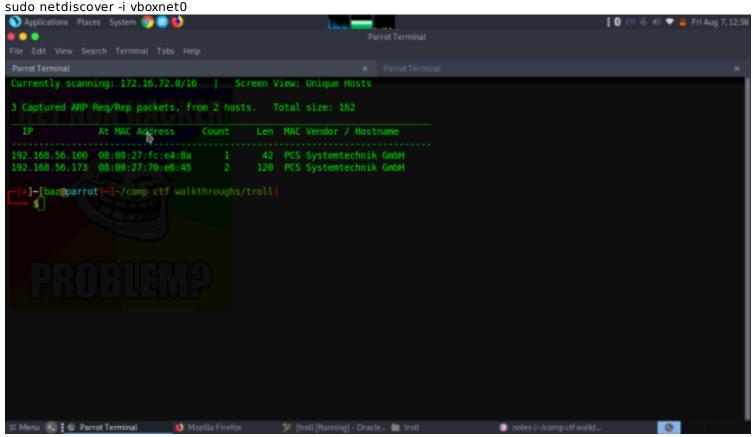
Troll

Troll was inspired by the constant trolling of the machines within the OSCP labs. The goal is simple, gain root and get Proof.txt from the /root directory. Not for the easily frustrated! Fair warning, there be trolls ahead! Difficulty: Beginner; Type: boot2root

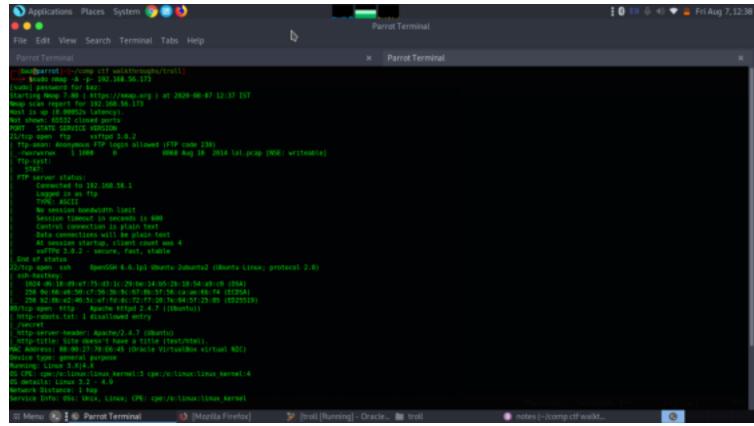
Link to download: https://www.vulnhub.com/entry/tr0ll-1%2C100/

Reconnaisance

Let's start by identifying our tariget IP using netdiscover



IP- 192.168.56.173 Now let's scan our target using nmap to identify open ports, services, versions etc sudo nmap -A -p- 192.168.56.173



we got total of three ports open.

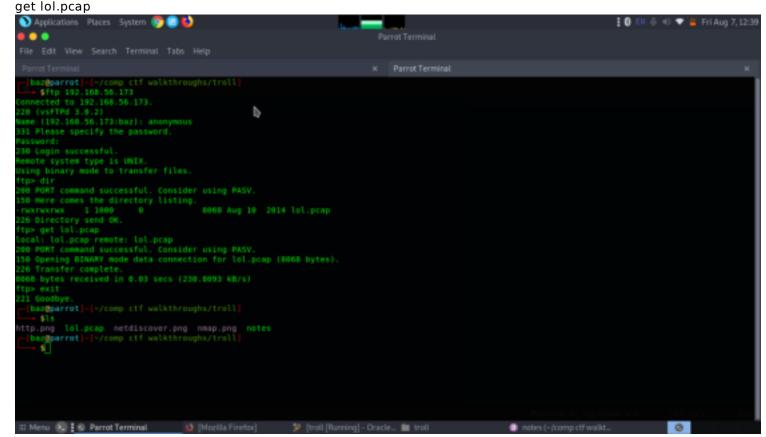
21 (ftp)

22(ssh)

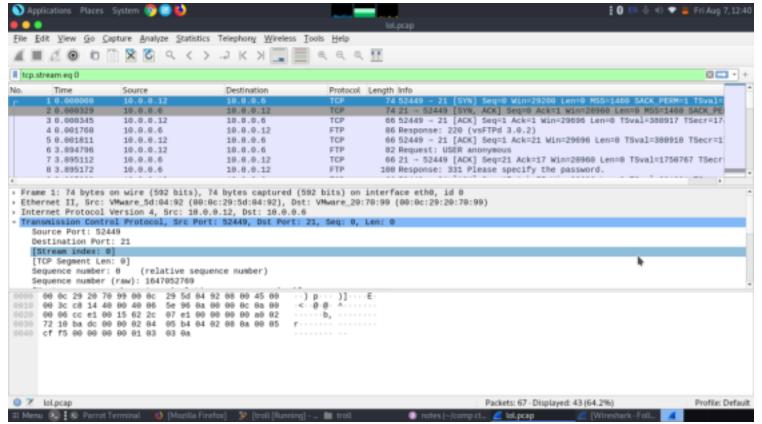
80(http)

