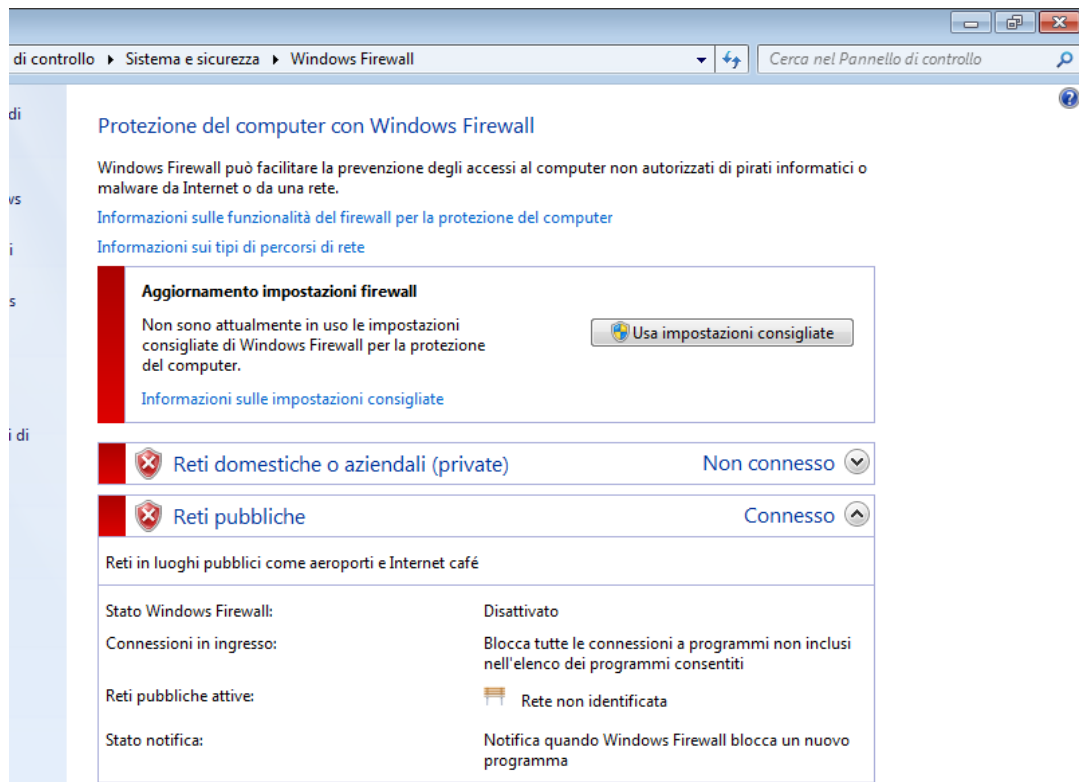


Scansione con Firewall disattivato



```
(kali@kali)~$ nmap -sV 192.168.50.103 -oN report_1
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-09-17 19:10 CEST
Nmap scan report for 192.168.50.103
Host is up (0.00054s latency).
Not shown: 987 closed tcp ports (conn-refused)
PORT      STATE SERVICE      VERSION
23/tcp    open  telnet       Microsoft Windows XP telnetd
135/tcp   open  msrpc        Microsoft Windows RPC
139/tcp   open  netbios-ssn  Microsoft Windows netbios-ssn
445/tcp   open  microsoft-ds Microsoft Windows 7 - 10 microsoft-ds (workgroup: WORKGROUP)
554/tcp   open  rtsp?
2869/tcp  open  http         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
10243/tcp open  http         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
49152/tcp open  msrpc        Microsoft Windows RPC
49153/tcp open  msrpc        Microsoft Windows RPC
49154/tcp open  msrpc        Microsoft Windows RPC
49155/tcp open  msrpc        Microsoft Windows RPC
49156/tcp open  msrpc        Microsoft Windows RPC
49157/tcp open  msrpc        Microsoft Windows RPC
Service Info: Host: WINDOWS7; OSs: Windows XP, Windows; CPE: cpe:/o:microsoft:windows_xp, cpe:/o:microsoft:windows

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 140.31 seconds
```

