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Sniffing using RAW Sockets

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

dst_ip = IP_layer.dst

Determine the protocol

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 packet details

print(f"Protocol: {protocol_name}")

print(f"Source IP: {src_ip}")

print(f"Destination IP: {dst_ip}")

print("_" * 50)

Capture packets on the default network

Result :

Hence the experiment on the implementation of Packet sniffing using RAW Sockets has been executed successfully.

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