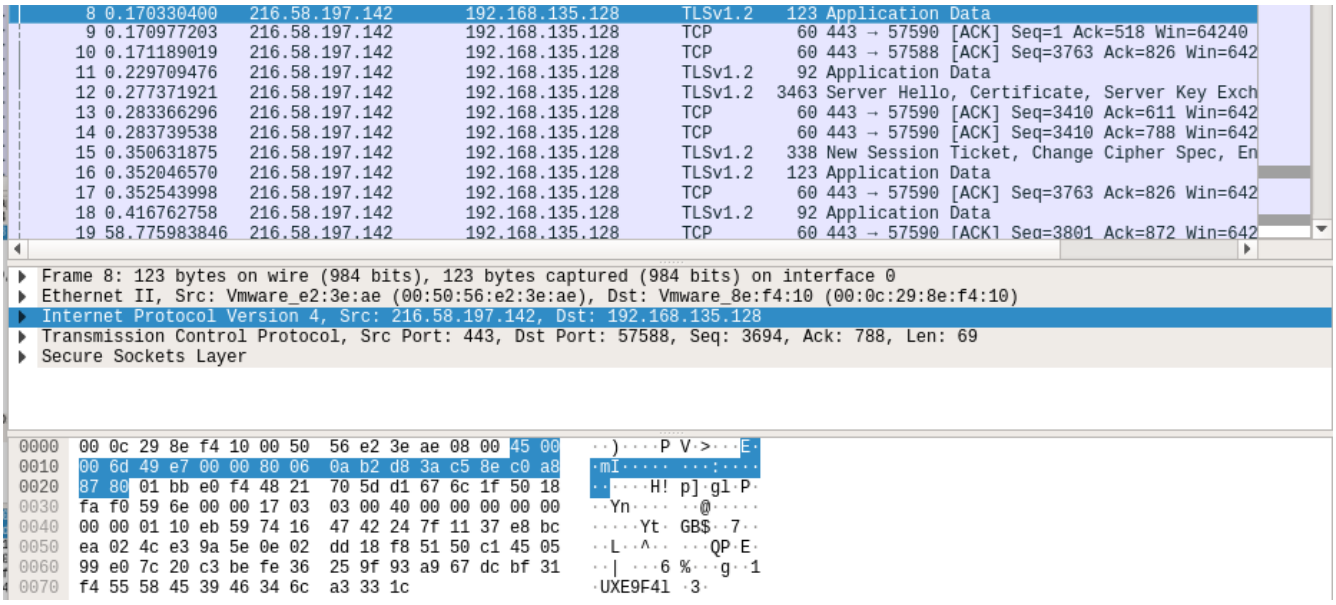
데이터통신

제출일	2019. 03. 10
과제번호	01
분반	02
학과	**컴퓨터공학과**
학번	201502087
이름	**이세형**

1. YOUTUBE.COM



Is the frame an outgoing or an incoming frame?

→ incoming frame 이유 : SRC 의 주소가 Youtube의 주소이고 Dst의 주소가 내 Pc 주소이기 때문에 외부에서 내 컴퓨터로 들어오는 신호의 패킷이다. 같은 이유로 밑의 나머지 4개의 패킷분석결과에 대한 답도 전부 incoming frame이다.

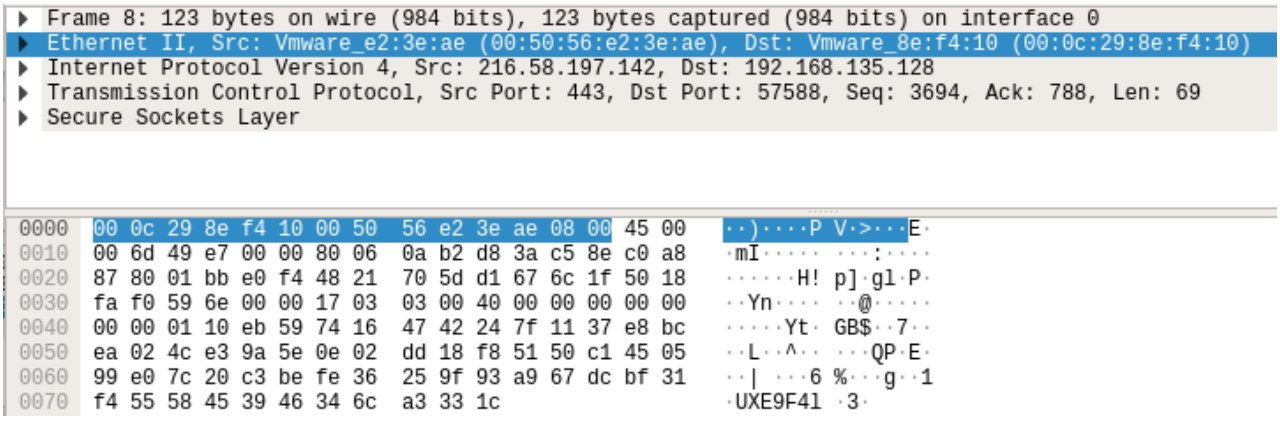
What is the source IP address of the network-layer header in the frame?

