

# Implementing of Packet Sniffing Using RAW Sockets

6/10/28  
Expt: 14

AIM:-

To implement packet sniffing using RAW Sockets

Algorithm:-

- from scapy all import sniff
- from scapy.layers import IP, TCP, UDP, ICMP
- from scapy.layers import sniff

def packet\_callback(packet):

if IP in packet

ip\_layer = packet[IP]

protocol = ip\_layer.proto

src\_ip = ip\_layer.src

dst\_ip = ip\_layer.dst

protocol\_name = "

if protocol == 1:

protocol\_name = "ICMP"

elif protocol == 6:

protocol\_name = "TCP"

elif protocol == 17:

protocol\_name = "UDP"

else:

protocol\_name = "unknown protocol"

print(f"Protocol: {protocol\_name}")

print(f"Source IP: {src\_ip}")

print(f"Destination IP: {dst\_ip}")

print("-" \* 50)

Sniff Cifore = filter

Sample Input

Step 1: The  
https://www.

Step 2: Any  
another

Sample Output

Protocol:  
Some IP  
Destination

RES

A

be

Sniff Cifore = 'wi-Fi', prn=socket\_callback,  
filter = "ip", ntrn = 0)

Sample Input :-

Step 1: Open a web browser and visit  
<https://www.google.com>

Step 2: Run the command 8.8.8.8 ping in  
another Terminal

Sample output:-

Protocol : TCP

Source IP: 192.168.1.5

Destination IP: 192.250.183.110

Result :- Hence the experiment on the implementation of socket sniffing using raw sockets has been executed successfully.

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