Experiment 15

FAMILIARIZATION OF KALI LINUX

15.1 Aim

Familiarisation of KALI LINUX .

15.2 Theory

Kali Linux is an open-source, Debaian based linux distro, focused on penetration testing , security research and varous other computer forensics. It was developed by Mati Aharoni and Devon Kearns. Kali Linux is a specifically built operating system for network analysts, penetration testers, and those that work in the field of cybersecurity and analysis. Kali Linux's official website is Kali.org. It became well-known after appearing in the Mr. Robot television series. It is not intended for public usage; rather, it is intended for experts or individuals who are familiar with Linux/Kali.

Kali Linux has around 600 penetration-testing tools like nmap , wireshark, metasploit, etc.

15.3 Procedure

```
gopu@gopu:~$ nmap -p 22 192.168.1.30
Starting Nmap 7.80 ( https://nmap.org ) at 2022-03-07 21:38 IST
Nmap scan report for gopu (192.168.1.30)
Host is up (0.000060s latency).

PORT STATE SERVICE 22/tcp closed ssh

Nmap done: 1 IP address (1 host up) scanned in 0.40 seconds
gopu@gopu:~$
```

Figure 1: nmap command checking port 22

```
gopu@gopu:~$ nmap -p 80 192.168.1.30
Starting Nmap 7.80 ( https://nmap.org ) at 2022-03-07 21:39 IST
Nmap scan report for gopu (192.168.1.30)
Host is up (0.000066s latency).

PORT STATE SERVICE
80/tcp closed http

Nmap done: 1 IP address (1 host up) scanned in 0.06 seconds
gopu@gopu:~$
```

Figure 2: nmap command checking port 80

```
gopu@gopu:~$ nmap -p 20-80 192.168.1.30
Starting Nmap 7.80 ( https://nmap.org ) at 2022-03-07 21:39 IST
Nmap scan report for gopu (192.168.1.30)
Host is up (0.000052s latency).
All 61 scanned ports on gopu (192.168.1.30) are closed
Nmap done: 1 IP address (1 host up) scanned in 0.03 seconds
gopu@gopu:~$

Image: Temperature of the scanned in 0.03 seconds
gopu@gopu:~$
```

Figure 3: nmap command checking the ports ranging from 20 to 80

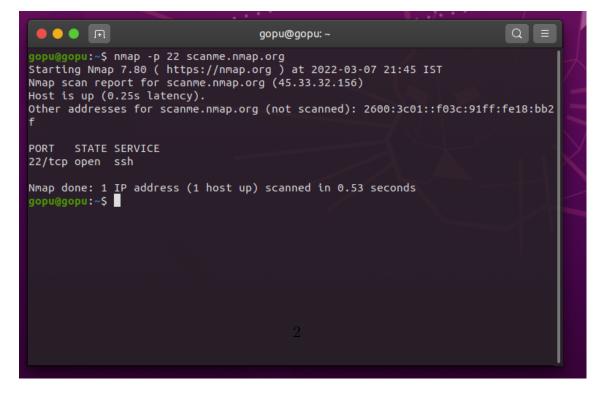


Figure 4: nmap command to check the port 22 on scanme.nmap.org

```
gopu@gopu:~$ nmap -A 192.168.1.30
Starting Nmap 7.80 ( https://nmap.org ) at 2022-03-07 21:41 IST
Nmap scan report for gopu (192.168.1.30)
Host is up (0.000070s latency).
All 1000 scanned ports on gopu (192.168.1.30) are closed

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .

Nmap done: 1 IP address (1 host up) scanned in 0.55 seconds
gopu@gopu:~$
```

Figure 5: nmap -A command on scanme.nmap.org

```
• • • I
                                                                                     Q =
                                         gopu@gopu: ~
gopu@gopu:~$ nmap -A scanme.nmap.org
Starting Nmap 7.80 ( https://nmap.org ) at 2022-03-07 21:46 IST
Stats: 0:01:42 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.40% done; ETC: 21:48 (0:00:00 remaining)
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.35s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 990 closed ports
PORT
         STATE SERVICE
                                  VERSION
22/tcp
                                 OpenSSH 6.6.1p1 Ubuntu 2ubuntu2.13 (Ubuntu Linux; proto
          open
                    ssh
col 2.0)
 ssh-hostkey:
    1024 ac:00:a0:1a:82:ff:cc:55:99:dc:67:2b:34:97:6b:75 (DSA)
    2048 20:3d:2d:44:62:2a:b0:5a:9d:b5:b3:05:14:c2:a6:b2 (RSA)
    256 96:02:bb:5e:57:54:1c:4e:45:2f:56:4c:4a:24:b2:57 (ECDSA)
   256 33:fa:91:0f:e0:e1:7b:1f:6d:05:a2:b0:f1:54:41:56 (ED25519)
23/tcp
          filtered telnet
25/tcp
         open
                   tcpwrapped
|_smtp-commands: Couldn't establish connection on port 25
80/tcp open http Ap
|_http-title: Go ahead and ScanMe!
         open http Apache httpd 2.4.7 ((Ubuntu))
135/tcp filtered msrpc
139/tcp
          filtered netbios-ssn
445/tcp
          filtered microsoft-ds
7007/tcp filtered afs3-bos
9929/tcp open nping-ech
                    nping-echo
                                 Nping echo
31337/tcp open
                    tcpwrapped
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/su
bmit/ .
Nmap done: 1 IP address (1 host up) scanned in 115.42 seconds
gopu@gopu:~$ _
```

Figure 6: nmap -A scanme.nmap.org

15.4 Result

Got Familiarized with Kali linux .