Task 3: NMap THM Room Writeup

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Task 2: Introduction



Task 3: Nmap Switches



How would you activate this setting? -A ✓ Correct Answer
Nmap offers five levels of "timing" template. These are essentially used to increase the speed your scan runs at. Be careful though: higher speeds are noisier, and can incur errors!
How would you set the timing template to level 5?
-T5 ✓ Correct Answer
We can also choose which port(s) to scan.
How would you tell nmap to only scan port 80?
-p 80 ✓ Correct Answer
How would you tell nmap to scan ports 1000-1500?
-p 1000-1500 Correct Answer
A very useful option that should not be ignored:
How would you tell nmap to scan <i>all</i> ports?
-p- ✓ Correct Answer
How would you activate a script from the nmap scripting library (lots more on this later!)?
script Correct Answer
How would you activate all of the scripts in the "vuln" category?
script=vuln ✓ Correct Answer

Task 4: Scan Types Overview

No answer needed

Task 5: TCP Connect Scans

Answer the questions below		
Which RFC defines the appropriate behaviour for the TCP protocol?		
RFC 9293	✓ Correct Answer	♥ Hint
If a port is closed, which flag should the server send back to indicate this?		
RST	✓ Correct Answer	

Task 6: SYN scans



Task 7: UDP scans



Task 8: NULL, FIN and XMAS



Task 9: ICMP network scanning



Task 10: NSE scripts overview



Task 11: Working with the NSE

What optional argument can the ftp-anon.nse script take?	
what optional argument can the Ttp-anon.nse script take:	
maxlist	✓ Correct Answer

Task 12: Searching for Scripts



Task 13: Firewall Evasion



Task 14: Practical

Does the target ip respond to ICMP echo (ping) requests (Y/N)?

```
root@ip-10-10-203-140:~# ping 10.10.207.221
PING 10.10.207.221 (10.10.207.221) 56(84) bytes of data.
```

Answer: N

2. Perform an Xmas scan on the first 999 ports of the target -- how many ports are shown to be open or filtered?

```
root@ip-10-10-203-140:~# nmap 10.10.207.221 -sX -p 0-998
Starting Nmap 7.80 ( https://nmap.org ) at 2025-01-18 17:16 GMT
Nmap scan report for 10.10.207.221
Host is up (0.000054s latency).
All 999 scanned ports on 10.10.207.221 are open|filtered
MAC Address: 02:B0:14:AE:47:EB (Unknown)
```

Answer: 999

3. There is a reason given for this -- what is it?

Note: The answer will be in your scan results. Think carefully about which switches to use -- and read the hint before asking for help!

```
root@ip-10-10-203-140:~# nmap 10.10.207.221 -sX -p 0-998 -vv

Starting Nmap 7.80 ( https://nmap.org ) at 2025-01-18 17:18 GMT

Initiating ARP Ping Scan at 17:18

Scanning 10.10.207.221 [1 port]

Completed ARP Ping Scan at 17:18, 0.04s elapsed (1 total hosts)

Initiating Parallel DNS resolution of 1 host. at 17:18

Completed Parallel DNS resolution of 1 host. at 17:18, 0.00s elapsed

Initiating XMAS Scan at 17:18

Scanning 10.10.207.221 [999 ports]

Completed XMAS Scan at 17:18, 21.09s elapsed (999 total ports)

Nmap scan report for 10.10.207.221

Host is up, received arp-response (0.000057s latency).

All 999 scanned ports on 10.10.207.221 are open|filtered because of 999 no-responses

MAC Address: 02:B0:14:AE:47:EB (Unknown)

Read data files from: /usr/bin/../share/nmap

Nmap done: 1 IP address (1 host up) scanned in 21.31 seconds

Raw packets sent: 1999 (79.948KB) | Rcvd: 1 (28B)
```

Answer: No Response

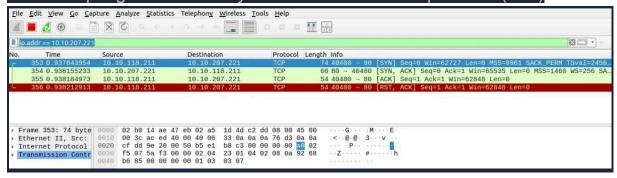
4. Perform a TCP SYN scan on the first 5000 ports of the target -- how many ports are shown to be open?

```
root@ip-10-10-203-140:~# nmap 10.10.207.221 -sS -p 0-4999 -vv
Starting Nmap 7.80 ( https://nmap.org ) at 2025-01-18 17:24 GMT
Initiating ARP Ping Scan at 17:24
Scanning 10.10.207.221 [1 port]
Completed ARP Ping Scan at 17:24, 0.04s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 17:24
Completed Parallel DNS resolution of 1 host. at 17:24, 0.00s elapsed
Initiating SYN Stealth Scan at 17:24
Scanning 10.10.207.221 [5000 ports]
Discovered open port 135/tcp on 10.10.207.221
Discovered open port 53/tcp on 10.10.207.221
Discovered open port 3389/tcp on 10.10.207.221
Discovered open port 21/tcp on 10.10.207.221
Discovered open port 80/tcp on 10.10.207.221
Completed SYN Stealth Scan at 17:25, 30.72s elapsed (5000 total ports)
Nmap scan report for 10.10.207.221
Host is up, received arp-response (0.00053s latency).
Scanned at 2025-01-18 17:24:31 GMT for 31s
Not shown: 4995 filtered ports
Reason: 4995 no-responses
PORT
        STATE SERVICE
                            REASON
21/tcp open ftp
                            syn-ack ttl 128
53/tcp open domain
                            syn-ack ttl 128
                            syn-ack ttl 128
80/tcp open http
135/tcp open msrpc
                            syn-ack ttl 128
3389/tcp open ms-wbt-server syn-ack ttl 128
MAC Address: 02:B0:14:AE:47:EB (Unknown)
Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 30.92 seconds
```

Raw packets sent: 15015 (660.644KB) | Rcvd: 30 (1.304KB)

Answer: 5

5. Open Wireshark (see Cryillic's Wireshark Room for instructions) and perform a TCP Connect scan against port 80 on the target, monitoring the results. Make sure you understand what's going on. Deploy the ftp-anon script against the box. Can Nmap login successfully to the FTP server on port 21? (Y/N)



Answer: Y