Name: Kulvir Singh

Register Number: 19BCE2074

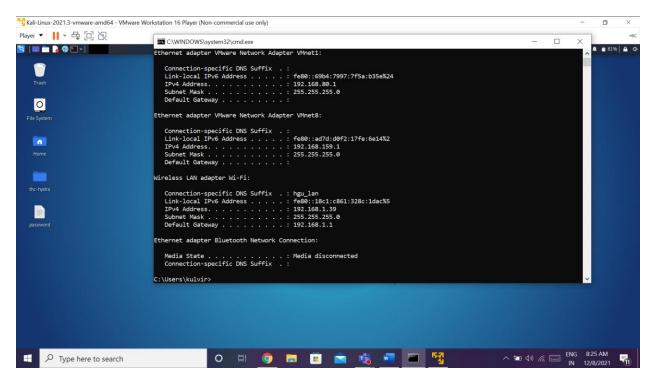
ISAA LAB FAT

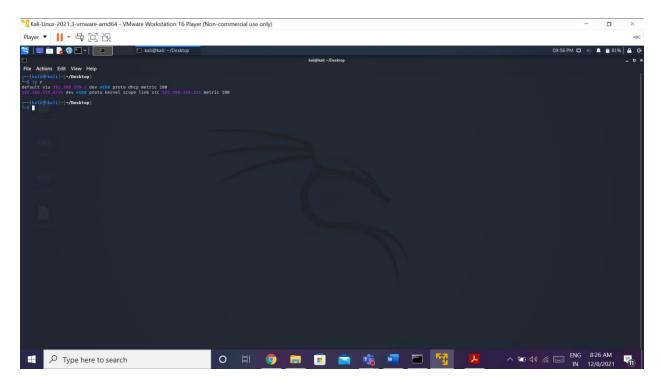
Question 1

The attacker wantsto perform forged responsestohis own virtual machineto identifyMACaddress of a VM. So that, the attacker is now secretly in the middle of all communications. (10)

Solution:

Time: 8:25 am

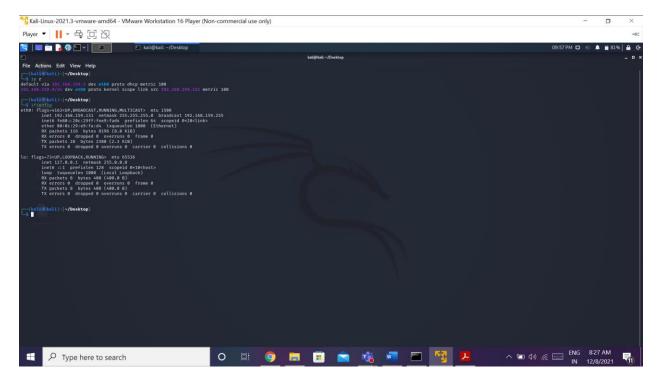




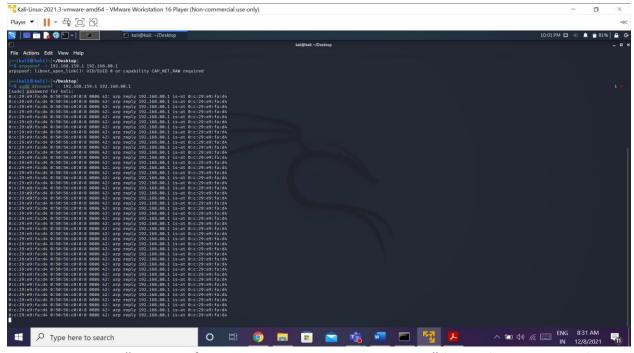
Step 1: Type in "ip r" gives the gateway ip of the router Here the gateway is 192.168.159.2

Kali-Linux-2021.3-vmware-amd64 - VMware Workstation 16 Player (Non-commercial use only) Player ▼ | | ▼ 🗗 🖫 C:\WINDOWS\system32\cmd.exe Ethernet adapter VMware Network Adapter VMnet1: Connection-specific DNS Suffix Link-local IPv6 Address IPv4 Address Subnet Mask Default Gateway fe80::69b4:7997:7f5a:b35e%24 192.168.80.1 255.255.255.0 Ethernet adapter VMware Network Adapter VMnet8: fe80::ad7d:d0f2:17fe:6e14%2 192.168.159.1 255.255.255.0 Wireless LAN adapter Wi-Fi: Connection-specific DNS Suffix : hgu_lan
Link-local IPv6 Address . . : fe80::18c1:c861:328c:1dac%5
IPv4 Address . . : 192.168.1.39
Subnet Mask . . : 255.255.255.0
Default Gateway . : 192.168.1.1 thernet adapter Bluetooth Network Connection: Media State : Media disconnected Connection-specific DNS Suffix . : C:\Users\kulvir> O 🛱 🧿 🔚 🖫 🙀 🚾 🖭 📆 へ 知 句) 信 回 ENG 8:25 AM IN 12/8/2021 1 Type here to search

