using command [show databases].



Therefore, we directly use [use tron] to enter 'tron' databases. Then, we see the available tables using [show tables] command. After that, we dump out the 'users' table with the command [SELECT * FROM users;]. We do find a user and an encrypted password in the table.



We crack the password with Crackstation.

Q10



The name we discovered is shown here.

<u>Q11</u>



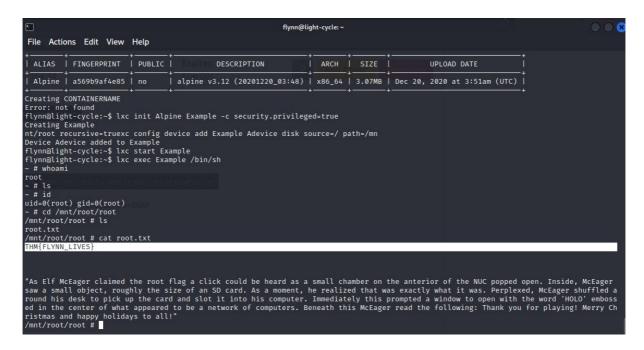
We change our directory back to the first. Then we log into the user 'flynn' with the password using su. then we search for 'user.txt'. We read the file and the flag is shown.

<u>Q12</u>

```
flynn@light-cycle:~$ id
uid=1000(flynn) gid=1000(flynn) groups=1000(flynn),109(lxd)
flynn@light-cycle:~$
```

We use [id] command to check the users' group.

Q13



We follow the steps and commands of TryHackMe, at the end of steps, the flag is also revealed to us.