Enumeration

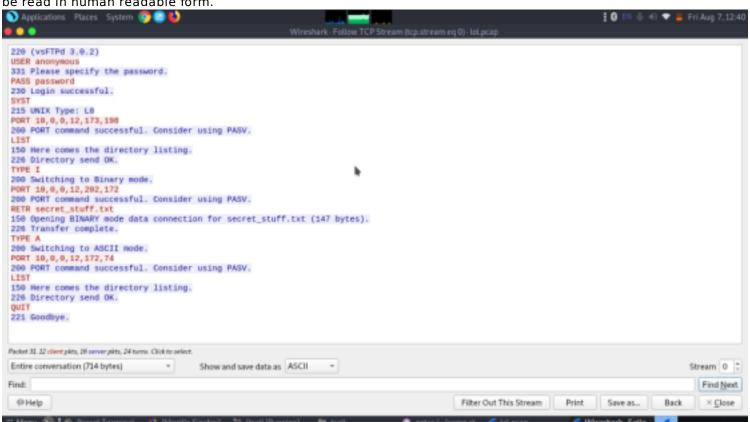
From the nmap scan we got to know there was anonymous login allowed. so let's jump into it. ftp 192.168.56.173



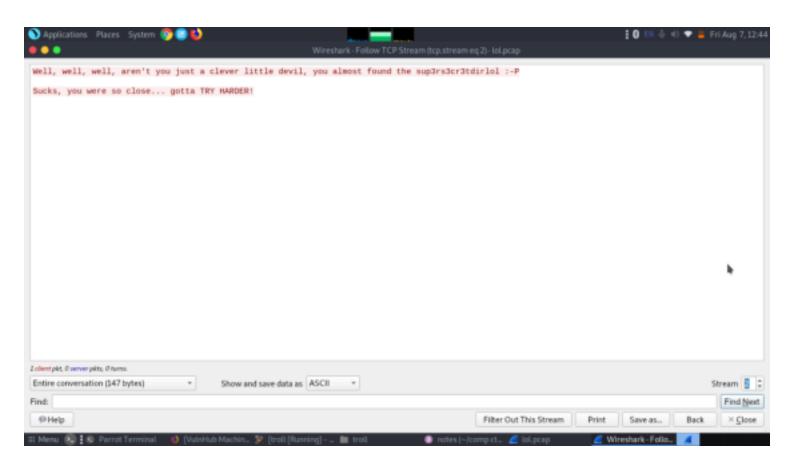
we got a file which is in pcap format. So this file has to be run through wirshark. May be there will be some hidden messages passing through the traffic let's analyse it through wireshark



The packets didn't had any susplcious traffic passing by. So now we went to see the tcp stream were the data could be read in human readable form.



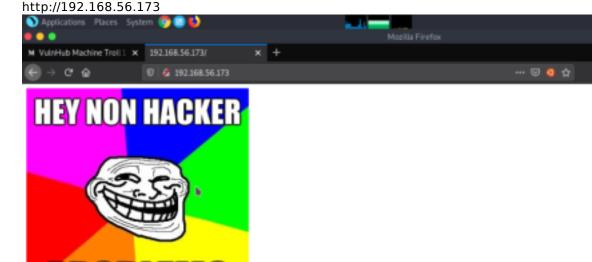
Great now from the tcp stream we found there is a file names secret_stuff.txt. We tried to figure out were this file would be located. Turned out be a rabbit hole so went on to analyze the tcpsream and from checking carefully got to know there is two streams. let's see the second stream



Great they gave us a hint sup3rs3cr3tdirlol which might be useful to us in further enumeration. Now let's explore port 80

