S5/L3

SCANSIONE DEI SERVIZI CON NMAP

MACCHINA KALI: IP: 192.168.50.100

MACCHINA META: IP: 192.168.50.101

SCAN SYN (-sS):

```
П
                                           kali@kali: ~
                                                                            Q
                                                                                 ŧ
                                                                                      —(kali⊛kali)-[~]
$ <u>sudo</u> nmap -sS 192.168.50.101
[sudo] password for kali:
Starting Nmap 7.94SVN ( https://nmap.org ) at 2023-12-20 11:16 CET
Nmap scan report for 192.168.50.101
Host is up (0.000071s latency).
Not shown: 977 closed tcp ports (reset)
PORT
         STATE SERVICE
21/tcp
         open ftp
22/tcp open ssh
23/tcp
        open telnet
25/tcp
         open smtp
53/tcp
        open
              domain
80/tcp open http
111/tcp open rpcbind
139/tcp open netbios-ssn
445/tcp open microsoft-ds
512/tcp open exec
513/tcp open login
514/tcp open shell
1099/tcp open rmiregistry
1524/tcp open ingreslock
2049/tcp open nfs
2121/tcp open ccproxy-ftp
3306/tcp open mysql
5432/tcp open postgresql
5900/tcp open vnc
6000/tcp open X11
6667/tcp open irc
8009/tcp open ajp13
8180/tcp open unknown
MAC Address: 08:00:27:02:40:9F (Oracle VirtualBox virtual NIC)
```

SCAN FULL TCP (-sT):

```
Ξ
                                          kali@kali: ~
                                                                          Q
                                                                                   —(kali⊛kali)-[~]
_$ <u>sudo</u> nmap -sT 192.168.50.101
Starting Nmap 7.94SVN ( https://nmap.org ) at 2023-12-20 11:24 CET
Nmap scan report for 192.168.50.101
Host is up (0.00036s latency).
Not shown: 977 closed tcp ports (conn-refused)
PORT
        STATE SERVICE
21/tcp
        open ftp
22/tcp
        open ssh
23/tcp
        open telnet
25/tcp
        open smtp
53/tcp
        open
              domain
80/tcp
        open
              http
111/tcp open rpcbind
139/tcp open netbios-ssn
445/tcp open microsoft-ds
512/tcp open exec
513/tcp open login
514/tcp open shell
1099/tcp open rmiregistry
1524/tcp open
              ingreslock
2049/tcp open
              nfs
2121/tcp open
              ccproxy-ftp
3306/tcp open mysql
5432/tcp open postgresql
5900/tcp open vnc
6000/tcp open X11
6667/tcp open irc
8009/tcp open ajp13
8180/tcp open unknown
MAC Address: 08:00:27:02:40:9F (Oracle VirtualBox virtual NIC)
```

DIFFERENZE:

Nello screen dello scan SYN notiamo che nmap risponde al SYN/ACK del destinatario con un comando di reset (RST), non concludendo dunque il 3-WHS. Ci da comunque in output lo stato delle porte e i servizi in ascolto annessi.

Nello screen dello scan FULL TCP in teoria nmap dovrebbe chiudere il 3-WHS e creare quindi il canale di comunicazione con meta, ma notiamo come in risposta ci appaia "Conn. Refused", probabilmente il firewall di Meta meta ce lo impedisce.

VERSION DETECTION:

```
Ξ
    OS: Windows 7 Starter 7601 Service Pack 1 (Windows 7 Starter 6.1)
    OS CPE: cpe:/o:microsoft:windows_7::sp1
    Computer name: Windows
    NetBIOS computer name: WINDOWS\x00
    Workgroup: WORKGROUP\x00
|_ System time: 2023-12-20T11:42:37+01:00
OS detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 19.26 seconds
  —(kali⊛kali)-[~]
$ sudo nmap -sV 192.168.50.101
Starting Nmap 7.94SVN ( https://nmap.org ) at 2023-12-20 11:49 CET
Nmap scan report for 192.168.50.101
Host is up (0.000072s latency).
Not shown: 977 closed tcp ports (reset)
        STATE SERVICE
PORT
                            VERSION
21/tcp
         open ftp
                             vsftpd 2.3.4
         open ssh
22/tcp
                            OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp
         open telnet?
         open smtp?
open domain
25/tcp
53/tcp
                        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?
514/tcp open shell?
1099/tcp open java-rmi
                            GNU Classpath grmiregistry
1524/tcp open bindshell
2049/tcp open nfs
                            Metasploitable root shell
                            2-4 (RPC #100003)
2121/tcp open ccproxy-ftp?
3306/tcp open mysql?
5432/tcp open postgresql
                            PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp open vnc
                             VNC (protocol 3.3)
                             (access denied)
6000/tcp open X11
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
MAC Address: 08:00:27:02:40:9F (Oracle VirtualBox virtual NIC)
Service Info: Host: 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 192.93 seconds
```

