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jupyter Packet_Sniffer Last Checkpoint: 6 minutes ago (unsaved changes) Python 3 (ipykernel) ●

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In [1]: pip install scapy

Requirement already satisfied: scapy in c:\users\owner\anaconda3\lib\site-packages (2.6.1)
Note: you may need to restart the kernel to use updated packages.

In [*]:

```
import scapy.all as scapy
from scapy.layers.inet import IP, TCP, UDP, ICMP

def packet_callback(packet):

    if packet.haslayer(IP):
        ip_src = packet[IP].src
        ip_dst = packet[IP].dst
        protocol = packet[IP].proto

    if packet.haslayer(TCP):
        tcp_src_port = packet[TCP].sport
        tcp_dst_port = packet[TCP].dport
        print(f"[TCP] {ip_src}:{tcp_src_port} -> {ip_dst}:{tcp_dst_port}")
    elif packet.haslayer(UDP):
        udp_src_port = packet[UDP].sport
        udp_dst_port = packet[UDP].dport
        print(f"[UDP] {ip_src}:{udp_src_port} -> {ip_dst}:{udp_dst_port}")
    elif packet.haslayer(ICMP):
        print(f"[ICMP] {ip_src} -> {ip_dst}")

    if packet.payload:
        print(f"Payload: {packet.payload}")
    print("-" * 50)
```

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```
if packet.payload:
    print(f"Payload: {packet.payload}")
    print("-" * 50)

def start_sniffer(interface="eth0"):
    print(f"Starting packet sniffer on interface: {interface}")
    scapy.sniff(iface=interface, prn=packet_callback, store=False)

if __name__ == "__main__":
    interface = input("Enter the network interface to sniff (e.g., eth0, wlan0, Wi-Fi): ")
    start_sniffer(interface)
```

Enter the network interface to sniff (e.g., eth0, wlan0, Wi-Fi): Wi-Fi

Starting packet sniffer on interface: Wi-Fi

[TCP] 192.168.29.134:58294 -> 104.18.33.45:443

Payload: IP / TCP 192.168.29.134:58294 > 104.18.33.45:https A / Raw

[TCP] 104.18.33.45:443 -> 192.168.29.134:58294

Payload: IP / TCP 104.18.33.45:https > 192.168.29.134:58294 A

Payload: 192.168.29.1 > 224.0.0.1 2 / Raw

Payload: 192.168.29.1 > 224.0.0.1 2 / Raw

Payload: 192.168.29.1 > 224.0.0.1 2 / Raw

Payload: 192.168.29.134 > 224.0.0.22 2 / Raw

Payload: 192.168.29.134 > 224.0.0.22 2 / Raw

Payload: 192.168.29.134 > 224.0.0.22 2 / Raw

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Trusted Python 3 (ipykernel)

```
-----
Payload: 192.168.29.134 > 224.0.0.22 2 / Raw
-----
Payload: 192.168.29.134 > 224.0.0.22 2 / Raw
-----
[TCP] 192.168.29.134:58270 -> 172.64.148.188:443
Payload: IP / TCP 192.168.29.134:58270 > 172.64.148.188:https A / Raw
-----
[TCP] 172.64.148.188:443 -> 192.168.29.134:58270
Payload: IP / TCP 172.64.148.188:https > 192.168.29.134:58270 A
-----
[TCP] 192.168.29.134:58274 -> 104.26.13.205:443
Payload: IP / TCP 192.168.29.134:58274 > 104.26.13.205:https A / Raw
-----
[TCP] 104.26.13.205:443 -> 192.168.29.134:58274
Payload: IP / TCP 104.26.13.205:https > 192.168.29.134:58274 A
-----
Payload: 192.168.29.32 > 224.0.0.22 2 / Raw
-----
Payload: 192.168.29.32 > 224.0.0.22 2 / Raw
-----
Payload: 192.168.29.32 > 224.0.0.22 2 / Raw
-----
[TCP] 35.171.64.192:443 -> 192.168.29.134:58424
Payload: IP / TCP 35.171.64.192:https > 192.168.29.134:58424 PA / Raw
-----
[TCP] 35.171.64.192:443 -> 192.168.29.134:58424
Payload: IP / TCP 35.171.64.192:https > 192.168.29.134:58424 FA
-----
[TCP] 192.168.29.134:58424 -> 35.171.64.192:443
Payload: IP / TCP 192.168.29.134:58424 > 35.171.64.192:https A
-----
[UDP] 192.168.29.32:5353 -> 224.0.0.251:5353
Payload: IP / UDP / mDNS Qry b'companion-link_tcp.local.'
```