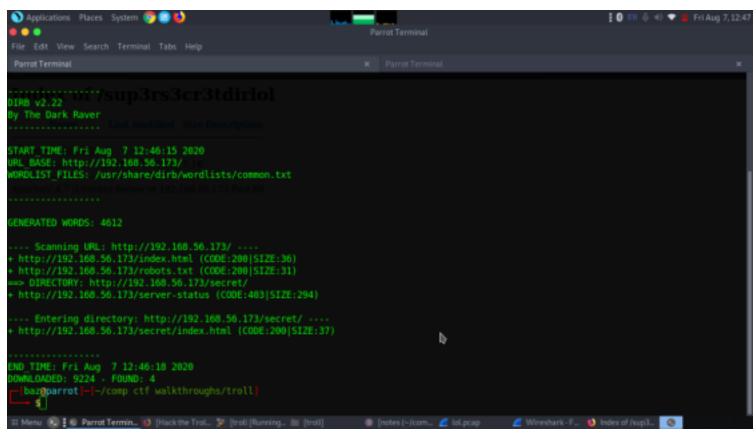
🖁 🛭 🕒 🕸 💎 🝍 Fri Aug 7, 12:38

M/ (1) 🛎 😇 😝 🤞 🏮



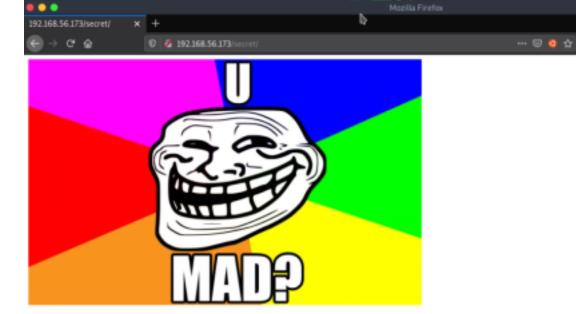
dirb http://192.168.56.173

The page just had a img file present. let's do a directory scan to find other directories present in the webpage



N/ (C) 😂 😇 😝 🤞 🏮

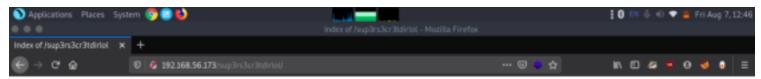
We got two files. From robots.txt it was mentioning of another directory named secret. let's check it .



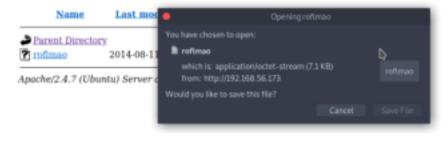
II Menu 🐼 🖁 🗵 (Parrot Termi... 🐞 (Hack the Trol... 👺 (troll (Running... 🛍 troll 💮 notes (-/comp... 💋 lol.pcap 💆 Wireshark-F.... 🐧 Mozilla Firefox

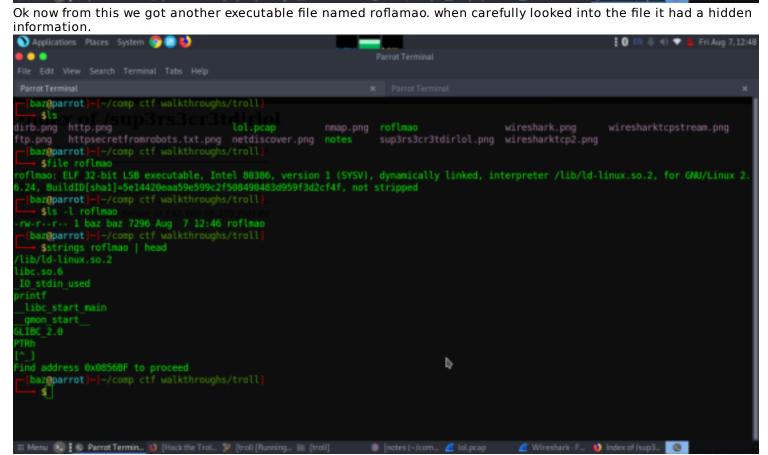
Another rabbit hole. This might be the reason the machine is named troll.

Now after checking out a lot came to know that we actually had previously got a information from wireshark let's try it.

