

Aim :

write a code using Raw Sockets to implem Packet

Sniffing

Code:

from scapy.all import sniff

from scapy.layers.inet import IP, TCP, UDP, ICMP

def packet\_callback(packet):

if IP in packet

IP-layer = packet[IP]

Protocol = IP-layer.proto

src-ip = IP-layer.src

dest-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: {source - ip}")

Print (f"destination IP: {dest - ip}")

Print (" " \* 50)

def main

sniff (iface = wifi, pm = Packet - callback,  
filter = "ip", store 0)

if - name == "1 main -"

0/p:

Protocol: TCP

Source IP: 51.132.193.105

destination IP: 192.161.34.193

.....

Protocol: TCP

Source IP: 198.168.34.193

destination IP: 51.132.193.105

Result:

Thus implementation of packet sniffing is done  
using Raw Sockets.

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