

# RISULTATI SCANSIONI CON NMAP

## METASPLOITABLE

### OS FINGERPRINT

OS CPE: cpe:/o:linux:linux\_kernel:2.6

OS details: Linux 2.6.9 - 2.6.33

### SYN SCAN

Starting Nmap 7.94SVN ( <https://nmap.org> ) at 2024-12-03 14:15 CET

Nmap scan report for 192.168.50.101

Host is up (0.00095s latency).

Not shown: 977 closed tcp ports (reset)

PORT	STATE	SERVICE
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21/tcp	open	ftp
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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
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512/tcp	open	exec
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513/tcp	open	login
---------	------	-------

514/tcp	open	shell
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1099/tcp	open	rmiregistry
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1524/tcp	open	ingreslock
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2049/tcp	open	nfs
----------	------	-----

2121/tcp	open	ccproxy-ftp
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3306/tcp	open	mysql
----------	------	-------

5432/tcp	open	postgresql
----------	------	------------

5900/tcp	open	vnc
----------	------	-----

6000/tcp	open	X11
----------	------	-----

6667/tcp	open	irc
----------	------	-----

8009/tcp	open	ajp13
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8180/tcp	open	unknown
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MAC Address: 08:00:27:1F:1E:3B (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 13.31 seconds

### TCP CONNECT SCAN

Starting Nmap 7.94SVN ( <https://nmap.org> ) at 2024-12-03 14:17 CET

Nmap scan report for 192.168.50.101

Host is up (0.00045s 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: 08:00:27:1F:1E:3B (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 13.28 seconds

## DIFFERENZE TRA TCP CONNECT SCAN E SYN SCAN

Scannando la macchina Metasploitable con i due tipi di scan a livello di terminale non si notano grandi differenze, entrambi danno come risultati le porte aperte e i vari servizi associati.

A livello teorico però le principali differenze tra i due tipi di scan sono che il TCP Connect è una scansione più accurata che fa un completo three-way-handshake ed è quindi un po' più lenta e meno stealth.

Mentre il Syn Scan è più veloce e più stealth, ma a differenza del TCP Connect scan richiede i privilegi di root.

## VERSION DETECTION

Starting Nmap 7.94SVN ( <https://nmap.org> ) at 2024-12-03 14:19 CET

Nmap scan report for 192.168.50.101

Host is up (0.00081s 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 rexecd
513/tcp	open	login	
514/tcp	open	shell	Netkit rshd
1099/tcp	open	java-rmi	GNU Classpath gmmiregistry
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	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/> .  
Nmap done: 1 IP address (1 host up) scanned in 25.38 seconds

## WINDOWS XP

### OS FINGERPRINT

Starting Nmap 7.94SVN ( <https://nmap.org> ) at 2024-12-03 14:23 CET  
Nmap scan report for 192.168.50.102  
Host is up (0.00055s latency).  
Not shown: 998 filtered tcp ports (no-response)  
PORT STATE SERVICE  
139/tcp open netbios-ssn  
445/tcp open microsoft-ds  
MAC Address: 08:00:27:5C:8D:1C (Oracle VirtualBox virtual NIC)  
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port  
Aggressive OS guesses: Microsoft Windows 2000 SP3/SP4 or Windows XP SP1/SP2 (97%), Microsoft Windows XP SP2 or SP3 (97%), Microsoft Windows 2000 SP0 - SP4 or Windows XP SP0 - SP1 (95%), Microsoft Windows Server 2003 SP1 or SP2 (95%),

Microsoft Windows 2000 SP4 or Windows XP SP1a (94%), Microsoft Windows 2000 SP4 (93%), Microsoft Windows XP SP3 (93%), Microsoft Windows XP Professional SP2 or Windows Server 2003 (93%), Microsoft Windows XP SP1 (93%), Microsoft Windows 2000 Server SP3 or SP4 (92%)

No exact OS matches for host (test conditions non-ideal).

Network Distance: 1 hop

OS detection performed. Please report any incorrect results at <https://nmap.org/submit/> .

Nmap done: 1 IP address (1 host up) scanned in 21.73 seconds

## REPORT FINALE

### IP:

1. **METASPLOITABLE:** 192.168.50.101
2. **WINDOWS XP:** 192.168.50.102

### SISTEMA OPERATIVO:

1. **METASPLOITABLE:** OS CPE: cpe:/o:linux:linux\_kernel:2.6  
OS details: Linux 2.6.9 - 2.6.33
2. **WINDOWS:** Aggressive OS guesses: Microsoft Windows 2000 SP3/SP4 or Windows XP SP1/SP2 (97%), Microsoft Windows XP SP2 or SP3 (97%), Microsoft Windows 2000 SP0 - SP4 or Windows XP SP0 - SP1 (95%), Microsoft Windows Server 2003 SP1 or SP2 (95%), Microsoft Windows 2000 SP4 or Windows XP SP1a (94%), Microsoft Windows 2000 SP4 (93%), Microsoft Windows XP SP3 (93%), Microsoft Windows XP Professional SP2 or Windows Server 2003 (93%), Microsoft Windows XP SP1 (93%), Microsoft Windows 2000 Server SP3 or SP4 (92%)

### PORTE APERTE E SERVIZI CON VERSIONE:

#### 1. METASPLOITABLE:

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 rexecd
513/tcp	open	login	

514/tcp	open	shell	Netkit rshd
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	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

## 2. WINDOWS XP:

PORT	STATE	SERVICE	VERSION
139/tcp	open	netbios-ssn	Microsoft Windows netbios-ssn
445/tcp	open	microsoft-ds	Microsoft Windows XP microsoft-ds

## DIFFERENZE TRA SWITCH -g E -f

L'opzione **-g** di Nmap permette di specificare una porta sorgente personalizzata per i pacchetti inviati durante la scansione.

Normalmente, Nmap sceglie una porta casuale superiore a 1024 come porta sorgente. Tuttavia, con **-g**, possiamo impostare una porta fissa.

### Funzionamento:

Nmap invierà i pacchetti SYN usando la porta scelta come porta sorgente.

L'opzione **-f** suddivide i pacchetti TCP in più frammenti di piccole dimensioni.

Questo rende più difficile per firewall e IDS analizzare e rilevare la scansione.