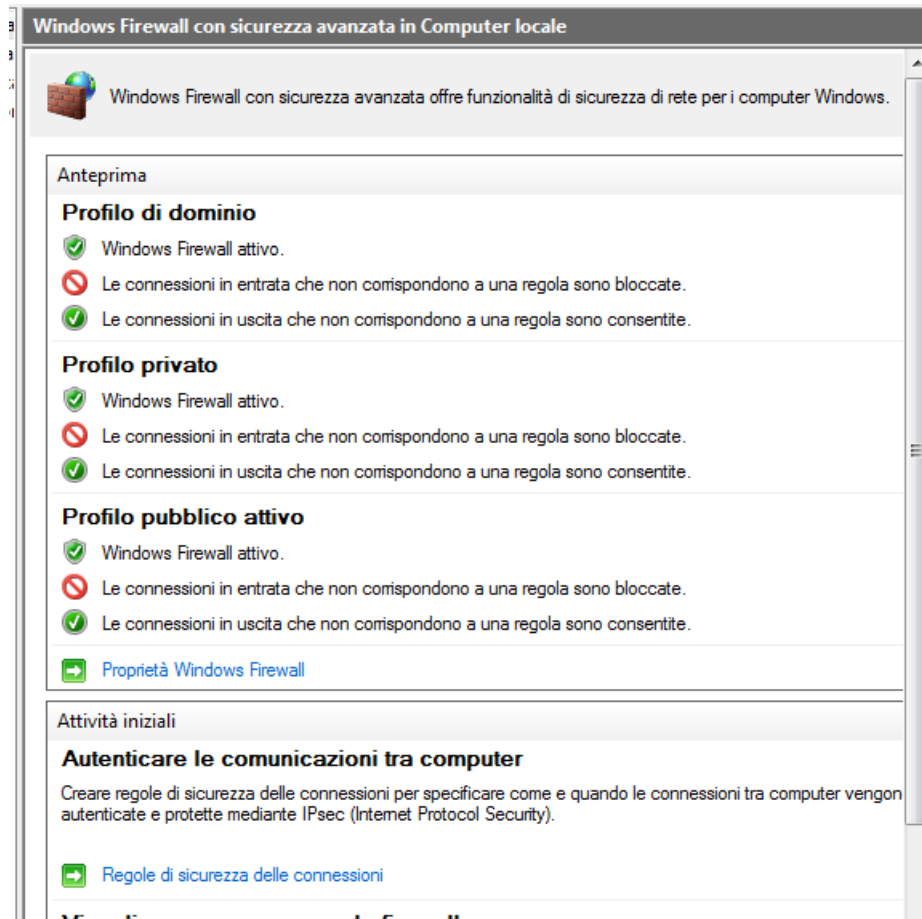
```
Shell No. 1
File Actions Edit View Help
File Edit Options Buffers Tools Help
# Nmap 7.94SVN scan initiated Tue Sep 17 14:56:45 2024 as: nmap -sV -oN report_1 192.168.50.103
Nmap scan report for 192.168.50.103
Host is up (0.00024s latency).
Not shown: 987 closed tcp ports (reset)
PORT      STATE SERVICE      VERSION
23/tcp    open  telnet       Microsoft Windows XP telnetd
135/tcp   open  msrpc        Microsoft Windows RPC
139/tcp   open  netbios-ssn  Microsoft Windows netbios-ssn
445/tcp   open  microsoft-ds Microsoft Windows 7 - 10 microsoft-ds (workgroup: WORKGROUP)
554/tcp   open  rtsp?
2869/tcp  open  http         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
10243/tcp open  http         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
49152/tcp open  msrpc        Microsoft Windows RPC
49153/tcp open  msrpc        Microsoft Windows RPC
49154/tcp open  msrpc        Microsoft Windows RPC
49155/tcp open  msrpc        Microsoft Windows RPC
49156/tcp open  msrpc        Microsoft Windows RPC
49157/tcp open  msrpc        Microsoft Windows RPC
MAC Address: 08:00:27:16:10:14 (Oracle VirtualBox virtual NIC)
Service Info: Host: WINDOWS7; OSs: Windows XP, Windows; CPE: cpe:/o:microsoft:windows_xp, cpe:/o:microsoft:windows

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
# Nmap done at Tue Sep 17 14:59:05 2024 -- 1 IP address (1 host up) scanned in 139.71 seconds

-UU-:%%- F1 report_1 All L1 (Fundamental)
Note: file is write protected
```

Con il Firewall disabilitato, tutte le porte di rete aperte sui servizi attivi sulla macchina Windows erano direttamente visibili e accessibili da Nmap. Questa esposizione mette la macchina a rischio di attacchi, poiché gli aggressori possono sfruttare questi servizi non protetti.

