## Network Security Roll: MC233104

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## **Exercise 1: Nmap Practice**

In the following exercise, I have used these commands.

1. Version Check: nmap -v -A scanme.nmap.org

```
Starting Nmap 7.93 ( https://nmap.org ) at 2024-02-11 09:49 EST NSE: Loaded 155 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 09:49
Completed NSE at 09:49, 0.00s elapsed
Initiating NSE at 09:49
Completed NSE at 09:49, 0.00s elapsed
Initiating NSE at 09:49
Completed NSE at 09:49, 0.00s elapsed
Initiating Ping Scan at 09:49
Scanning scanme.nmap.org (45.33.32.156) [2 ports]
Completed Ping Scan at 09:49, 0.24s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 09:49
Completed Parallel DNS resolution of 1 host. at 09:49, 0.04s elapsed
Initiating Connect Scan at 09:49
Scanning scanme.nmap.org (45.33.32.156) [1000]
Discovered open port 22/tcp on 45.33.32.156
Discovered open port 80/tcp on 45.33.32.156
Discovered open port 31337/tcp on 45.33.32.156
Discovered open port 9929/tcp on 45.33.32.156
Completed Connect Scan at 09:49, 43.52s elapsed (1000 total ports)
Initiating Service scan at 09:49
Scanning 4 services on scanme.nmap.org (45.33.32.156)
Completed Service scan at 09:50, 6.58s elapsed (4 services on 1 host)
NSE: Script scanning 45.33.32.156.
Initiating NSE at 09:50
Completed NSE at 09:50, 16.25s elapsed
Initiating NSE at 09:50
Completed NSE at 09:50, 1.15s elapsed
Initiating NSE at 09:50
Completed NSE at 09:50, 0.00s elapsed
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.26s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 996 filtered tcp ports (no-response)
          STATE SERVICE VERSION
PORT
                                 OpenSSH 6.6.1p1 Ubuntu 2ubuntu2.13 (Ubuntu Linux; protocol 2.0)
22/tcp
            open ssh
  ssh-hostkey:
     1024 ac00a01a82ffcc5599dc672b34976b75 (DSA)
     2048 203d2d44622ab05a9db5b30514c2a6b2 (RSA)
    256 9602bb5e57541c4e452f564c4a24b257 (ECDSA)
    256 33fa910fe0e17b1f6d05a2b0f1544156 (ED25519)
80/tcp open http
                            Apache httpd 2.4.7 ((Ubuntu))
|_http-title: Go ahead and ScanMe!
 http-methods:
    Supported Methods: GET HEAD POST OPTIONS
|_http-favicon: Nmap Project
http-server-header: Apache/2.4.7 (Ubuntu)
9929/tcp open nping-echo Nping echo
31337/tcp open tcpwrapped
```

2. Scanning Website: nmap facebook.com

```
(kali® kali)-[~]
    nmap facebook.com
Starting Nmap 7.93 ( https://nmap.org ) at 2024-02-11 09:54 EST
Nmap scan report for facebook.com (157.240.235.35)
Host is up (0.060s latency).
Other addresses for facebook.com (not scanned): 2a03:2880:f10c:381:face:b00c:0:25de
rDNS record for 157.240.235.35: edge-star-mini-shv-04-sin6.facebook.com
Not shown: 998 filtered tcp ports (no-response)
PORT STATE SERVICE
80/tcp open http
443/tcp open https
Nmap done: 1 IP address (1 host up) scanned in 21.07 seconds
```

3. Host Discovery – Traceout: sudo nmap –traceout 51.23.48.15

```
—(kali@kali)-[~]
 sudo nmap —traceroute 51.23.48.15
Starting Nmap 7.93 ( https://nmap.org ) at 2024-02-11 09:57 EST
Stats: 0:00:07 elapsed; 0 hosts completed (1 up), 1 undergoing Traceroute
Parallel DNS resolution of 2 hosts. Timing: About 50.00% done; ETC: 09:57 (0:00:03 remaining)
Nmap scan report for 51.23.48.15
Host is up (0.010s latency).
All 1000 scanned ports on 51.23.48.15 are in ignored states.
Not shown: 1000 filtered tcp ports (no-response)
TRACEROUTE (using port 80/tcp)
HOP RTT ADDRESS
1 14.23 ms 10.0.2.2
2 14.24 ms 51.23.48.15
Nmap done: 1 IP address (1 host up) scanned in 11.47 seconds
  —(kali®kali)-[~]
```

4. Port Specification: nmap 51.23.48.15 -p443

```
(kali@ kali)-[~]
$ nmap 51.23.48.15 -p300
Starting Nmap 7.93 ( https://nmap.org ) at 2024-02-11 09:59 EST
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 3.06 seconds

(kali@ kali)-[~]
$ nmap 51.23.48.15 -p80
Starting Nmap 7.93 ( https://nmap.org ) at 2024-02-11 09:59 EST
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 3.04 seconds

(kali@ kali)-[~]
$ nmap 51.23.48.15 -p80 -Pn
Starting Nmap 7.93 ( https://nmap.org ) at 2024-02-11 09:59 EST
Nmap scan report for 51.23.48.15
Host is up.

PORT STATE SERVICE
80/tcp filtered http

Nmap done: 1 IP address (1 host up) scanned in 2.11 seconds

(kali@ kali)-[~]

(kali@ kali)-[~]
```

## **Exercise 2: Wireshirk Practice**

## Wifi Capture:

```
Welcome to Wireshark
Capture
...using this filter: 📘 Enter a capture filter ...
   eth0
   any
   Loopback: lo
   bluetooth-monitor
   nflog
   nfqueue
   dbus-system
   dbus-session

    Cisco remote capture: ciscodump

DisplayPort AUX channel monitor capture: dpauxmon

    Random packet generator: randpkt

Systemd Journal Export: sdjournal
SSH remote capture: sshdump
O UDP Listener remote capture: udpdump
Wi-Fi remote capture: wifidump
```

