

26/10/24

# PRACTICAL - 14

AIM:

Write a code using RAW sockets to implement packet sniffing

CODE:

```
import socket
import os

def sniff_packets():
    try:
        sniffer = socket.socket(socket.AF_INET,
                                socket.SOCK_RAW, socket.IPPROTO_IP)
        sniffer.bind(("0.0.0.0", 0))
        sniffer.setsockopt(socket.IPPROTO_IP,
                           socket.IP_HDRINCL, 1)
        if os.name == "posix":
            os.system("sudo ifconfig eth0
                       promise")
        print("Packet Sniffer is running")
```

while True :

packet = sniffer.recvfrom(65565)[0]

print(f"Captured Packet : {packet.hex()}")

except Exception as e :

print(f"error : {e}").

print("Ensure you have root privileges to open raw sockets").

if \_\_name\_\_ == "\_\_main\_\_" :

sniff\_packets().

OUTPUT :

Captured Packet : A500003C1C464000400

6b1e6c0a80101ca

80102

RESULT: Thus the program is successfully executed and output is verified.

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