Scansione con Firewall attivato e ping bloccato



```
(kali㉿kali)-[~]
$ nmap -sV 192.168.50.103 -oN report_4
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-09-17 19:06 CEST
Note: Host seems down. If it is really up, but blocking our ping probes, try -Pn
Nmap done: 1 IP address (0 hosts up) scanned in 3.11 seconds

(kali㉿kali)-[~]
$ nmap -sV 192.168.50.103 -oN report_5 -Pn
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-09-17 19:07 CEST
Nmap scan report for 192.168.50.103
Host is up (0.00094s latency).
Not shown: 996 filtered tcp ports (no-response)
PORT      STATE SERVICE      VERSION
23/tcp    open  telnet       Microsoft Windows XP telnetd
135/tcp   open  msrpc        Microsoft Windows RPC
139/tcp   open  netbios-ssn  Microsoft Windows netbios-ssn
445/tcp   open  microsoft-ds Microsoft Windows 7 - 10 microsoft-ds (workgroup: WORKGROUP)
Service Info: Host: WINDOWS7; OSs: Windows XP, Windows; CPE: cpe:/o:microsoft:windows_xp, cpe:/o:microsoft:windows

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 31.31 seconds
```

```
File Edit Options Buffers Tools Help
# Nmap 7.94SVN scan initiated Tue Sep 17 15:01:19 2024 as: nmap -sV -Pn -oN report_2 192.168.50.103
Nmap scan report for 192.168.50.103
Host is up (0.0013s latency).
Not shown: 996 filtered tcp ports (no-response)
PORT      STATE SERVICE      VERSION
23/tcp    open  telnet       Microsoft Windows XP telnetd
135/tcp   open  msrpc        Microsoft Windows RPC
139/tcp   open  netbios-ssn  Microsoft Windows netbios-ssn
445/tcp   open  microsoft-ds Microsoft Windows 7 - 10 microsoft-ds (workgroup: WORKGROUP)
MAC Address: 08:00:27:16:10:14 (Oracle VirtualBox virtual NIC)
Service Info: Host: WINDOWS7; OSs: Windows XP, Windows; CPE: cpe:/o:microsoft:windows_xp, cpe:/o:microsoft:windows

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
# Nmap done at Tue Sep 17 15:01:43 2024 -- 1 IP address (1 host up) scanned in 23.96 seconds
```

Differenze tra i report:

Nel primo report, con il Firewall disabilitato, Nmap ha rilevato un numero significativo di porte aperte, tra cui diversi servizi come HTTP sulla porta 2869/tcp e diverse porte associate a MSRPC, comprese le porte da 49152 a 49157. Questo indica che la macchina era molto esposta e vulnerabile, mostrando un totale di 18 porte aperte e accessibili dall'esterno.

Nel secondo report, invece, con il Firewall attivato e il traffico ICMP bloccato, Nmap ha rilevato solo 4 porte aperte: il servizio Telnet sulla porta 23/tcp, MSRPC sulla porta 135/tcp, NetBIOS-SSN sulla porta 139/tcp e Microsoft-DS sulla porta 445/tcp. Il Firewall ha filtrato tutte le altre porte e ha impedito l'accesso agli altri servizi che erano stati rilevati nella prima scansione.

Questo dimostra chiaramente l'efficacia del Firewall nel proteggere la macchina, riducendo drasticamente la superficie di attacco e limitando la visibilità dei servizi attivi. Il confronto tra i due report mette in evidenza come l'attivazione del Firewall riduca il numero di porte esposte, proteggendo così la rete da potenziali attacchi esterni.