

ELEVATE LABS CYBER SECURITY INTERNSHIP

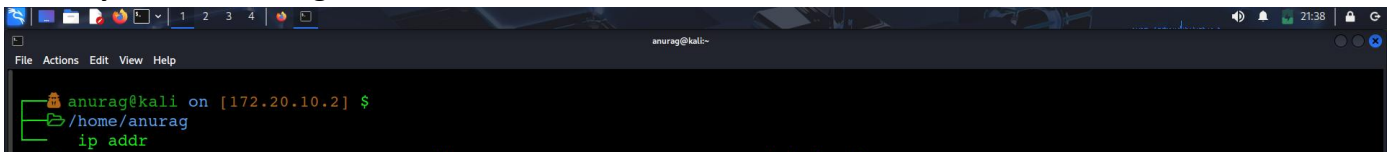
Mothe Anurag Reddy

Task-1:

1) 1.Install Nmap from official website.

Used the linux command `sudo apt install nmap` in my kali linux and downloaded the nmap.

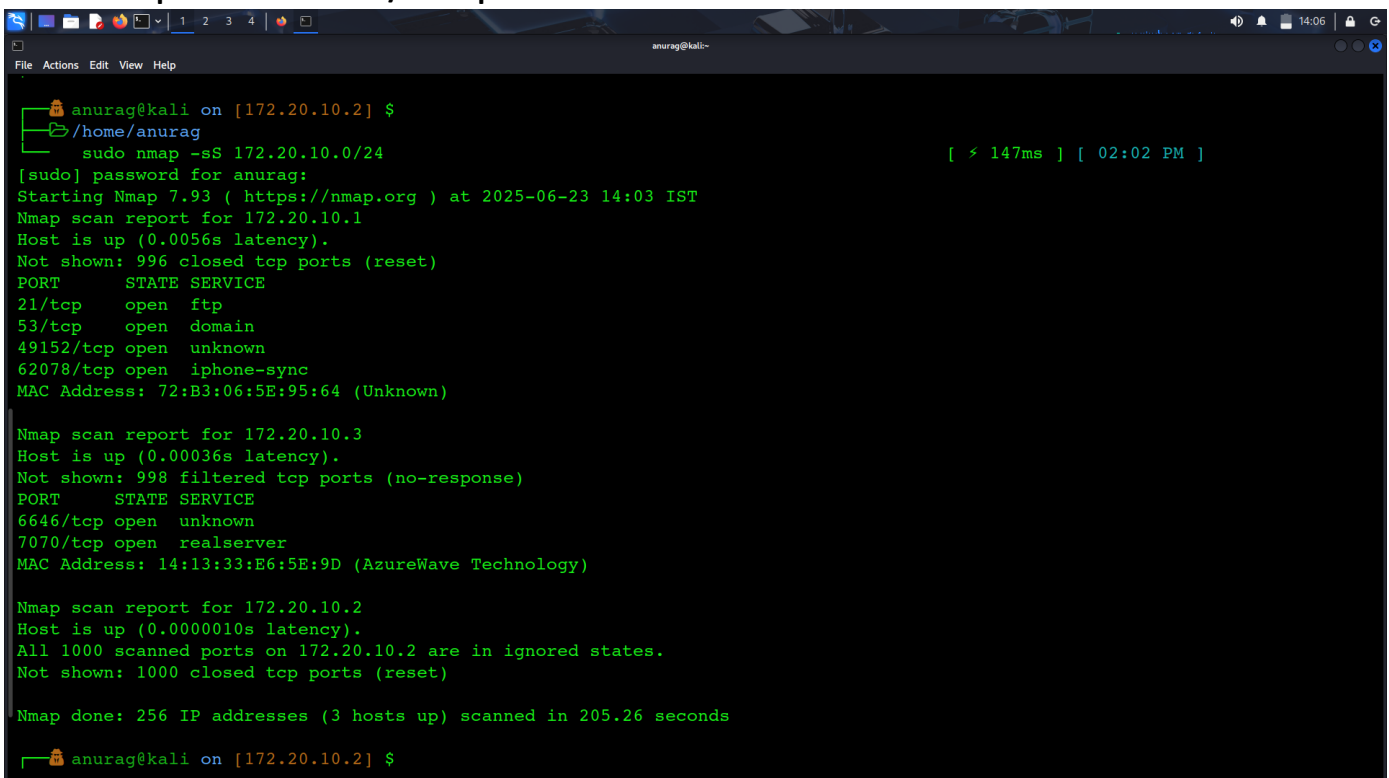
2.Find your local IP range

A terminal window on Kali Linux showing the user 'anurag' at the prompt. The user has entered the command 'ip addr' to find their local IP range. The terminal output shows the IP address 172.20.10.2.

```
anurag@kali on [172.20.10.2] $  
ip addr
```

Here I can find my ip address as 172.20.10.0 with the subnet /24. Now I am scanning this in the nmap using the command `sudo nmap -sn 172.20.10.0 /24` to perform ping scan without a port scan

3.Run: `nmap -sS 172.20.10.0 /24` to perform TCP SYN scan.

A terminal window on Kali Linux showing the execution of an Nmap TCP SYN scan. The user runs 'sudo nmap -sS 172.20.10.0/24'. The terminal output shows the scan results for three hosts: 172.20.10.1, 172.20.10.3, and 172.20.10.2. The scan for 172.20.10.1 shows several open ports (21, 53, 49152, 62078). The scan for 172.20.10.3 shows two open ports (6646, 7070). The scan for 172.20.10.2 shows all 1000 scanned ports in ignored states. The total scan time is 205.26 seconds.

