# 实验报告

发送OSPF数据包代码如下:

import ipaddress

from scapy.all import \*

from scapy.contrib.ospf import \*

# eth\_src=input("Ether src:").encode()

# eth\_src = bytes(eth\_src.strip())

#

# eth\_dst=input("Ether dst:").encode()

# eth\_dst=bytes(eth\_dst.strip())

#

# ip\_src=input("ip src:").encode()

# ip\_src=bytes(ip\_src.strip())

# print(len(ip\_src))

# ip\_dst=input("ip dst:").encode()

# ip\_dst=bytes(ip\_dst.strip())

eth\_src=input("Ether src:")[0:18]

print(eth\_src)

eth\_dst=input("Ether dst:")[0:18]

print(eth\_dst)

ip\_src=input("ip src:")

ip\_dst=input("ip dst:")

# print("\nPacket Info:")

# print("Ethernet layer")

# print("eth src:" + eth\_src)

# print("eth dst:" + eth\_dst)

# print("IP layer:")

# print("ip src:" + ip\_src)

# print("ip dst:" + ip\_dst)

packet = Ether(src=eth\_src,dst=eth\_dst)

packet = packet/IP(src=ip\_src,dst=ip\_dst)

packet = packet/OSPF\_Hdr(src=ip\_src)

packet/OSPF\_Hello(router='172.17.2.2',backup='172.17.2.1')

# packet = Ether(src='00:06:28:b9:85:31',dst='01:00:5e:00:00:05')

# packet = packet/IP(src='172.17.2.2',dst='224.0.0.5')

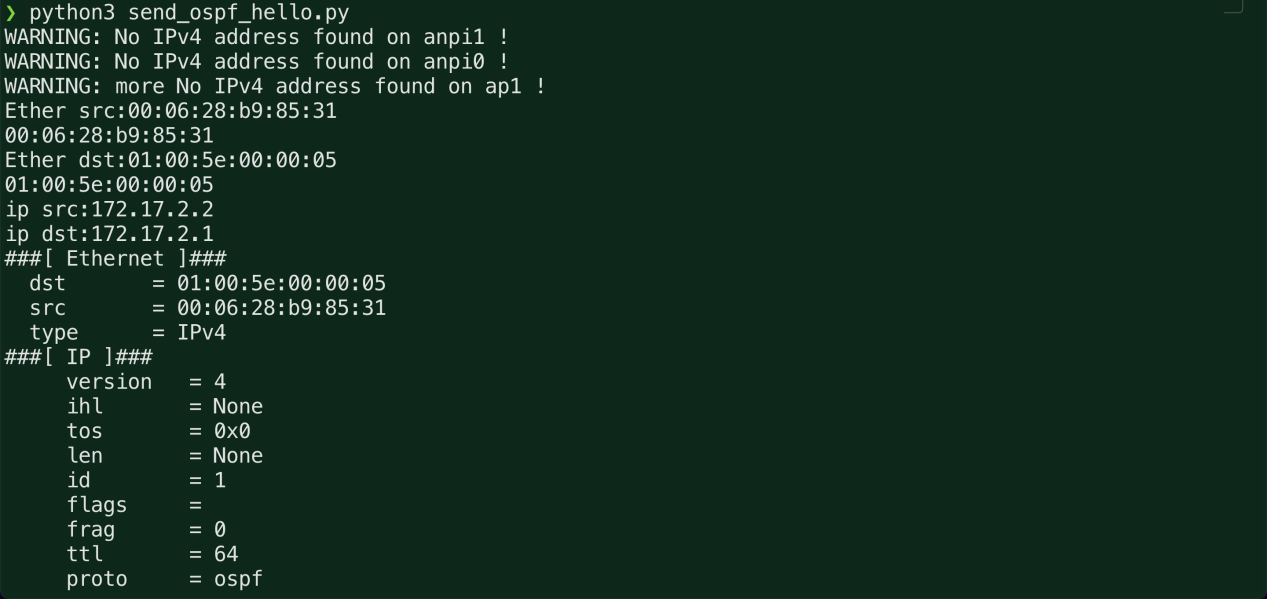
# packet = packet/OSPF\_Hdr(src='172.17.2.2')

