



Daily projects Week 9



S9/L1 - Firewall to protect services



Daily projects

S9/L1 - Firewall to protect services

Try to use NMAP tool to prove that firewall can hide ports when an attacker try to find opened ports and view the versions of the services are running



Machine info

Attacker info - Kali Linux

```
(root@tiger)-[/home/tiger]
# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.240.100 netmask 255.255.255.0 broadcast 192.168.240.255
    inet6 fe80::a00:27ff:fe4c:2f40 prefixlen 64 scopeid 0x20<link>
    inet6 fd17:625c:f037:a832:a00:27ff:fe4c:2f40 prefixlen 64 scopeid 0x0<global>
    ether 08:00:27:4c:2f:40 txqueuelen 1000 (Ethernet)
    RX packets 1034 bytes 63081 (61.6 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 5084 bytes 336039 (328.1 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 19 bytes 1860 (1.8 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 19 bytes 1860 (1.8 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Target info - Windows XP

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Versione 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>ipconfig

Configurazione IP di Windows

Scheda Ethernet Connessione alla rete locale (LAN):

    Suffisso DNS specifico per connessione:
    Indirizzo IP. . . . . : 192.168.240.150
    Subnet mask . . . . . : 255.255.255.0
    Gateway predefinito . . . . . : 192.168.240.1

C:\Documents and Settings\Administrator>
```


NMAP tool report

Run an NMAP from Kali to Windows XP without Firewall.

We can see some opened ports and services running

```
(root@tiger)-[/home/tiger]
# nmap -sV 192.168.240.150
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-03-18 11:09 GMT
Nmap scan report for 192.168.240.150
Host is up (0.00010s latency).
Not shown: 997 closed tcp ports (reset)
PORT      STATE SERVICE        VERSION
135/tcp   open  msrpc          Microsoft Windows RPC
139/tcp   open  netbios-ssn    Microsoft Windows netbios-ssn
445/tcp   open  microsoft-ds   Microsoft Windows XP microsoft-ds
MAC Address: 08:00:27:84:81:7E (Oracle VirtualBox virtual NIC)
Service Info: OSs: Windows, Windows XP; CPE: cpe:/o:microsoft:windows, cpe:/o:microsoft:windows_xp

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 20.83 seconds
```





NMAP tool report

Run an NMAP from Kali to Windows XP without Firewall.

In this case, the firewall is on and hide to scan a port that can contain a vulnerability version of service

```
(root@tiger)-[/home/tiger]
# nmap -sV 192.168.240.150
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-03-18 11:10 GMT
Nmap scan report for 192.168.240.150
Host is up (0.00021s latency).
All 1000 scanned ports on 192.168.240.150 are in ignored states.
Not shown: 1000 filtered tcp ports (no-response)
MAC Address: 08:00:27:84:81:7E (Oracle VirtualBox virtual NIC)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 37.60 seconds
```

