

VIT-AP

UNIVERSITY

NAME – Tadepalli vijaya krishna

REG.No – 21BCE7553

LAB – CSE-4043

ASSIGNMENT-1

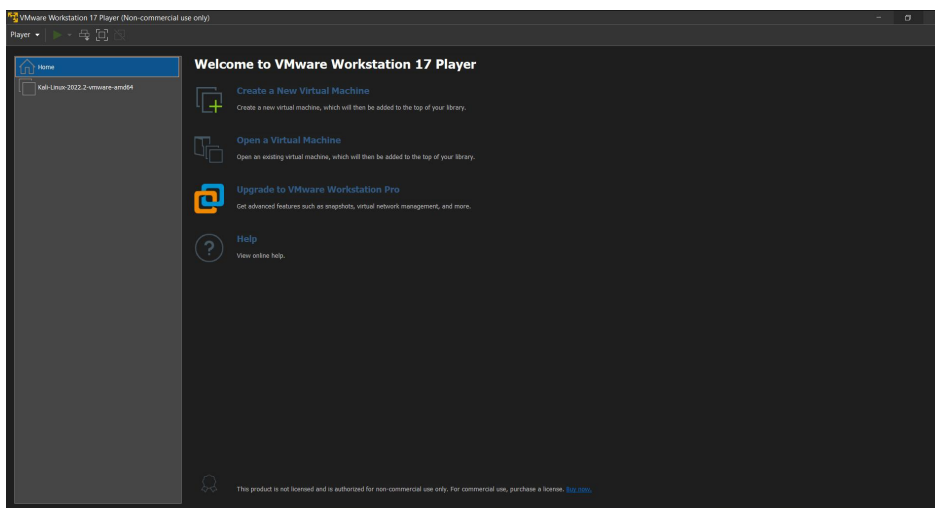
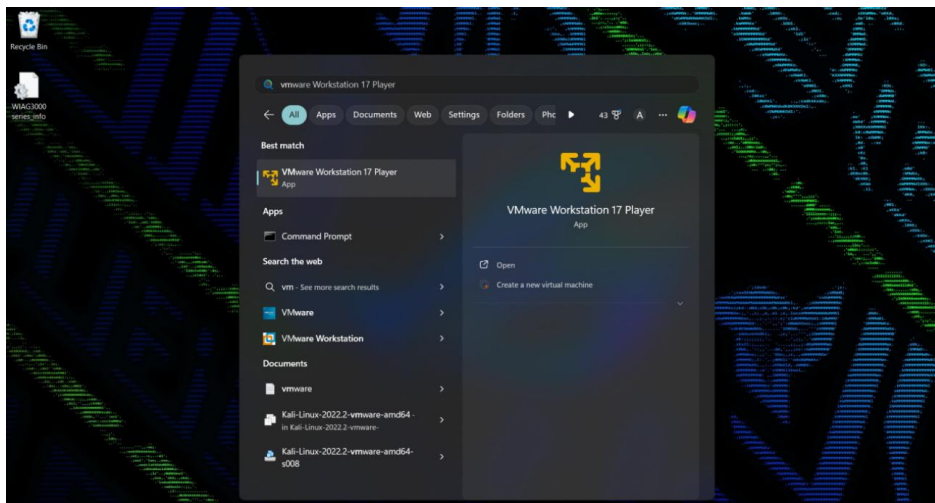
QUESTION:

Experiment with two tools in the attached file.

