

Sun 4
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Packet Sniffing

Aim:

Write a code using RAW sockets to implement packet sniffing

Algorithm:

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

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 ("Protocol: {Protocol Name}")

print ("Source IP: {src IP}")

print ("Destination IP: {dst IP}")

print ("*50")

def main():

sniff (iface="wi-fi", n=packet_callback, filter="IP", store=0)

if name == "_main_":

main()

Result: