

vulnhub: mhz_c1f:

May 10, 2020

Nmap scan report for 192.168.99.107

Host is up (0.00014s latency).

Not shown: 998 closed ports

PORT	STATE	SERVICE
22/tcp	open	ssh
80/tcp	open	http

crazyeights@kali:~\$ nmap -A -p- 192.168.99.107

Starting Nmap 7.80 (<https://nmap.org>) at 2020-05-10 21:32 EDT

Nmap scan report for 192.168.99.107

Host is up (0.0013s latency).

Not shown: 65533 closed ports

PORT	STATE	SERVICE	VERSION
22/tcp	open	ssh	OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
80/tcp	open	http	Apache httpd 2.4.29 ((Ubuntu))

| ssh-hostkey:

| 2048 38:d9:3f:98:15:9a:cc:3e:7a:44:8d:f9:4d:78:fe:2c (RSA)

| 256 89:4e:38:77:78:a4:c3:6d:dc:39:c4:00:f8:a5:67:ed (ECDSA)

|_ 256 7c:15:b9:18:fc:5c:75:aa:30:96:15:46:08:a9:83:fb (ED25519)

|_http-server-header: Apache/2.4.29 (Ubuntu)

|_http-title: Apache2 Ubuntu Default Page: It works

Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at <https://nmap.org/submit/> .

Nmap done: 1 IP address (1 host up) scanned in 7.95 seconds

crazyeights@kali:~\$

Enumerating the web server using skipfish:

crazyeights@kali:~\$ skipfish -o mhzctf -S

/usr/share/skipfish/dictionaries/minimal.wl http://192.168.99.107

Skipfish finds notes.txt:



Scanner version: 2.10b
Random seed: 0xb6eee353

Scan date: Sun May 10 22:23:22 2020
Total time: 0 hr 0 min 44 sec 382 ms

Problems with this scan? [Click here for advice.](#)

Crawl results - click to expand:

<http://192.168.99.107/>
Code: 200, length: 10918, declared: text/html, detected: application/xhtml+xml, charset: UTF-8 [[show trace +](#)]

Document type overview - click to expand:

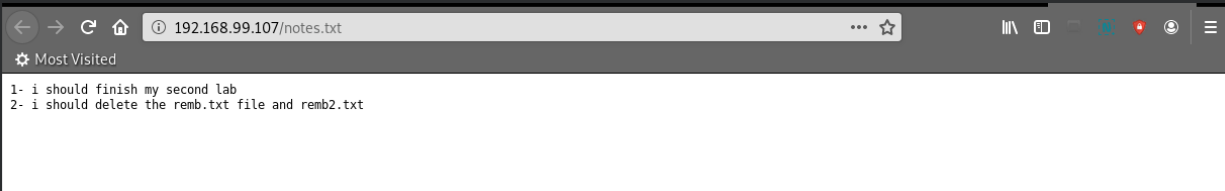
- application/xhtml+xml (2)
- image/gif (12)
- image/png (14)
- text/html (1)
- text/plain (1)
- text/xml (1)

Issue type overview - click to expand:

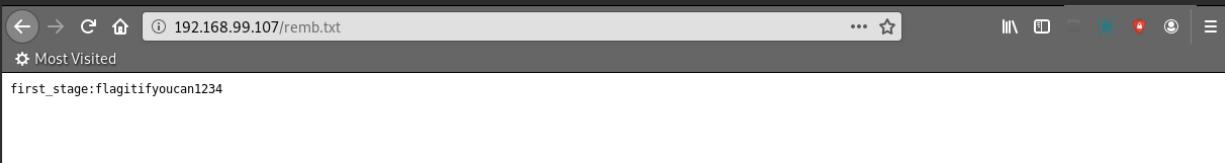
- Incorrect or missing charset (low risk)** (3)
 1. <http://192.168.99.107/icons/README> [[show trace +](#)]
 2. <http://192.168.99.107/icons/README.html> [[show trace +](#)]
 3. <http://192.168.99.107/notes.txt> [[show trace +](#)]
- Generic MIME used (low risk)** (1)
- Incorrect or missing MIME type (low risk)** (1)
- Hidden files / directories** (7)
- Resource not directly accessible** (2)
- New 404 signature seen** (1)
- New 'Server' header value seen** (1)

NOTE: 100 samples maximum per issue or document type.

Notes.txt contents:



Go to remb.txt:



Contents are credentials for ssh:

first_stage:flagitifyoucan1234

Login to SSH:

```
crazyeights@kali:~$ ssh first_stage@192.168.99.107
```

first_stage@192.168.99.107's password:

Welcome to Ubuntu 18.04.4 LTS (GNU/Linux 4.15.0-96-generic x86_64)

- * Documentation: <https://help.ubuntu.com>
- * Management: <https://landscape.canonical.com>
- * Support: <https://ubuntu.com/advantage>

System information as of Mon May 11 02:27:39 UTC 2020

System load:	0.32	Processes:	90
Usage of /:	40.3% of 9.78GB	Users logged in:	0
Memory usage:	23%	IP address for enp0s3:	192.168.99.107
Swap usage:	0%		

23 packages can be updated.
0 updates are security updates.

Last login: Fri Apr 24 18:18:07 2020 from 192.168.5.253

USER FLAG:

```
$ ls
user.txt
$ cat user.txt
HEEEEEY , you did it
that's amazing , good job man
```

so just keep it up and get the root bcz i hate low privileges ;)

#mhz_cyber

\$

Get ROOT FLAG:

```
$ cd home
$ ls
first_stage  mhz_c1f
$ cd mhz_c1f
$ ls
Paintings
$ cd Paintings
$ ls
'19th century American.jpeg'  'Russian beauty.jpeg'
'Frank McCarthy.jpeg'        'spinning the wool.jpeg'
$
```

Copy the images to localhost:

```
crazyeights@kali:~$ scp
first_stage@192.168.99.107: "/home/mhz_c1f/Paintings/spinning\ the\ wool.jpeg"
p4.jpeg
first_stage@192.168.99.107's password:
spinning the wool.jpeg                               100% 905KB 30.7MB/s 00:00
```

Use steghide to extract hidden file from "spinning the wool.jpeg"

```
crazyeights@kali:~/paintings$ steghide extract -sf p4.jpeg
Enter passphrase:
wrote extracted data to "remb2.txt".
crazyeights@kali:~/paintings$ ls
p1.jpeg p2.jpeg p3.jpeg p4.jpeg remb2.txt
```

```
crazyeights@kali:~/paintings$ cat remb2.txt
ooh , i know should delete this , but i cant' remember it
screw me
```

```
mhz_c1f:1@ec1f
crazyeights@kali:~/paintings$
```

Go back to ssh and login as mhz_c1f:

```
$ su - mhz_c1f
Password:
mhz_c1f@mhz_c1f:~$ ls
Paintings
mhz_c1f@mhz_c1f:~$ sudo -l
[sudo] password for mhz_c1f:
Matching Defaults entries for mhz_c1f on mhz_c1f:
    env_reset, mail_badpass,

secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin
\:/snap/bin
```

User mhz_c1f may run the following commands on mhz_c1f:

```
(ALL : ALL) ALL
```

```
mhz_c1f@mhz_c1f:~$ sudo su
root@mhz_c1f:/home/mhz_c1f# id
uid=0(root) gid=0(root) groups=0(root)
root@mhz_c1f:/home/mhz_c1f# cd /root
```

```
root@mhzc1f:~# ls
root@mhzc1f:~# ls -lai
total 32
524292 drwx----- 3 root root 4096 Apr 24 18:07 .
      2 drwxr-xr-x 24 root root 4096 Apr 13 17:05 ..
531719 -rw----- 1 root root   54 Apr 24 18:07 .bash_history
524306 -rw-r--r-- 1 root root 3106 Apr  9 2018 .bashrc
524307 -rw-r--r-- 1 root root  148 Aug 17 2015 .profile
534527 -rw-r--r-- 1 root root  124 Apr 24 18:07 .root.txt
530407 drwx----- 2 root root 4096 Apr 13 17:14 .ssh
534528 -rw----- 1 root root  833 Apr 24 18:07 .viminfo
GET ROOT FLAG:
root@mhzc1f:~# cat .root.txt
OwO HACKER MAN :D
```

Well done sir , you have successfully got the root flag.
I hope you enjoyed in this mission.

```
#mhzc1f
root@mhzc1f:~#
```

FIN.