Step 2: Now we need to know the victim IP say,192.168.80.1



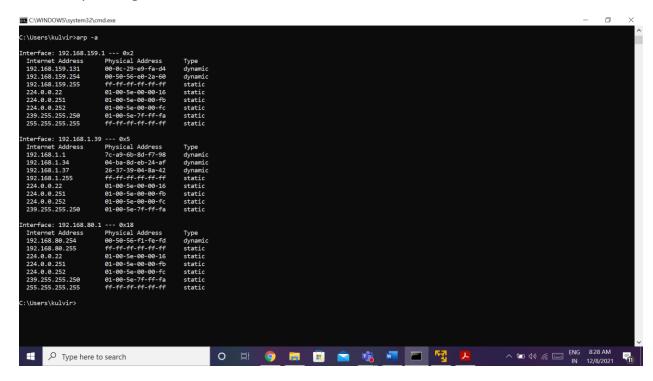
Step 3: Type in "ifconfig" to know the interface and mac id we are using



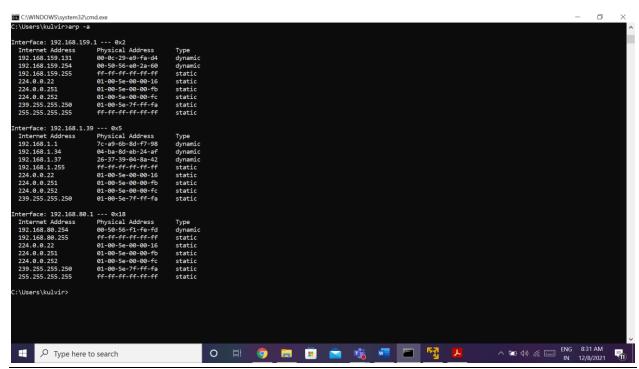
Step 4: Type in "arpspoof -t 192.168.159.1 192.168.80.1" here this command is to spoof target

Results:

Before spoofing:



After spoofing:

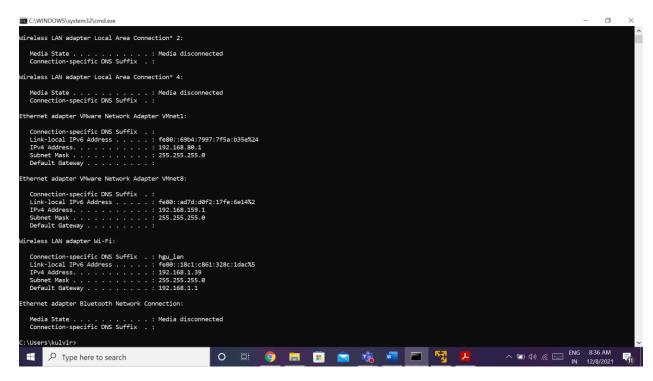


Question 2:

Demonstrate DDOS attack and Brute force Attack

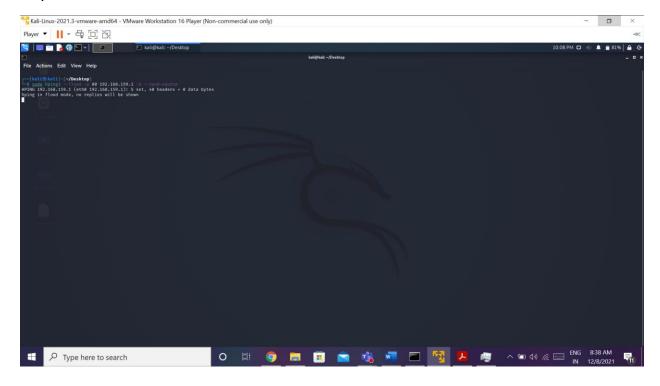
Solution:

