## Kfiofan1

Description: Two french people want to start the very first fanclub of the youtuber Khaos Farbauti Ibn Oblivion. But they're not very security aware! (IMPORTANT NOTE: The whole challenge is in french, including server conf. Which may add to the difficulty if you are non-native or using a non-azerty keyboard)

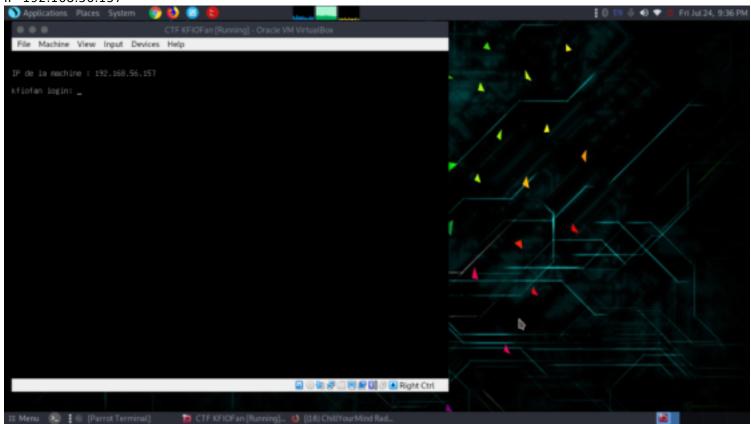
Difficulty: Beginner with some little non-usual twists

Flag: There are four flags to find, not all of them on the solution path

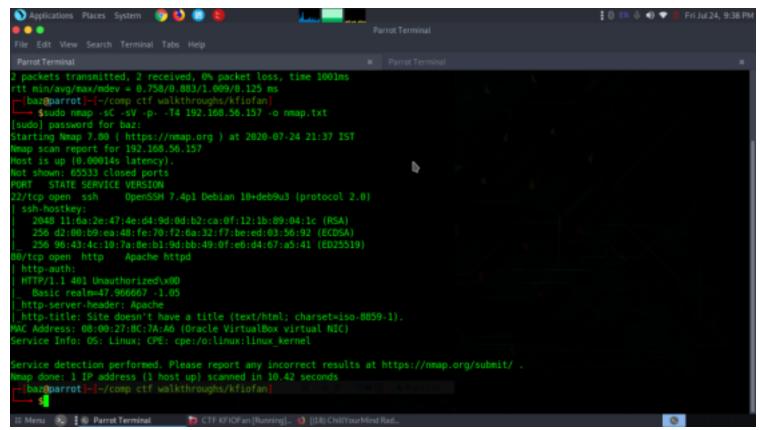
Link to download: https://www.vulnhub.com/entry/ctf-kfiofan-1,260/

## Reconnaisance

The IP of the target machine is provided in the machine IP- 192.168.56.157



Now let's find open ports, services, os, version, host, etc by nmap sudo nmap -sC -sV -p- -T4 192.168.56.153

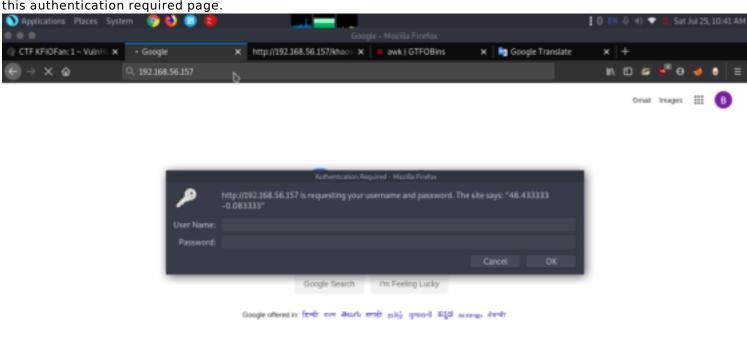


From the scan we got to know two open ports 22(ssh) 80(http)

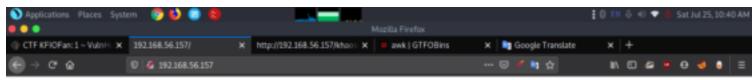
## **Enumeration**

Lets start enumerating port 80 http://192.168.56.157

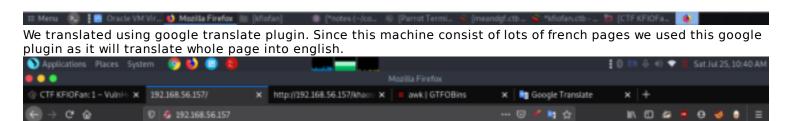
The page had an authentiation required module. To see the actual page we had to find the user and password for this authentication required page.



when clicked cancel we could see another page popup with some french words.