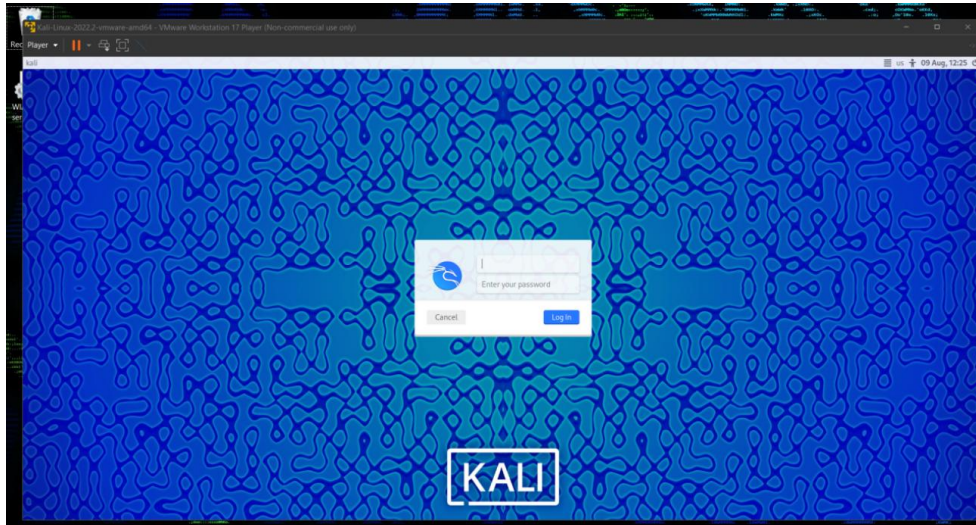
Write Step by Step Procedure & Attach a Screen Shot of the Performance.

INSTALLATION:-

Install a VM-Ware from (https://www.techspot.com/downloads/189-vmware-workstation-for-windows.html#google_vignette) And continue the setup. After completion of VM-Ware installation add Kali Linux to the workstation.



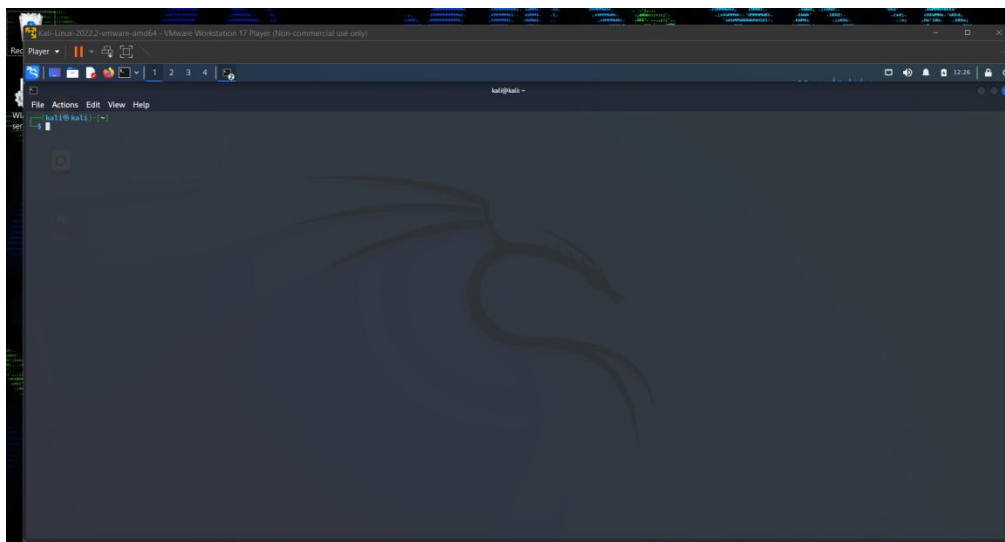
After successfully loading login to your Kali Linux.



