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from scapy.all import sniff, IP, TCP
import pandas as pd

packets = []

def packet_handler(packet):
    if IP in packet:
        packet_details = {
            'src': packet[IP].src,
            'dst': packet[IP].dst,
            'proto': packet[IP].proto,
            'sport': packet[TCP].sport if
TCP in packet else None,
            'dport': packet[TCP].dport if
TCP in packet else None
        }
        packets.append(packet_details)
        if TCP in packet:
            print(f"IP: {packet[IP].src}
-> {packet[IP].dst} | Protocol:
{packet[IP].proto} | TCP:
{packet[TCP].sport} ->
{packet[TCP].dport}")
        else:
            print(f"IP: {packet[IP].src}
-> {packet[IP].dst} | Protocol:
{packet[IP].proto}")

print("بدء التقاط حزم الشبكة")
sniff(prn=packet_handler, filter="ip",
store=0, count=100)
print("تم الانتهاء من التقاط الحزم")

df = pd.DataFrame(packets)

print("عرض البيانات الملتقطة")
print(df.head())

df.to_csv('captured_packets.csv',
index=False)
print("ملف في البيانات حفظ تم
captured_packets.csv")

```