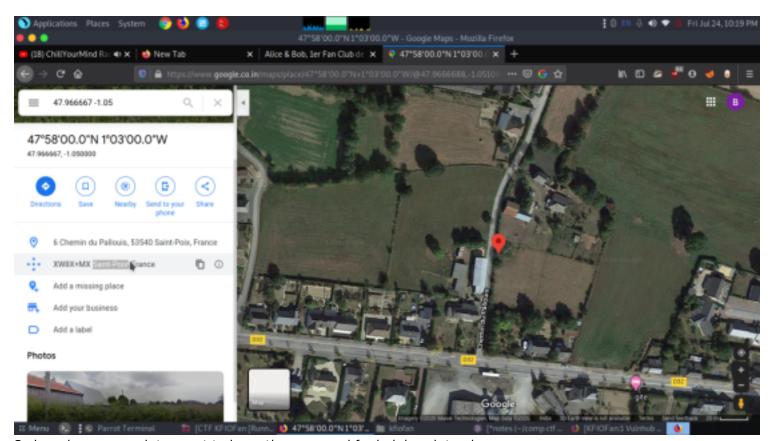


Laisse moi deviner Bob, tu as encore perdu ton mot de passe ? LOL



Let me guess Bob, have you lost your password again? LOL

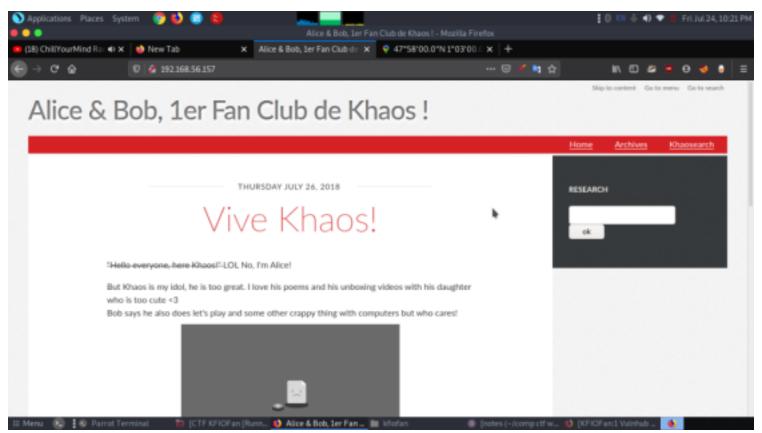
Now we got to know the username is bob and for the password lets try the coordinates given from the authentication page. 47.966667 -1.05



So by using some osint we got to know the password for bob is saint-poix after the authentication completes we got the main http page which was too in french and translated to english.