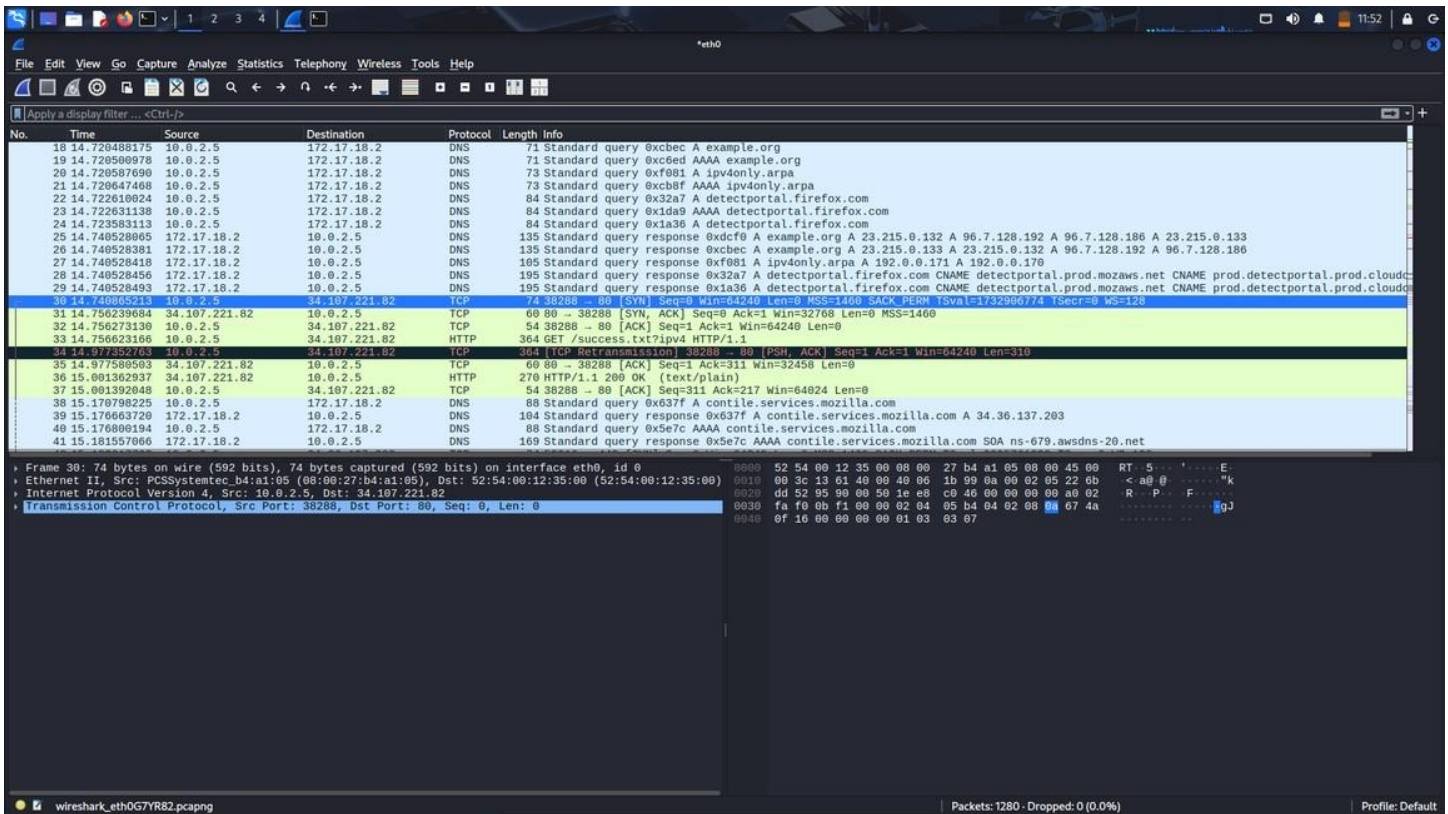
```
anurag@kali on [172.20.10.2] $  
sudo nmap -sS 172.20.10.0/24  
[sudo] password for anurag:  
Starting Nmap 7.93 ( https://nmap.org ) at 2025-06-23 14:03 IST  
Nmap scan report for 172.20.10.1  
Host is up (0.0056s latency).  
Not shown: 996 closed tcp ports (reset)  
PORT      STATE SERVICE  
21/tcp    open  ftp  
53/tcp    open  domain  
49152/tcp open  unknown  
62078/tcp open  iphone-sync  
MAC Address: 72:B3:06:5E:95:64 (Unknown)  
  
Nmap scan report for 172.20.10.3  
Host is up (0.00036s latency).  
Not shown: 998 filtered tcp ports (no-response)  
PORT      STATE SERVICE  
6646/tcp  open  unknown  
7070/tcp  open  realserver  
MAC Address: 14:13:33:E6:5E:9D (AzureWave Technology)  
  
Nmap scan report for 172.20.10.2  
Host is up (0.0000010s latency).  
All 1000 scanned ports on 172.20.10.2 are in ignored states.  
Not shown: 1000 closed tcp ports (reset)  
  
Nmap done: 256 IP addresses (3 hosts up) scanned in 205.26 seconds  
anurag@kali on [172.20.10.2] $
```

4.Note down IP addresses and open ports found.

