

Exp. 14

How socket to implement
packet sniffing.

Date: 29.10.24

Ans:

To write code using sockets
to implement packet sniffing

Algorithm.

→ Start sniffing: capture packets

→ Check packet type

→ Identify protocol

→ Display

→ Repeat

Code:

packet sniffer.py.

from socket import *

from sys import *

def packet_callback(packet):

if ip == packet[IP]

protocol = ip-layer.protocol

src_ip = ip-layer.src

dst_ip = ip-layer.dst

Developed of labos and
else: protocol - name = "unknown-protocol"

print(f"protocol: {protocol}")
print(f"source IP: {src_ip}")
print(f"destination IP: {dst_ip}")
print(f"offset = 0")

def main():
 sniff (iface = "eth0", port = 8080, filter = "IP", count = 0)

if __name__ == "__main__":
 main()

Output:

Protocol: TCP

Source IP: 51.132.993.108

Destination IP: 192.168.34.193

Protocol: TCP:

Source IP: 192.168.34.193

Destination IP: 51.132.993.108

Result:

Thus, program is successfully
compiled & verified