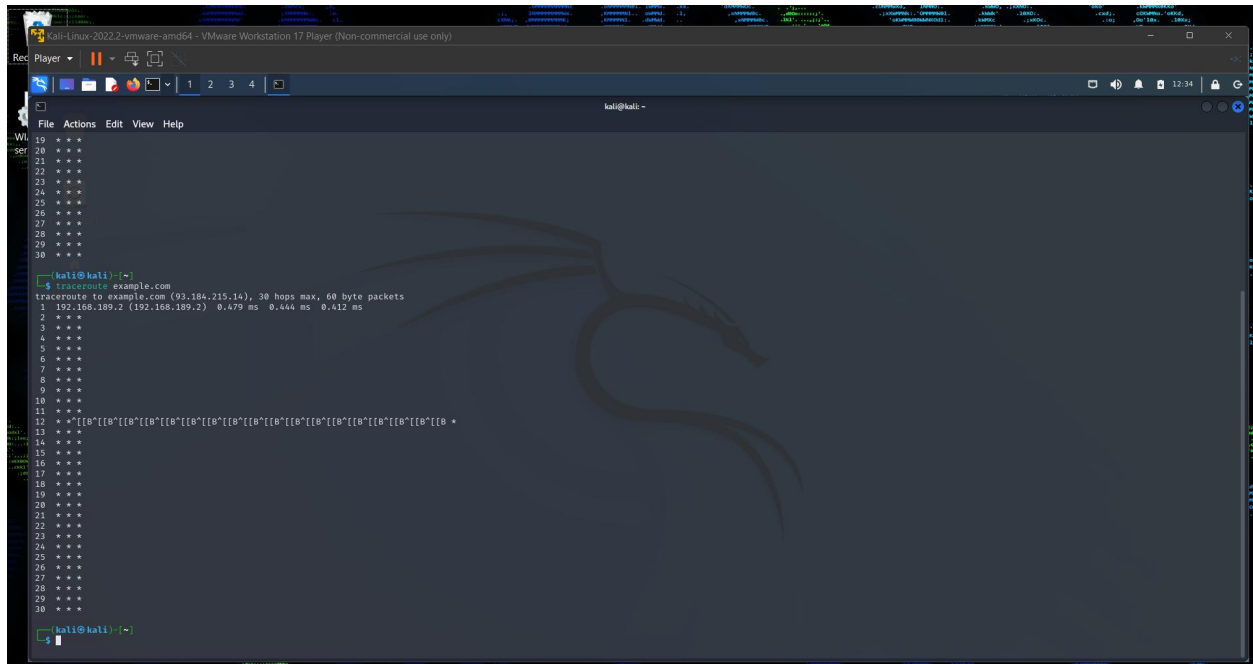
Tool 1(Trace route):-

It is a network diagnostic tool in Linux used to trace the path packets take from your machine to a destination (such as a website or IP address). It displays the route (path) and measures transit delays of packets across an IP network.

Open cmd in the Kali Linux



Enter (traceroute example.com)



The screenshot shows a Kali Linux terminal window within a VMware Workstation 17 Player. The terminal displays the command `traceroute example.com` and its output. The output shows the path from the local host to example.com, including the IP address of the destination and the number of hops. The terminal also shows a large, stylized dragon logo in the background.

```
kali@kali:~$ traceroute example.com
traceroute to example.com (93.184.215.14), 30 hops max, 60 byte packets
 1 192.168.189.2 (192.168.189.2) 0.479 ms 0.444 ms 0.412 ms
 2 * * *
 3 * * *
 4 * * *
 5 * * *
 6 * * *
 7 * * *
 8 * * *
 9 * * *
10 * * *
11 * * *
12 * * *
13 * * *
14 * * *
15 * * *
16 * * *
17 * * *
18 * * *
19 * * *
20 * * *
21 * * *
22 * * *
23 * * *
24 * * *
25 * * *
26 * * *
27 * * *
28 * * *
29 * * *
30 * * *
```

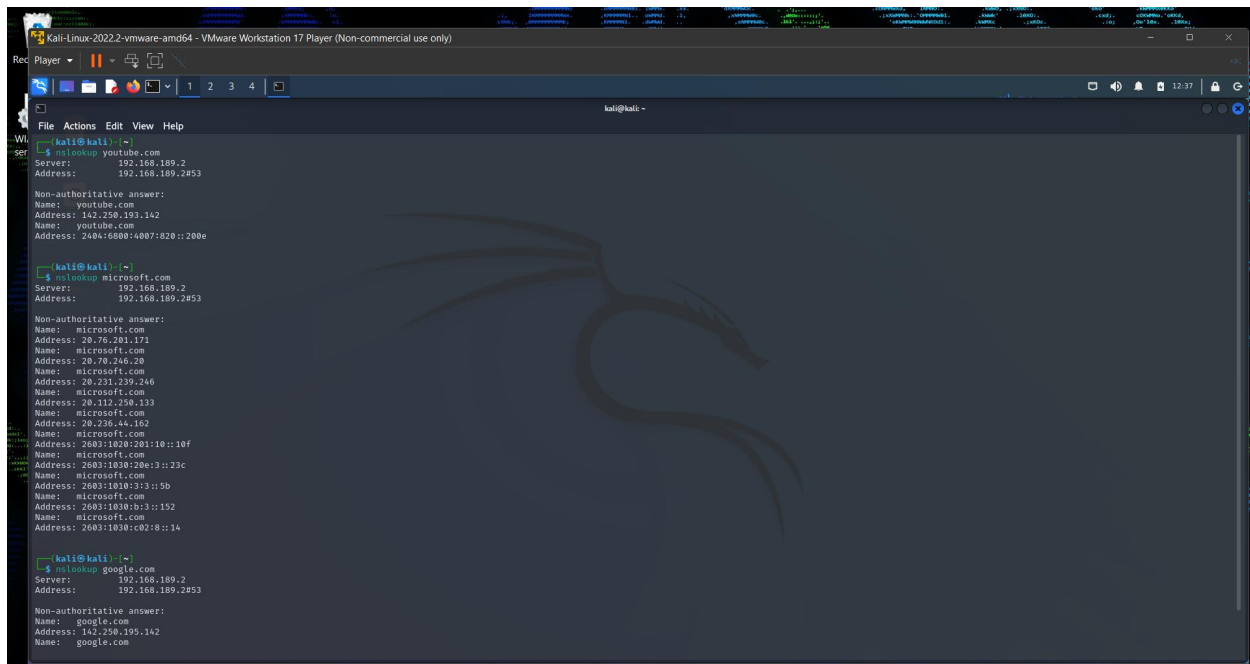
Here is the output for the following website. If we are using Linux we don't need any tools that need to be installed on our computers.

Tool 2(Nslookup):-

The nslookup command in Linux is a network administration tool used for querying the Domain Name System (DNS) to obtain domain name or IP address mapping, or for any other specific DNS records. It's commonly used to troubleshoot DNS-related issues.

As mentioned in the above procedures open Linux in your pc and run cmd in the Linux after cmd gets open

Enter

A screenshot of a Kali Linux terminal window running inside a VMware Workstation 17 Player. The terminal shows the execution of the 'nslookup' command for three different domains: youtube.com, microsoft.com, and google.com. The output for each command displays the server IP (192.168.189.2), the authoritative answer (Name: youtube.com, Address: 142.250.193.142), and a non-authoritative answer (Name: youtube.com, Address: 2404:6800:4007:820::200e). The terminal also shows the IP addresses for microsoft.com and google.com. The background of the terminal window features a Kali Linux dragon logo.

```
kali@kali:~$ nslookup youtube.com
Server:      192.168.189.2
Address:     192.168.189.253

Non-authoritative answer:
Name:   youtube.com
Address: 142.250.193.142
Name:   youtube.com
Address: 2404:6800:4007:820::200e

kali@kali:~$ nslookup microsoft.com
Server:      192.168.189.2
Address:     192.168.189.253

Non-authoritative answer:
Name:   microsoft.com
Address: 20.70.201.171
Name:   microsoft.com
Address: 20.70.246.20
Name:   microsoft.com
Address: 20.231.239.246
Name:   microsoft.com
Address: 20.112.250.133
Name:   microsoft.com
Address: 20.236.44.162
Name:   microsoft.com
Address: 2603:1020:201:10::10f
Name:   microsoft.com
Address: 2603:1030:20e:13:23c
Name:   microsoft.com
Address: 2603:1030:13::5b
Name:   microsoft.com
Address: 2603:1030:b:13::152
Name:   microsoft.com
Address: 2603:1030:c02:18::14

kali@kali:~$ nslookup google.com
Server:      192.168.189.2
Address:     192.168.189.253

Non-authoritative answer:
Name:   google.com
Address: 142.250.193.142
Name:   google.com
```

Here we get the output for the given example.

According to my suggestion using Linux would be better as it comes pre-loaded in the software we don't need any external tool for gathering the data.