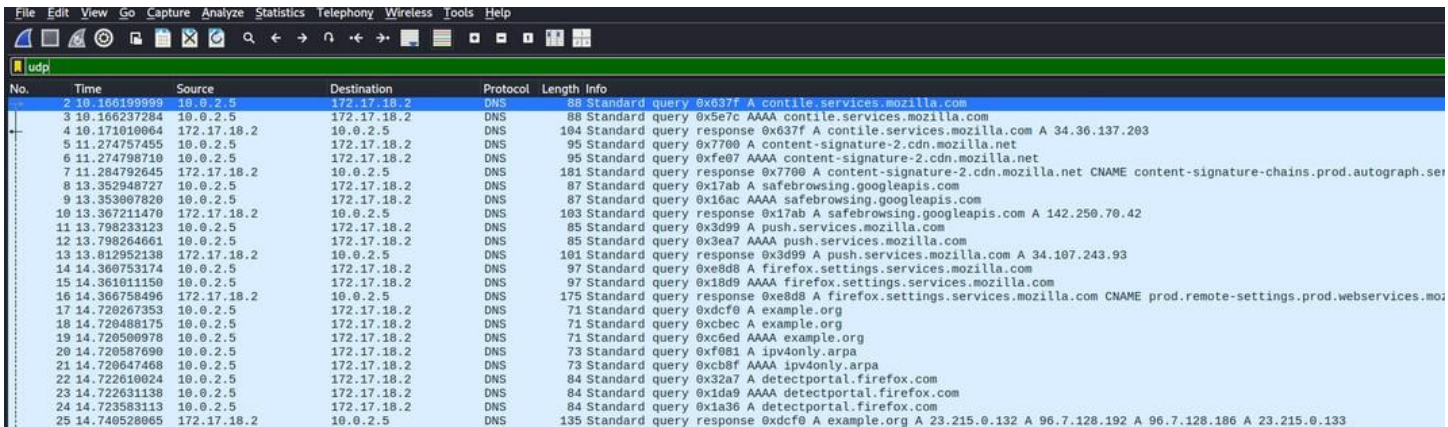
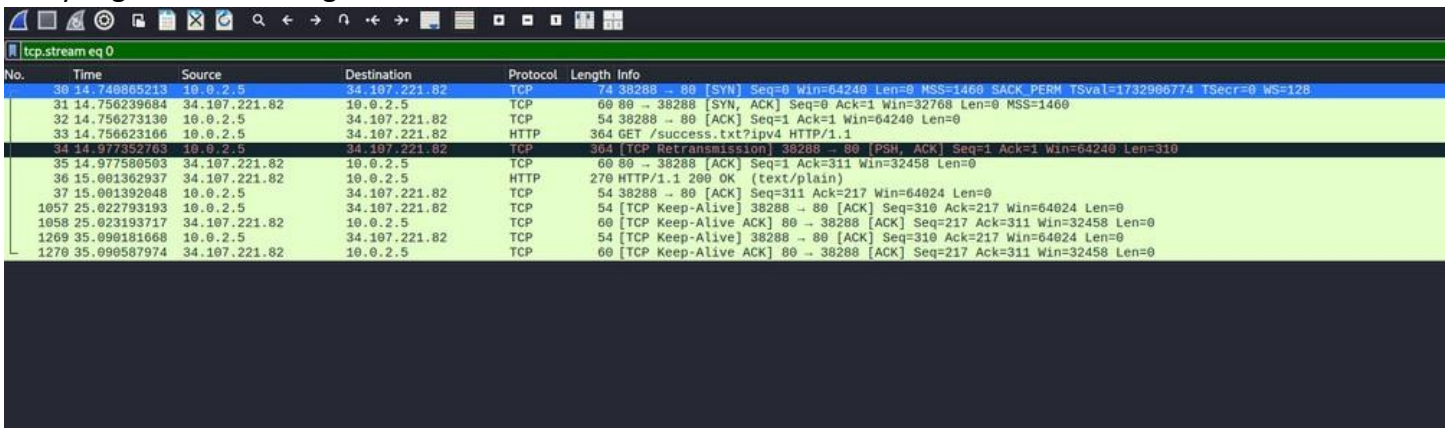
The IP addresses of the open ports found are (1 open port) and (3 open ports)

5.Optionally analyze packet capture with Wireshark.

Captured the live traffic through wireshark



Analysing the traffic using some of the available filters.