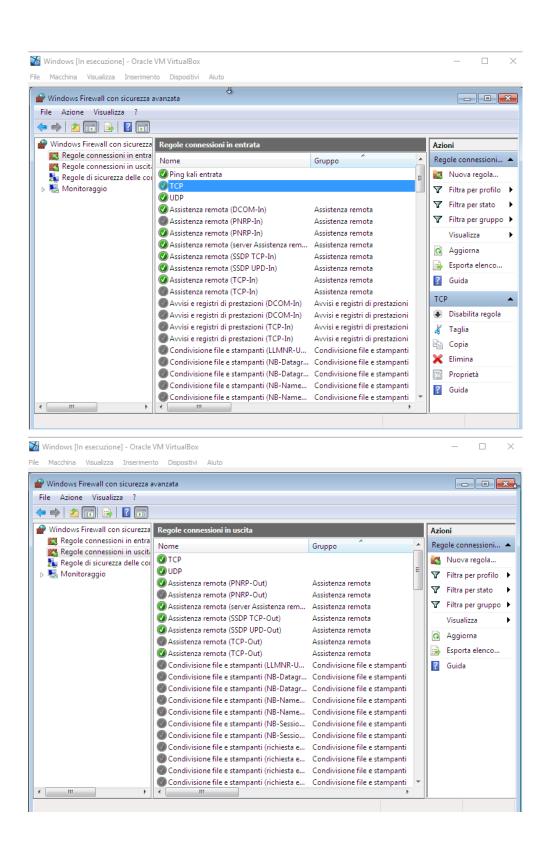
Qua in output abbiamo non soltanto lo stato delle porte e il servizio in ascolto, ma anche la corrispondente versione.

DISCOVERY OS KALI:

```
Q : 0 ×
  Ð
                                      kali@kali: ~
Starting Nmap 7.94SVN ( https://nmap.org ) at 2023-12-20 11:36 CET
Stats: 0:00:13 elapsed; 0 hosts completed (0 up), 1 undergoing ARP Ping Scan
Parallel DNS resolution of 1 host. Timing: About 0.00% done
Nmap scan report for 192.168.50.101
Host is up (0.00037s latency).
Not shown: 977 closed tcp ports (reset)
PORT
       STATE SERVICE
21/tcp
        open ftp
22/tcp
       open ssh
23/tcp
       open telnet
       open smtp
25/tcp
53/tcp open domain
80/tcp open http
111/tcp open rpcbind
139/tcp open netbios-ssn
445/tcp open microsoft-ds
512/tcp open exec
513/tcp open login
514/tcp open shell
1099/tcp open rmiregistry
1524/tcp open ingreslock
2049/tcp open nfs
2121/tcp open ccproxy-ftp
3306/tcp open mysql
5432/tcp open postgresql
5900/tcp open vnc
6000/tcp open X11
6667/tcp open irc
8009/tcp open ajp13
8180/tcp open unknown
MAC Address: 08:00:27:02:40:9F (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6
OS details: Linux 2.6.9 - 2.6.33
Network Distance: 1 hop
Host script results:
| smb-os-discovery:
   OS: Unix (Samba 3.0.20-Debian)
   Computer name: metasploitable
   NetBIOS computer name:
   Domain name: localdomain
    FQDN: metasploitable.localdomain
   System time: 2023-12-20T05:36:34-05:00
```

DISCOVERY OS WINDOWS7:

Inizialmente non riusciamo ad accertarcene poichè le comunicazioni TCP/UDP in Windows non sono abilitate, ottenendo come risultato dello scan un errore. Quindi le abilitiamo in entrate ed in uscita.



Ora possiamo procedere col nostro comando.

```
Device type: specialized/NDTP phone|general purposs|phone
Numbers | Allian-Brodley meledded, Action embedded, Microsoft Bindows 718|Phone|Devicity, Palmmicro embedded, Whenre Player
Not effect; epe://billen-brodley.nicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicrosoft.windows_per/comicroso
```