W11D1 pratica 2

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W11D1 - Pratica (2) PDF

EsercizioScansione dei servizi

Traccia: Tecniche di scansione con Nmap
Si richiede allo studente di effettuare le seguenti scansioni sul target Windows 7 :
 OS fingerprint Syn Scan Version detection
Modificate le impostazioni di rete delle macchine virtuali per fare in modo che i due target siano sulla stessa rete. A valle delle scansioni, per entrambi gli IP, è prevista la produzione di un report contenente le seguenti info (dove disponibili):
□ IP
□ Sistema Operativo
□ Porte Aperte
Servizi in ascolto con versione
Descrizione dei servizi

https://www.poftut.com/nmap-output/

nmap -oN report1 IP

Quesito extra (al completamento dei quesiti sopra):

Os fingerprint

Syn scan

```
(kali® kali)=[~]
$ sudo nmap -sS 192.168.1.86
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-21 19:56 CET
Nmap scan report for dga-PC.homenet.telecomitalia.it (192.168.1.86)
Host is up (0.0023s latency).
Not shown: 989 closed tcp ports (reset)
PORT STATE SERVICE
135/tcp open msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds
2869/tcp open icslap
5357/tcp open wsdapi
49152/tcp open unknown
49153/tcp open unknown
49154/tcp open unknown
49154/tcp open unknown
49157/tcp open unknown
49157/tcp open unknown
49157/tcp open unknown
MAC Address: 08:00:27:0E:C4:EA (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 1.60 seconds
```

Version detection

```
sudo nmap -sV 192.168.1.86
Starting Nmap 7.94SVN (https://nmap.org) at 2024-02-21 19:57 CET
Stats: 0:00:54 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 45.45% done; ETC: 19:59 (0:01:04 remaining)
Nmap scan report for dga-PC.homenet.telecomitalia.it (192.168.1.86)
Host is up (0.0048s latency).
Not shown: 989 closed tcp ports (reset)
PORT
            STATE SERVICE
                                       VERSION
135/tcp
             open msrpc Microsoft Windows RPC
open netbios-ssn Microsoft Windows netbios-ssn
                                         Microsoft Windows RPC
139/tcp
445/tcp open micros
: WORKGROUP)
2869/tcp open http
5357/tcp open http
49152/tcp open msrpc
49154/tcp open msrpc
             open microsoft-ds Microsoft Windows 7 - 10 microsoft-ds (workgroup
                                         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
                                         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
                                         Microsoft Windows RPC
                                         Microsoft Windows RPC
                                         Microsoft Windows RPC
49155/tcp open msrpc
49156/tcp open msrpc
49157/tcp open msrpc
                                         Microsoft Windows RPC
                                         Microsoft Windows RPC
                                         Microsoft Windows RPC
MAC Address: 08:00:27:0E:C4:EA (Oracle VirtualBox virtual NIC)
Service Info: Host: DGA-PC; OS: Windows; CPE: cpe:/o:microsoft:windows
Service detection performed. Please report any incorrect results at https://n
map.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 59.29 seconds
```

Di seguito elenco le tre scansioni effettuate in precedenza ma con il firewall di windows attivo

Os fingerprint

```
·(kali⊕kali)-[
 $ sudo nmap -0 192.168.1.86
 Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-21 20:01 CET
 Nmap scan report for dga-PC.homenet.telecomitalia.it (192.168.1.86)
 Host is up (0.0020s latency).
 All 1000 scanned ports on dga-PC.homenet.telecomitalia.it (192.168.1.86) are
 in ignored states.
 Not shown: 1000 filtered tcp ports (no-response)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: specialized|VoIP phone|general purpose|phone
Running: Allen-Bradley embedded Atcompany
 Running: Allen-Bradley embedded, Atcom embedded, Microsoft Windows 7 8 Phone
 XP|2012, Palmmicro embedded, VMware Player
 OS CPE: cpe:/h:allen-bradley:micrologix_1100 cpe:/h:atcom:at-320 cpe:/o:micro
 soft:windows_7 cpe:/o:microsoft:windows_8 cpe:/o:microsoft:windows cpe:/o:mic
 rosoft:windows_xp::sp3 cpe:/o:microsoft:windows_server_2012 cpe:/a:vmware:pla
 OS details: Allen Bradley MicroLogix 1100 PLC, Atcom AT-320 VoIP phone, Micro
 soft Windows Embedded Standard 7, Microsoft Windows 8.1 Update 1, Microsoft Windows Phone 7.5 or 8.0, Microsoft Windows XP SP3 or Windows 7 or Windows Ser
 ver 2012, Palmmicro AR1688 VoIP module, VMware Player virtual NAT device
 Network Distance: 1 hop
 OS detection performed. Please report any incorrect results at https://nmap.o
 rg/submit/
Nmap done: 1 IP address (1 host up) scanned in 22.20 seconds
```

Syn scan

```
(kali@ kali)-[~]
$ sudo nmap -sS 192.168.1.86
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-21 20:04 CET
Nmap scan report for dga-PC.homenet.telecomitalia.it (192.168.1.86)
Host is up (0.0015s latency).
All 1000 scanned ports on dga-PC.homenet.telecomitalia.it (192.168.1.86) are
in ignored states.
Not shown: 1000 filtered tcp ports (no-response)
MAC Address: 08:00:27:0E:C4:EA (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 21.52 seconds
```

Version detection

```
(kali® kali)-[~]
$ sudo nmap -sV 192.168.1.86
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-21 20:05 CET
Nmap scan report for dga-PC.homenet.telecomitalia.it (192.168.1.86)
Host is up (0.0010s latency).
All 1000 scanned ports on dga-PC.homenet.telecomitalia.it (192.168.1.86) are
in ignored states.
Not shown: 1000 filtered tcp ports (no-response)
MAC Address: 08:00:27:0E:C4:EA (Oracle VirtualBox virtual NIC)
Service detection performed. Please report any incorrect results at https://n
map.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 21.72 seconds
```

Per l'esecuzione dell'esercizio sono stati assegnati degli IP in DHCP e le schede di rete delle macchine sono state impostate in brigde; alla macchina Kali linux è stato assegnato l'indirizzo 192.168.1.100 mentre alla macchina Windows 7 è stato assegnato l'IP 192.168.1.86.

Dal comando OS fingerprint <sudo nano -O 192.168.1.86> si nota che il sistema operativo è Windows 7|2008|8.1

Dalle scansioni effettuate col firewall spento vengono evidenziate le porte aperte; dalla scansione version detection si notano, oltre le porte aperte, anche le versioni di ogni servizio.

Per concludere, noto una grande differenza tra le scansioni effettuate col firewall attivo rispetto alle scansioni effettuate col firewall spento. Il firewall riesce a bloccare tutte le scansioni e non mi permette di conoscere alcuna informazione sulla macchina target Windows 7.