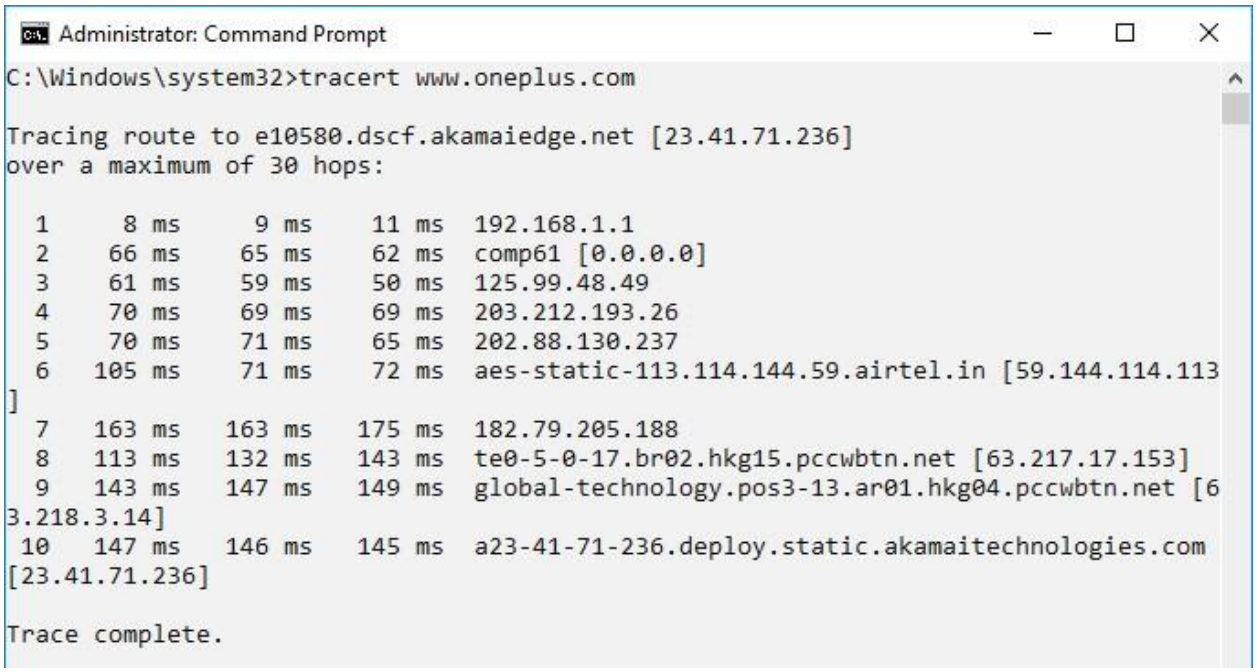
PRACTICAL NO 3

AIM:Linux Network Analysis and ARP Poisoning

Linux Network Analysis:

- Execute the ifconfig command to retrieve network interfaceinformation.
- Use the ping command to test network connectivity and analyze the output.
- Analyze the netstat command output to view active network connections.
- Perform a traceroute to trace the route packets take to reach a target host.

Step 1: Type tracert and type www.oneplus.com press “Enter”.



Step 2: Ping all the IP address

>ipconfig

```
C:\Windows\system32>ipconfig

Windows IP Configuration


Ethernet adapter Npcap Loopback Adapter:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::e0f9:2fdc:cdc7:7bfe%28
   Autoconfiguration IPv4 Address. . : 169.254.123.254
   Subnet Mask . . . . . . . . . . . : 255.255.0.0
   Default Gateway . . . . . . . . . :

Ethernet adapter Ethernet:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::a560:66a0:a556:5eaf%14
   IPv4 Address. . . . . . . . . . . : 192.168.1.61
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.1.1
```

>ping 91.240.109.42

```
C:\Windows\system32>ping 91.240.109.42

Pinging 91.240.109.42 with 32 bytes of data:
Reply from 91.240.109.42: bytes=32 time=175ms TTL=53
Reply from 91.240.109.42: bytes=32 time=173ms TTL=53
Reply from 91.240.109.42: bytes=32 time=173ms TTL=53
Reply from 91.240.109.42: bytes=32 time=171ms TTL=53

Ping statistics for 91.240.109.42:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 171ms, Maximum = 175ms, Average = 173ms
```

Step 3: netstat

```
C:\Windows\system32>netstat

Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    192.168.1.61:1137      e1:https               ESTABLISHED
  TCP    192.168.1.61:1146      131.253.33.254:https   ESTABLISHED
  TCP    192.168.1.61:1153      e1-ha:https            ESTABLISHED
  TCP    192.168.1.61:1200      e3-ha:https            ESTABLISHED
  TCP    192.168.1.61:1201      e3-ha:https            ESTABLISHED
  TCP    192.168.1.61:1203      e1:https               ESTABLISHED
  TCP    192.168.1.61:1273      server-52-222-136-21:https  CLOSE_WAIT
  TCP    192.168.1.61:1281      e2:https               ESTABLISHED
  TCP    192.168.1.61:1309      151.101.38.110:https   ESTABLISHED
  TCP    192.168.1.61:1340      media-router-fp2:https  ESTABLISHED
  TCP    192.168.1.61:1341      media-router-fp2:https  ESTABLISHED
  TCP    192.168.1.61:1552      52.230.3.194:https     ESTABLISHED
  TCP    192.168.1.61:1574      dialup-mum-203:https   ESTABLISHED
  TCP    192.168.1.61:1634      COMP53:ms-do           ESTABLISHED
  TCP    192.168.1.61:7680      comp151:1748           ESTABLISHED
  TCP    192.168.1.61:7680      comp66:26329           ESTABLISHED
  TCP    192.168.1.61:7680      comp150:1667           ESTABLISHED
  TCP    192.168.1.61:7680      192.168.1.163:1651     ESTABLISHED
```

Step 4: ifconfig