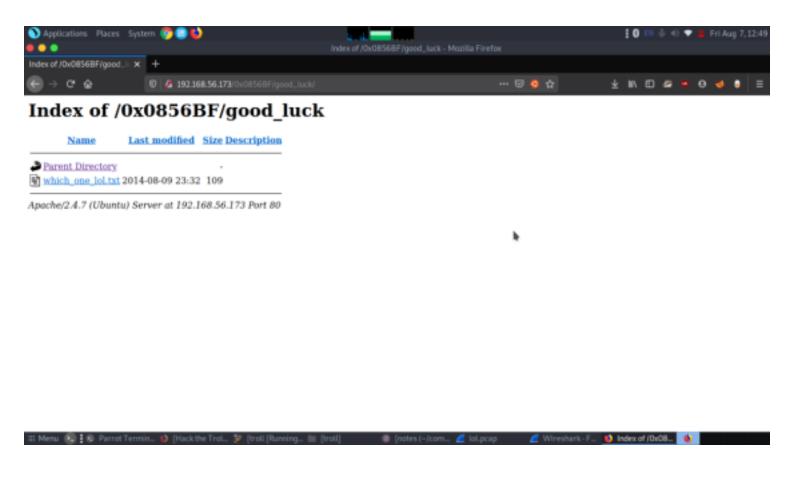


Index of /sup3rs3cr3tdirlol





It was mentioning of some address. And finally after some more enumeration understood this was a directory. Let's open and see the contents present.

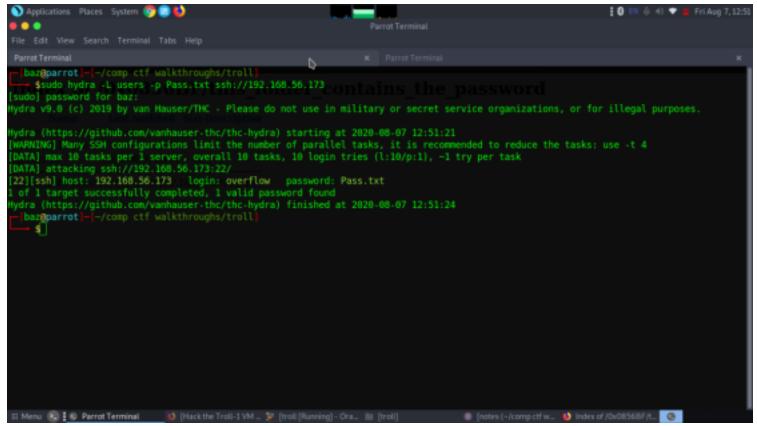


Exploitation

now we got two files one named Pass.txt which was actually empty so it might be the password. I opened both subdirectories and /good-luck looks interesting to me as it called a lol.txt file which contains a wordlist and might be this could be useful in conducting the brute force attack against ssh login. Also, the folder / this_folder_contains_the_password gave hint "Pass.txt" could be a possible password.

Then we copied lol.txt wordlist into a text file and saved as dict.txt for username (remove 5th line while pasting the content of lol.txt into dict.txt). Since we have username dictionary file and also well aware from password let's lunch brute-force attack for ssh login and for this you can use the following command. let's use hydra to bruteforce this wordlist.

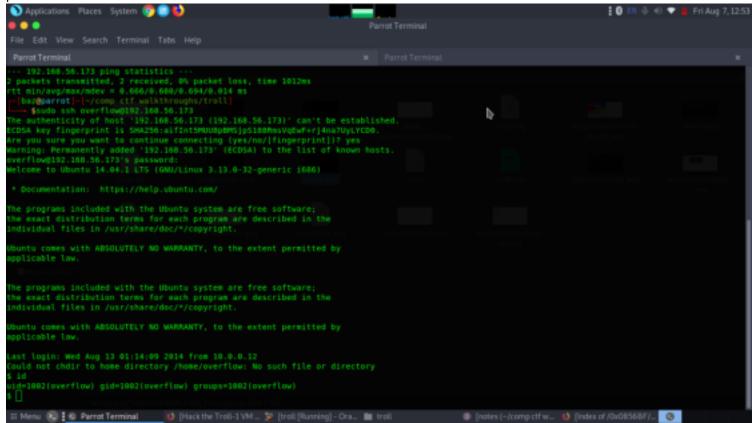
sudo hydra -L users -p Pass.txt ssh://192.168.56.173



Great!! Here is our possible ssh login credential overflow:Pass.txt

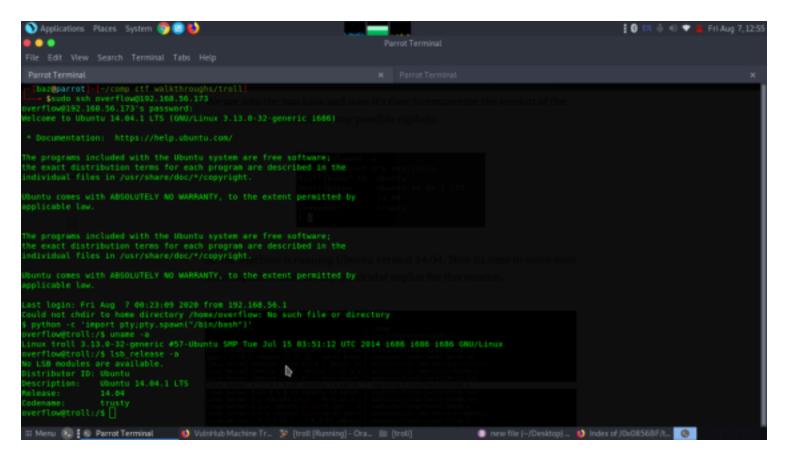
With help of above-extracted credential, we have made successful SSH login and spawned tty shell victim's machine. Now let's finished task quickly and for that, we need to escalated root privileges.....ssh overflow@192.168.56.173

