9. Analysing network packet stream using tcpdump and wireshark. Perform basic network service tests using nc.

Installing tcpdump and analysing network packet stream

Procedure:

Step 1: Update the system

sudo apt-get update

Step 2: Install tcpdump on the system

sudo apt-get install tcpdump

Step 3: Check the version

tcpdump --version

To capture packets from a source ip.

tcpdump –n src host ip-address

OUTPUT

```
terpier: Littering on englist, Link-type BitMPD (Ethernet), capture size 202144 bytes

1879-20-35378-0 (to Sub, tit 64, id 19154, offset 0, flags [07], proto UDP (17), length 75)

1870-20-3578-0 (to Sub, tit 64, id 7654-0, flags [07], proto UDP (17), length 75)

1870-20-3578-0 (to Sub, tit 64, id 4, offset 0, flags [07], proto UDP (17), length 75)

1870-20-3578-0 (to Sub, tit 64, id 4597), offset 0, flags [07], proto UDP (17), length 75)

1870-20-3578-0 (to Sub, tit 64, id 4597), offset 0, flags [07], proto UDP (17), length 76)

1870-20-3578-0 (to Sub, tit 64, id 4597), offset 0, flags [07], proto UDP (17), length 76)

1870-20-3578-0 (to Sub, tit 64, id 1973), offset 0, flags [07], proto UDP (17), length 77)

1870-20-3578-0 (to Sub, tit 64, id 1973), offset 0, flags [07], proto UDP (17), length 77)

1870-20-3578-0 (to Sub, tit 64, id 1973), offset 0, flags [07], proto UDP (17), length 77)

1870-20-3578-0 (to Sub, tit 64, id 1973), offset 0, flags [07], proto UDP (17), length 77)

1870-20-3578-0 (to Sub, tit 64, id 1973), offset 0, flags [07], proto UDP (17), length 78]

1870-20-3578-0 (to Sub, tit 64, id 1973), offset 0, flags [07], proto UDP (17), length 78]

1870-20-3578-0 (to Sub, tit 64, id 1973), offset 0, flags [07], proto UDP (17), length 78]

1870-20-3578-0 (to Sub, tit 64, id 1973), offset 0, flags [07], proto UDP (17), length 78]

1870-20-3578-0 (to Sub, tit 64, id 1973), offset 0, flags [07], proto UDP (17), length 78]

1870-20-3578-0 (to Sub, tit 64, id 64, offset 0, flags [07], proto UDP (17), length 78]

1870-20-3578-0 (to Sub, tit 64, id 7877, offset 0, flags [07], proto UDP (17), length 78]

1870-20-3578-0 (to Sub, tit 64, id 7877, offset 0, flags [07], proto UDP (17), length 78]

1870-20-3578-0 (to Sub, tit 64, id 7877, offset 0, flags [07], proto UDP (17), length 78]

1870-20-3578-0 (to Sub, tit 64, id 7877, offset 0, flags [07], proto UDP (17), length 78]

1870-20-3578-0 (to Sub, tit 64, id 40, offset 0, flags [07], proto UDP (17), length 78]

1870-20-3578-0 (to Sub, tit 64, id 40, offset 0,
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Installing wireshark and analysing network packet stream

Wireshark is a free and open-source network protocol analyser widely used around the globe. With Wireshark, you can capture incoming and outgoing packets of a network in real-time and use it for network troubleshooting, packet analysis, software and communication protocol development, and many more.

Procedure:

Step 1: Update the system

sudo apt-get update

Step 2: Install wireshark on the system

sudo apt-get install wireshark

Step 3: Check the version

wireshark -version

OUTPUT

To capture network packet streams type,

wireshark

then copy the ip address