Time: 8:36am

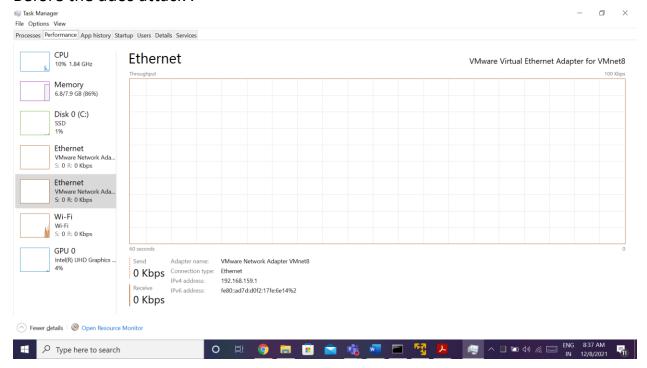


DDOS Attack using HPING

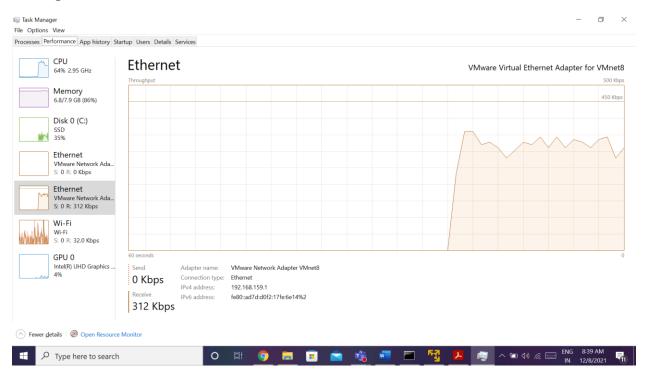
Open terminal and type in "hping3 --flood -p 80 192.168.159.1 -S --rand-source" to perform ddos attack



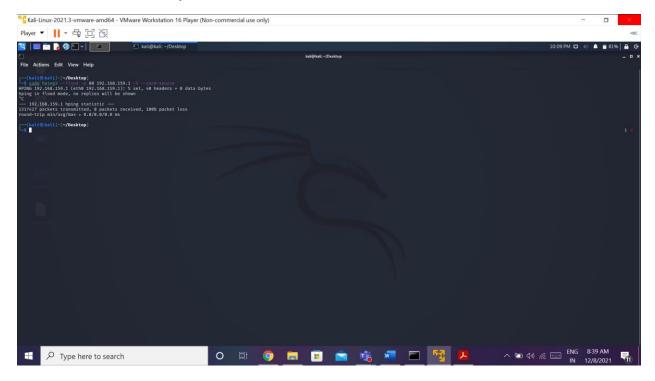
Before the ddos attack:



During the ddos attack:

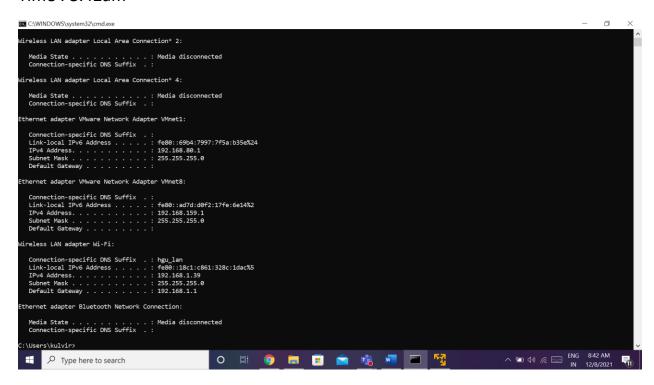


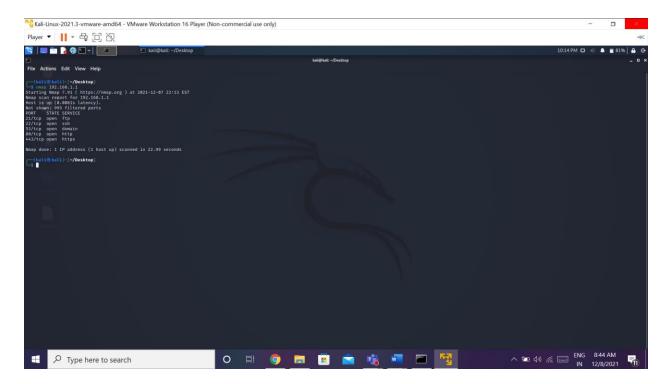
There were 1317527 packets transmitted to the victim



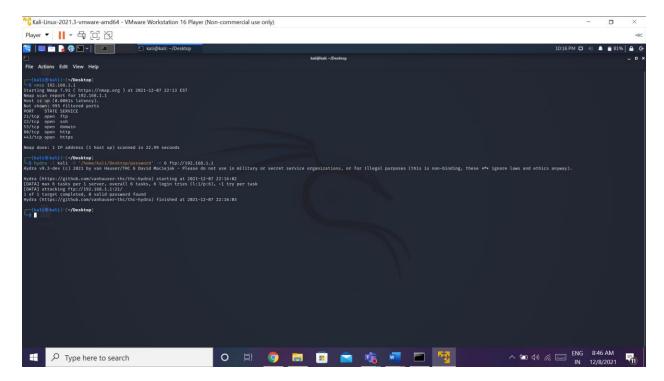
Brute-Force Attack using HYDRA

Time: 8:42am





This shows that ftp and ssh is open.



hydra -l kali -P '/home/kali/Desktop/password' -t 6 ftp://192.168.1.1 this will perform the brute-force and check all the passwords written in the password file and if there is a match, it will show as seen in the above screenshot.

Question 3

Extract the detailed information of the following along with screen shots using Wireshark(20)

UDP stream.

TCP stream.

FTP stream.

Social Gathering of a known website.

Solution

Time: 8:51am

```
Ethernet adapter Whare Network Adapter Whret1:

Connection-specific DNS Suffix :

Lini-local IPN6 Address . : fea8::6904:7997:775a:b356M24
IPN4 Address . : 192.168.88.11
Subnet Mask . : 255.255.255.0
Default dateway . :

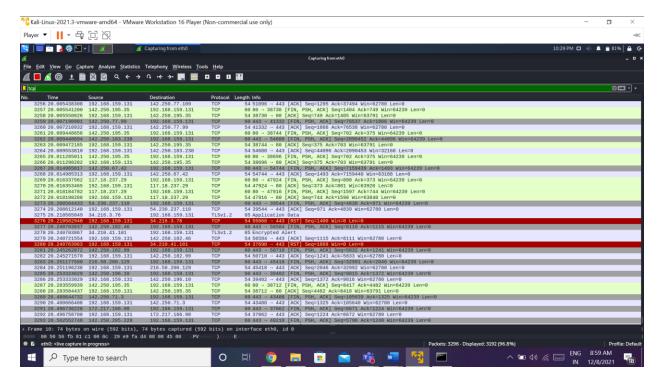
Ethernet adapter Whare Network Adapter Vinet8:

Connection-specific DNS Suffix : fea8::adri:def2:17fe:6e14%2
IPN4 Address . : 192.168.191
INI-local IPN6 Address . : 192.168.191
Subnet Mask . : 255.255.255.0
Default dateway . :

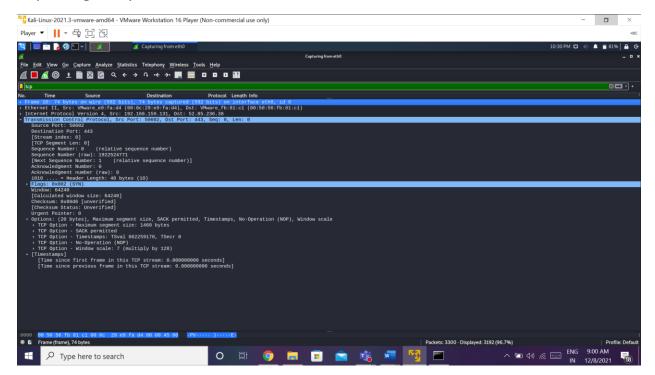
Mireless LAN adapter Ni-fi:
Connection-specific DNS Suffix : hgu_lan
Lini-local IPN6 Address . : fea8::lact:def2:128c:1dac%5
IPN4 Address . : 192.168.1.19
Subnet Mask . : 255.255.255.0
Default dateway : 192.168.1.19
Subnet Mask . : 192.168.11
Subnet Mas
```