pass-Pass.txt



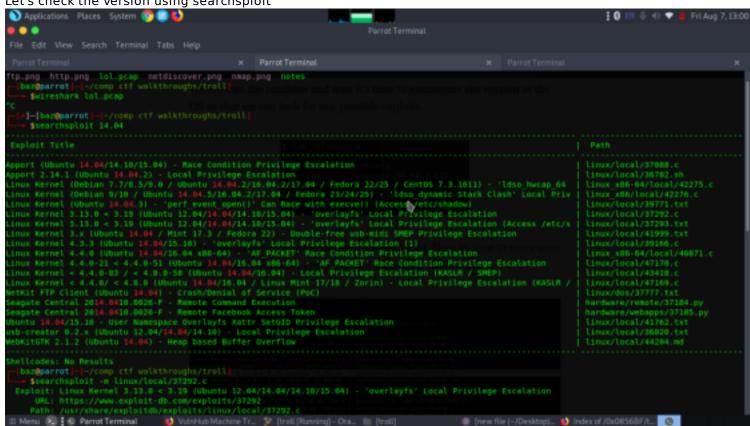
We are into the machine and now it's time to enumerate the version of the OS so that we can look for any possible exploits.

uname -a Isb release -a



now we came to know linux is running ubuntu and the version is 14.04 which was really vulnerable and had lot's of exploits.

Let's check the version using searchsploit



We had local privilege escalation from this version which is 37292.c

Let's use this to get into root

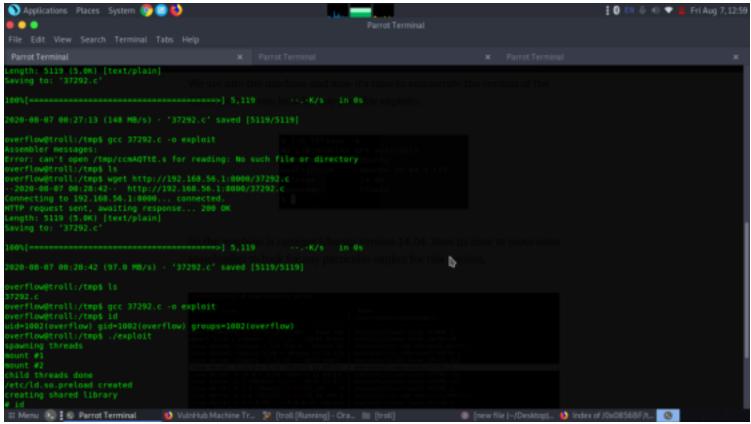
Now all we need is to host this file and to download it on the system via wget.

Then we will compile it using gcc compiler

gcc 37292.c -o exploit

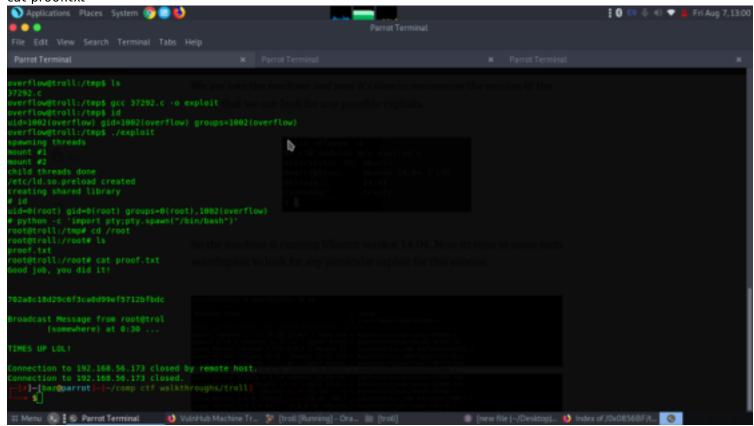
id

./exploit



Compiling the exploit using gcc compiler and then executing it to escalate privileges. Now we are into root shell. let's find the root flag.

id cd /root cat proof.txt



......Happy Hacking......Happy