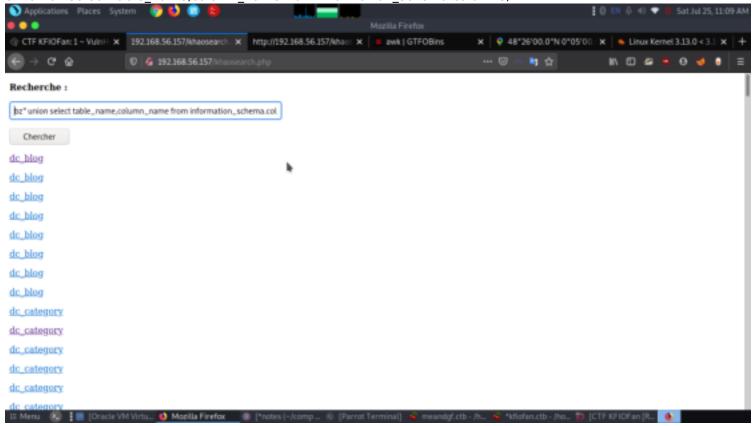


To english using google translate plugin

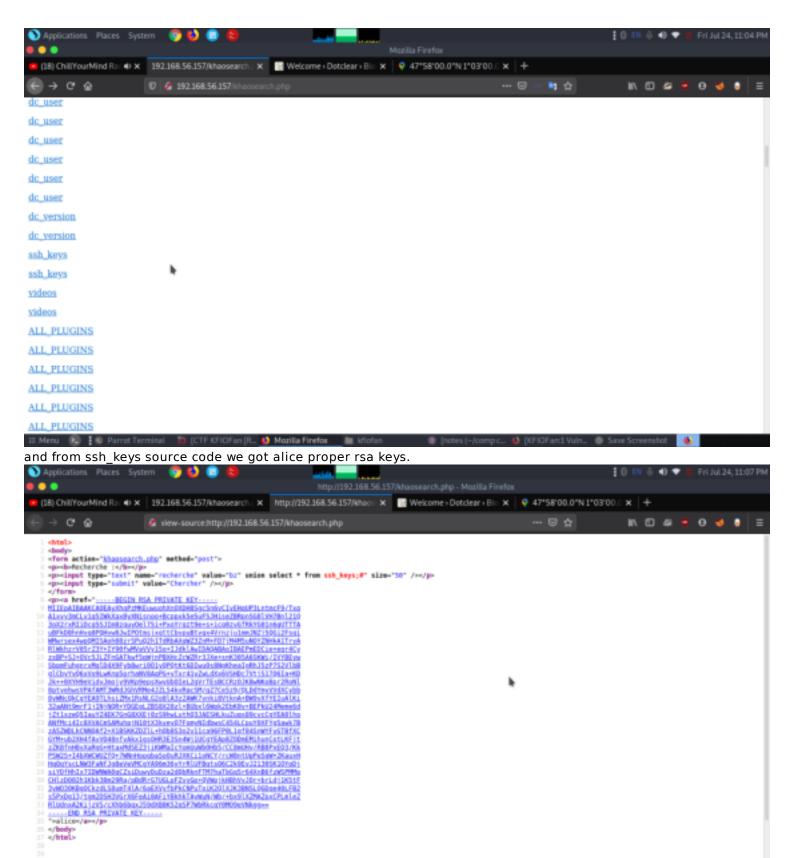


The http page had directories which redirected to 400. so the only directory which was accessible was khaosearch. Let's find what's inside it.

bz" union select table\_name,column\_name from information\_schema.columns;#



So now we got lot's of databases, tables and columns. After looking each of them most of them returned forbidden and error page except ssh\_keys. so when checked inisde the ssh\_keys we found user named alice and also her rsa key was publically displayed.



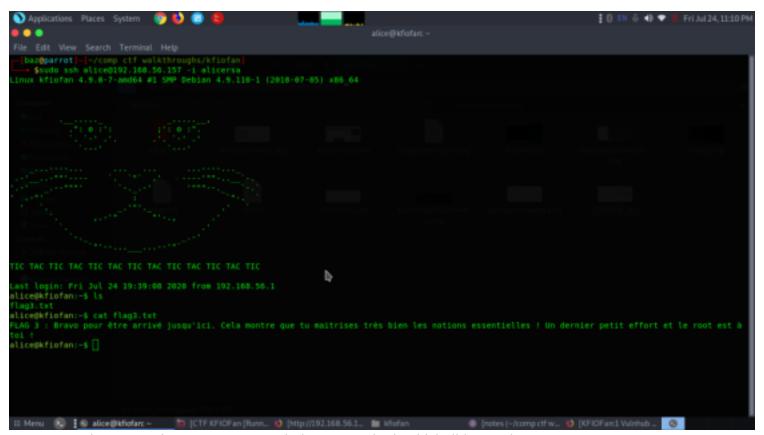
Let's copy this and try to login alice account thorugh ssh using this rsa keys. From here we got the third flag

III Menu 🚷 🖁 ® Parrot Terminal 🐞 [CTF KFIOFan [Runn... 1) http://192.168.56.15... 🗎 [kfiofan]

## **Exploitation**

sudo ssh alice@192.168.56.157 -i alicersa

Now we are into user alice by using rsa keys we managed to enter without the password. after login we got our third flag
cat flag3.txt



Now For getting access into root user we tried some methods which didn't work.

sudo -l

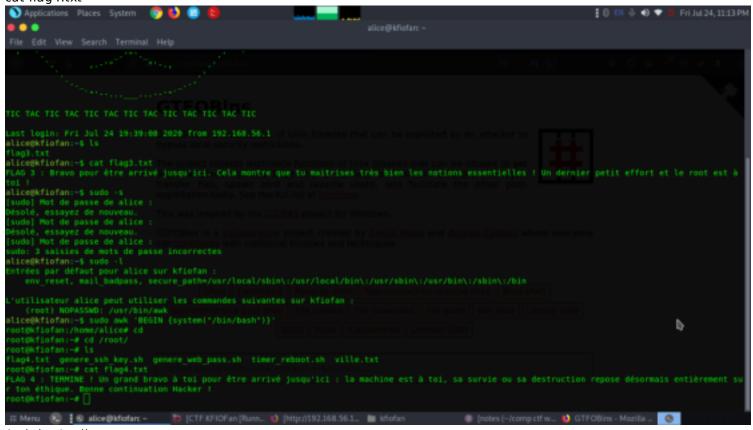
then from gtfobins we got the binary which can escalate and maintain access with elevated privileges if enabled on sudo

sudo awk 'BEGIN {system("/bin/sh")}'

id

cd /root

cat flag4.txt



And that's all

......Happ

Hacking.....