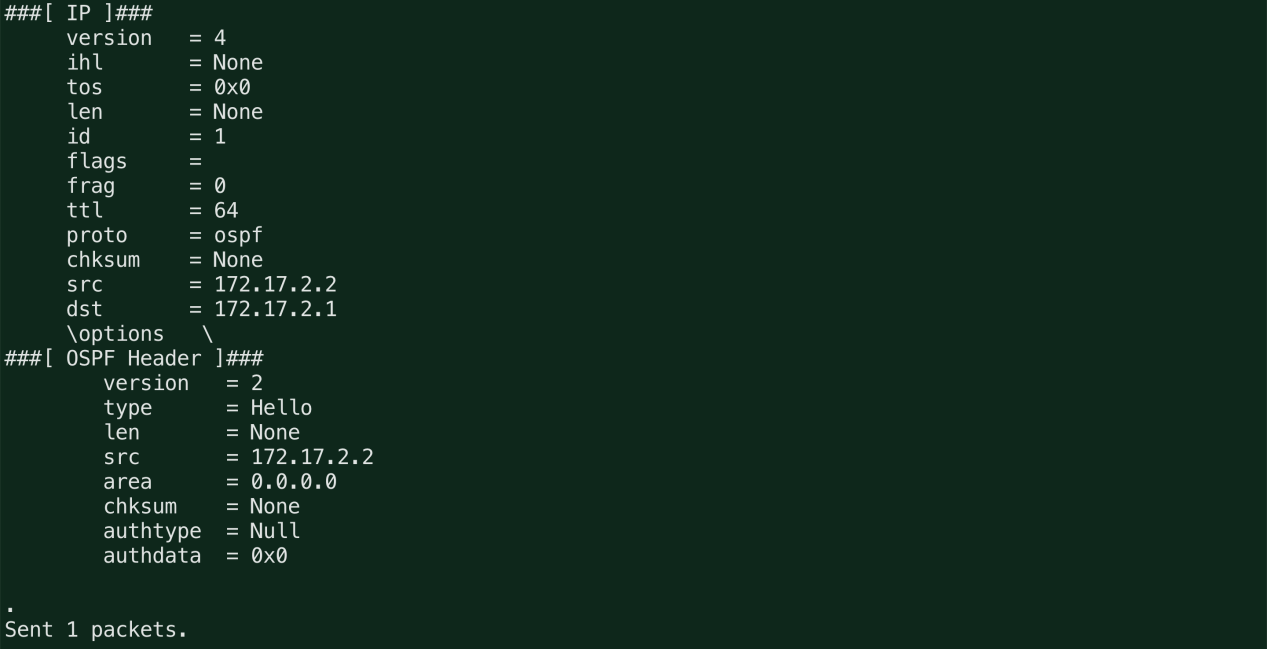
# packet/OSPF\_Hello(router='172.17.2.2',backup='172.17.2.1')

packet.show()

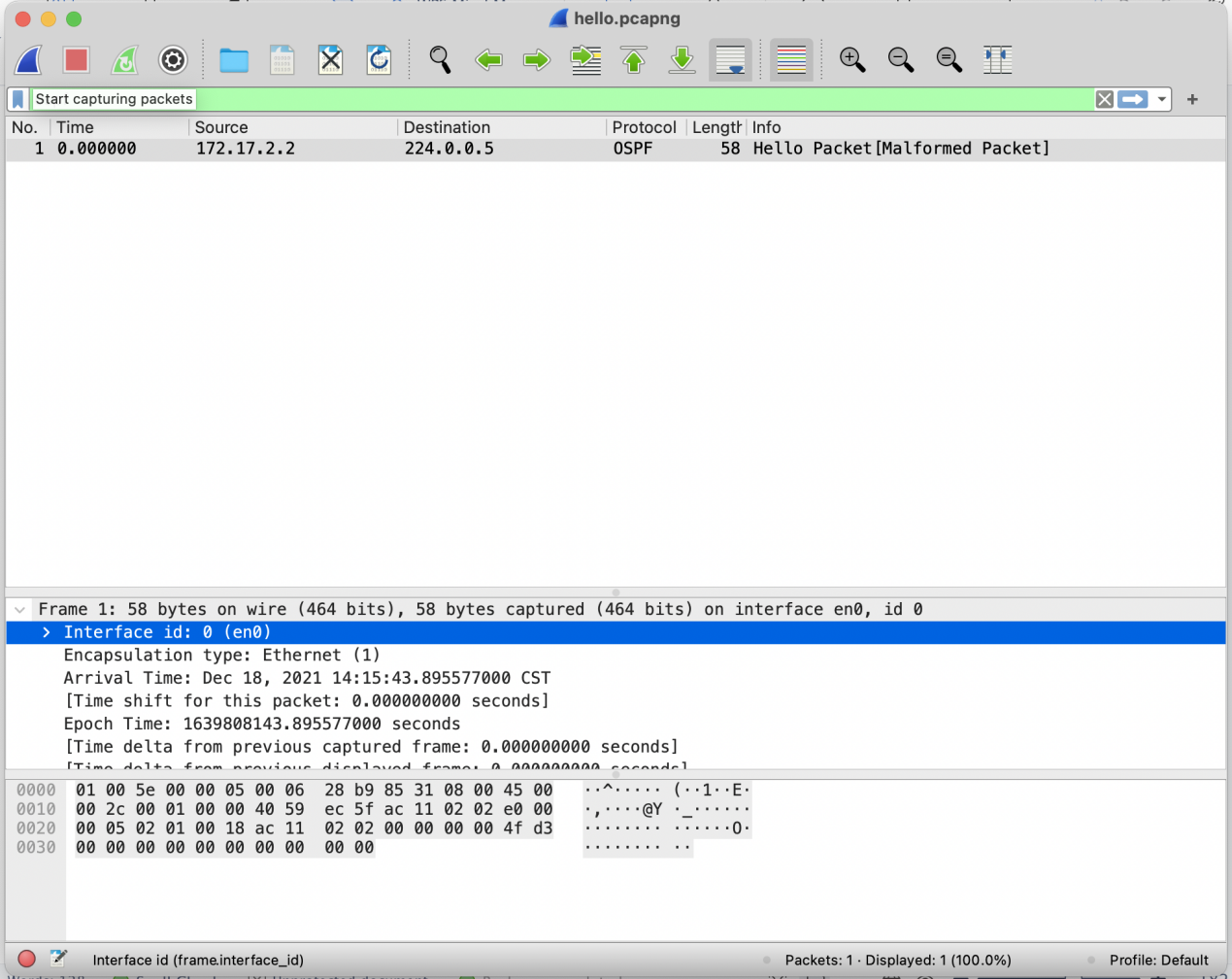
sendp(packet,iface='en0')

运行结果如下:





wireshark抓包情况



使用python脚本解析ospf的hello报文