<mark>Tcp</mark>

Using youtube.com for accessing and capturing the packets on wireshark

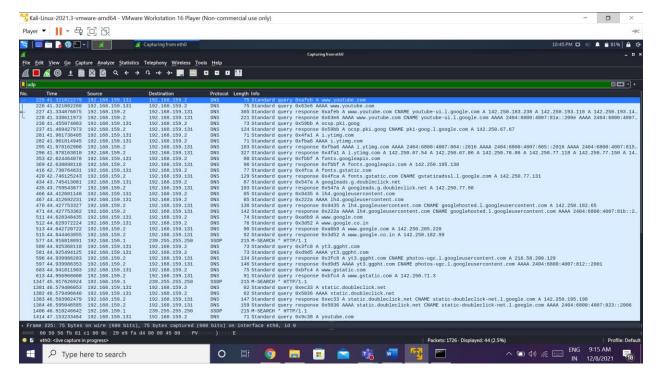


Capturing TCP packets

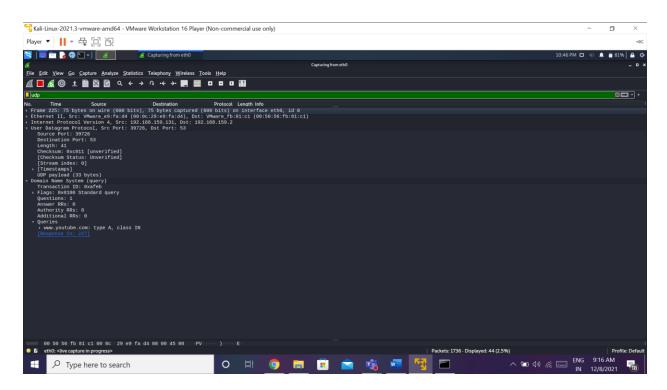


74 bytes or 10 frames captured for tcp and other relevant data seen.

<mark>Udp</mark>

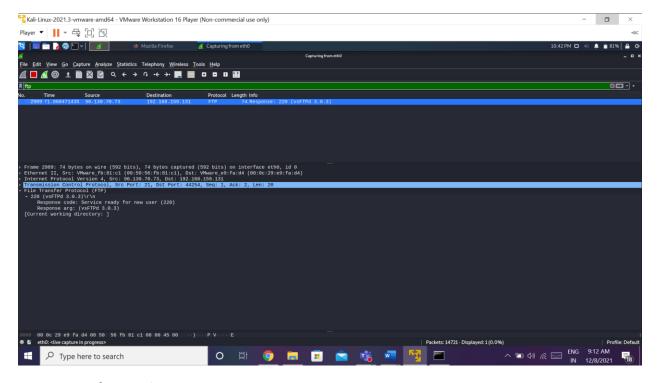


Capturing UDP packets

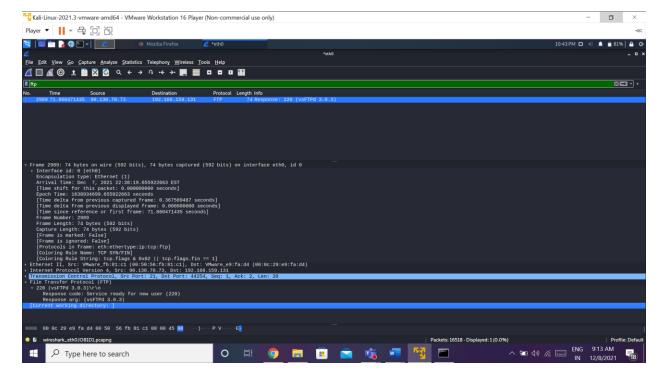


75 bytes or 225 frames captured for udp and other information



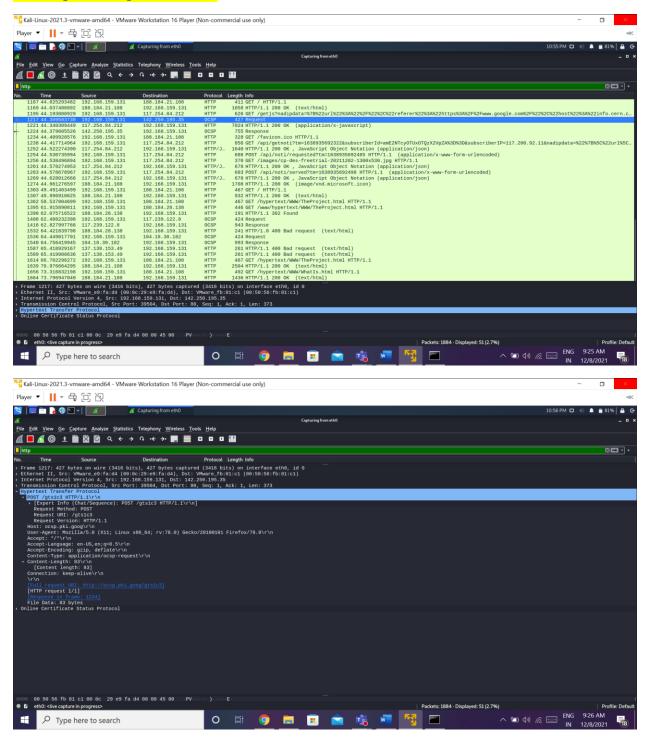


Capturing ftp packets



74 bytes or 2989 frames captured for ftp and other information

Social gathering of website



1217 frames or 427 bytes captured for social gathering via http website