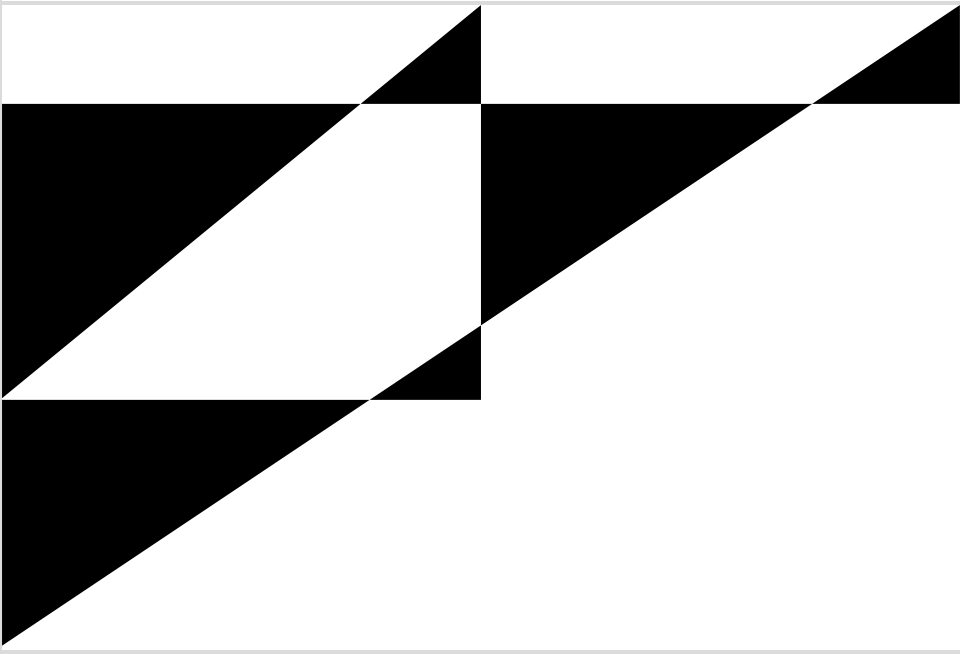


6.Research common services running on those ports.

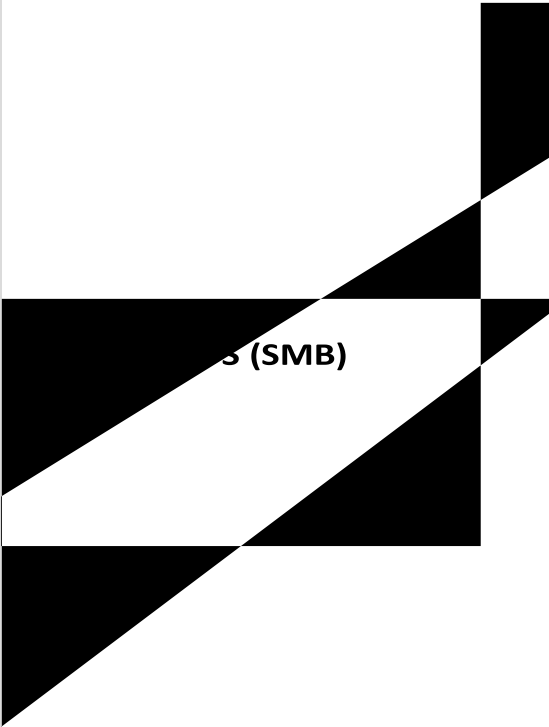
Port	Service
	MSRPC
445/tcp	SMB (SMB)

3306/tcp	MySQL
53/tcp	DNS (TCP)

7. Identify potential security risks from open ports.

Port	Service
	MSRPC

445/tcp



S (SMB)

3306/tcp

MySQL

53/tcp

DNS (TCP)

8. Save scan results as a text or HTML file.

```
anurag@kali on [172.20.10.2] $  
└─ /home/anurag  
    sudo nmap -sS 172.20.10.0/24 [ < 147ms ] [ 02:02 PM ]  
[sudo] password for anurag:  
Starting Nmap 7.93 ( https://nmap.org ) at 2025-06-23 14:03 IST  
Nmap scan report for 172.20.10.1  
Host is up (0.0056s latency).  
Not shown: 996 closed tcp ports (reset)  
PORT      STATE SERVICE  
21/tcp    open  ftp  
53/tcp    open  domain  
49152/tcp open  unknown  
62078/tcp open  iphone-sync  
MAC Address: 72:B3:06:5E:95:64 (Unknown)  
  
Nmap scan report for 172.20.10.3  
Host is up (0.00036s latency).  
Not shown: 998 filtered tcp ports (no-response)  
PORT      STATE SERVICE  
6646/tcp  open  unknown  
7070/tcp  open  realserver  
MAC Address: 14:13:33:E6:5E:9D (AzureWave Technology)  
  
Nmap scan report for 172.20.10.2  
Host is up (0.0000010s latency).  
All 1000 scanned ports on 172.20.10.2 are in ignored states.  
Not shown: 1000 closed tcp ports (reset)  
  
Nmap done: 256 IP addresses (3 hosts up) scanned in 205.26 seconds  
  
anurag@kali on [172.20.10.2] $
```