

Allet: To implement a code using PAW sockets to implement paobet sniffing

program!

from Stapy-all impart sruff
from Stapy-layors - Inst import IP, TCP, USP 10MP.
dog. Packet Callback (packet):

if IP in packet:

ip layer o packet CIP)

protocol = ip layer proto

Svc ip = ip layer Svc

det ip ip layon det

protocol - name = " "

of protocol == =:

protocol name = " Jone"

elif protocol == 6:

protocol- name = "TCP"

elif protocol = 17:

protocol-name = "UDP"

else:

protocol name = " unknown protocol"

print (f" protocol: & protocol_name y")

print (f" Sounce IP: & Src_ip y")

print (f" Destination IP: & dat_ip y")

print ("-" * 50)

dep main co:

sniff c ipace = 'wifi' prn = packet_callback, prisen = " 1p"

ff - name == "- main _ "1

main co

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Output:

protocol : TCP

Source IF: 20 247 184 142

Destination JP : 172.20.10.2

protocol: TOP

Source IF. 20 247, 189, 140

Distinction #8 : 172 20.10.2

protocol: TUP

Sauna JP! 172.20.10.2

Destination JP: 20, 247, 184, 142

protocol: TOP

Source IP! 172.20.10.2

Destination IP 20 797.189.142

Rescut:

Thus the packet sniffing program was executed successfully and the output is worified.