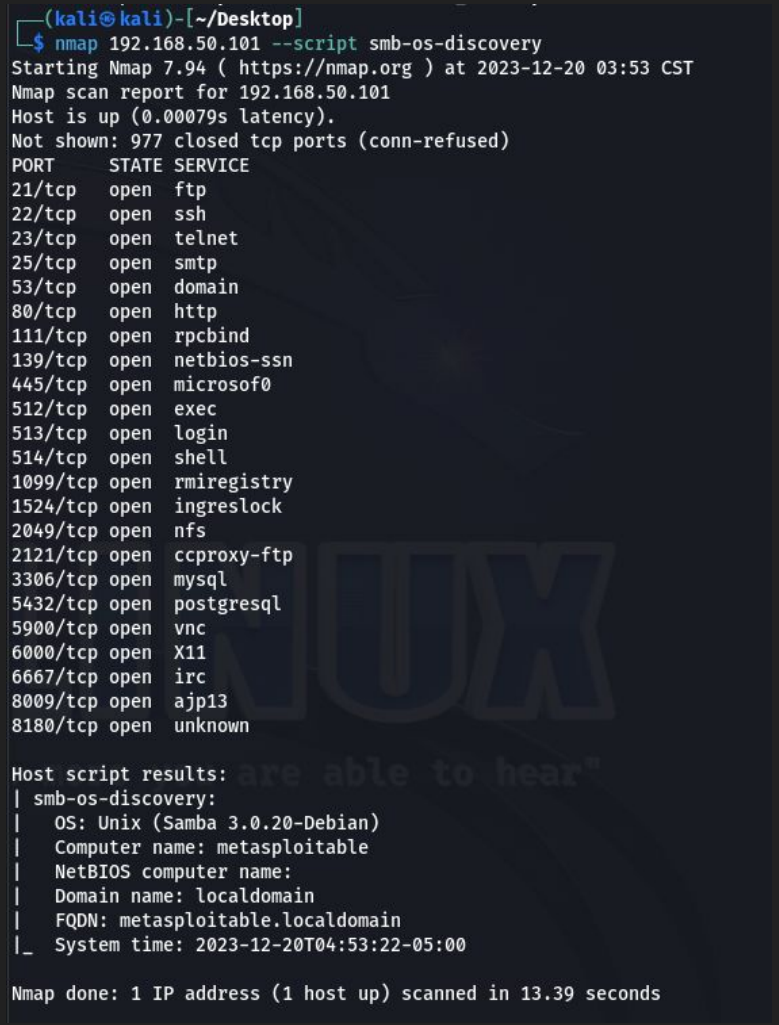
Scansioni con Nmap



Porte aperte e SO Metasploitable

disponendo di un basso livello di sicurezza Nmap riesce a fare una scansione completa di tutte le porte e ci mostra quali sono aperte.

In basso si possono notare info riguardo OS

Scansione SYN e scansione TCP

```
┌──(kali㉿kali)-[~]
└─$ nmap 192.168.50.101
Starting Nmap 7.94 ( https://nmap.org ) at 2023-12-20 04:24 CST
Nmap scan report for 192.168.50.101
Host is up (0.00057s 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

Nmap done: 1 IP address (1 host up) scanned in 13.20 seconds

┌──(kali㉿kali)-[~]
└─$
```

```
┌──(kali㉿kali)-[~/Desktop]
└─$ nmap -sT 192.168.50.101
Starting Nmap 7.94 ( https://nmap.org ) at 2023-12-20 04:24 CST
Nmap scan report for 192.168.50.101
Host is up (0.0014s 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

Nmap done: 1 IP address (1 host up) scanned in 13.29 seconds

┌──(kali㉿kali)-[~/Desktop]
└─$
```

Sembrerebbe che la scansione SYN sia più lenta e quindi meno aggressiva

Servizi attivi e Versione

```
┌──(kali㉿kali)-[~]
└─$ nmap -sV 192.168.50.101
Starting Nmap 7.94 ( https://nmap.org ) at 2023-12-20 03:48 CST
Nmap scan report for 192.168.50.101
Host is up (0.00053s 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 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  unknown
Service Info: Hosts:  metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_ke
rnel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 185.71 seconds
```

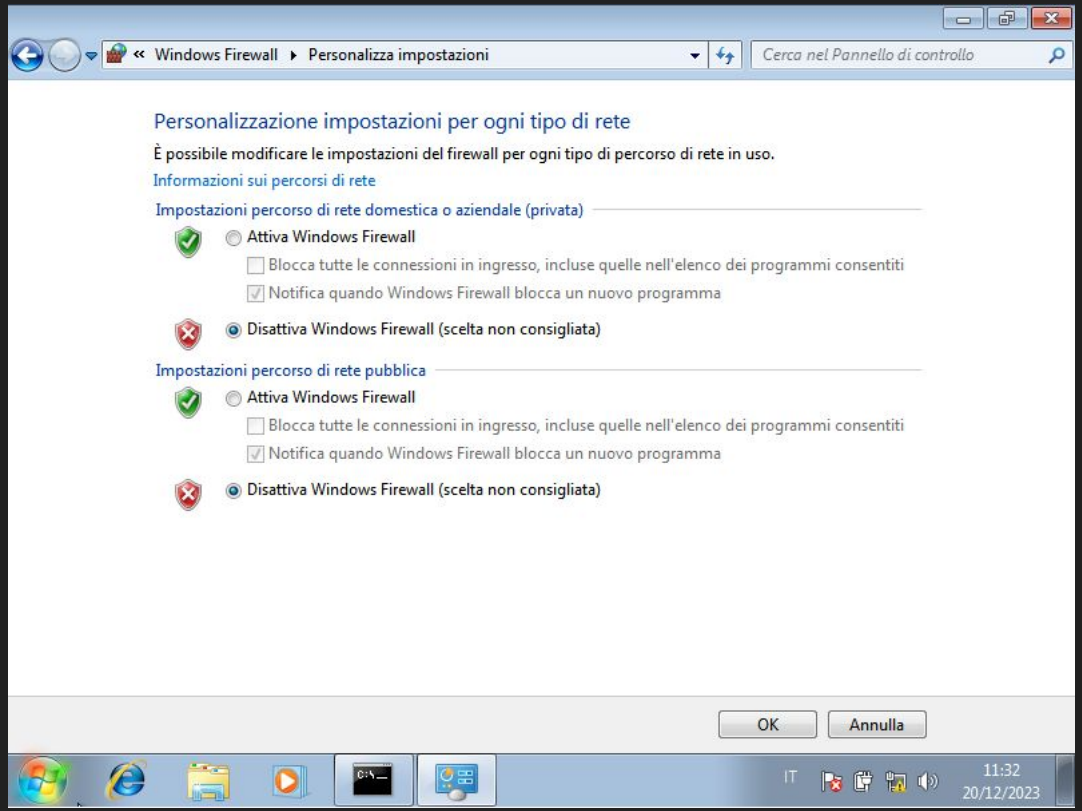
Porte filtrate Windows

```
┌──(kali㉿kali)-[~]
└─$ nmap -Pn 192.168.32.101 --script smb-os-discovery
Starting Nmap 7.94 ( https://nmap.org ) at 2023-12-20 04:08 CST
Nmap scan report for 192.168.32.101
Host is up.
All 1000 scanned ports on 192.168.32.101 are in ignored states.
Not shown: 1000 filtered tcp ports (no-response)

Nmap done: 1 IP address (1 host up) scanned in 214.53 seconds
```

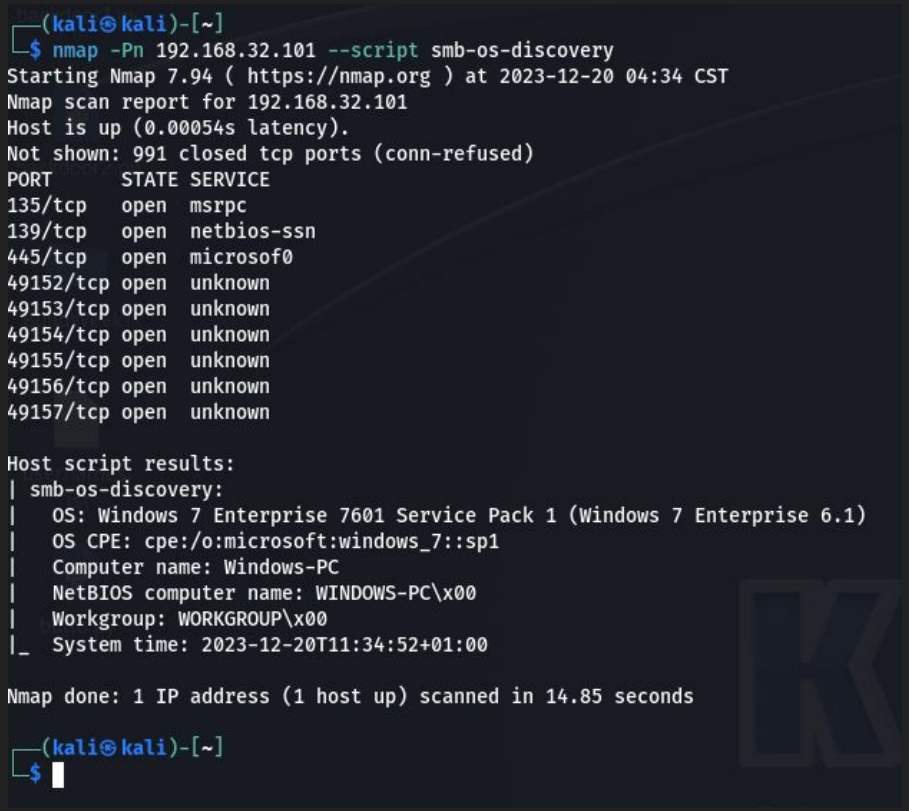
Disponendo di un livello di sicurezza più elevato i firewall di windows bloccano sia il ping sia lo scan delle porte; per ovviare al primo problema basta aggiungere -Pn nel comando della shell, nel secondo invece bisogna disattivare i firewall direttamente da windows

Firewall disattivati



Andando su Pannello di Controllo>Windows Firewall>Personalizza impostazioni è possibile disattivare i firewall per reti private e pubbliche

Porte aperte e SO Windows



Ecco ora rese visibili le porte aperte di windows con relativo sistema operativo in basso.

Nonostante le modifiche sulla sicurezza alcune delle porte restano chiuse o filtrate (ad esempio la porta 80)