→ 192.168.135.128

What is the destination IP address of the network-layer header in the frame?

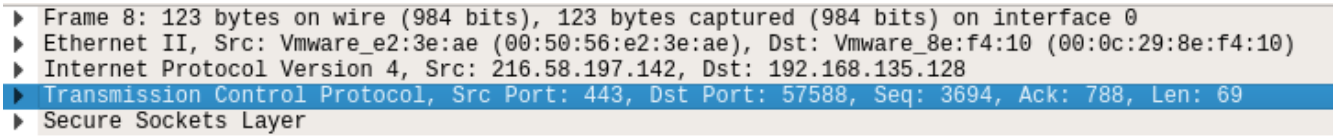
→ 172.217.163.238

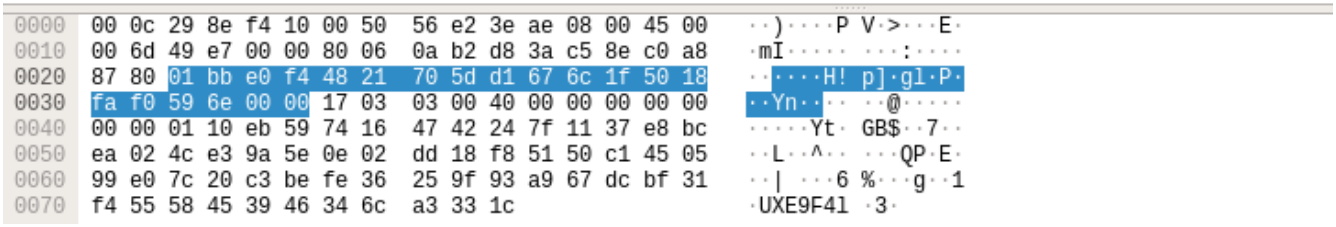
What is the total number of bytes in the whole frame? → 123 bytes



What is the number of bytes in the Ethernet (data-link layer) header?→ 14

What is the number of bytes in the IP header?→ 20

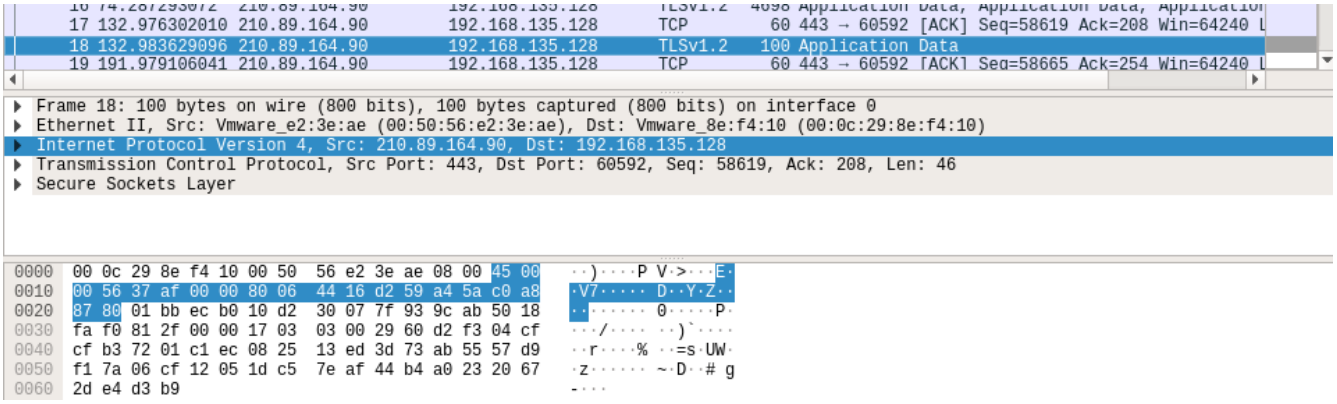




What is the number of bytes in the TCP header?→ 20

What is the total bytes in the message (at the application layer)?→ 123-(14+20+20) = total 69bytes

2. NAVER.COM



Is the frame an outgoing or an incoming frame?

→ incoming frame

What is the source IP address of the network-layer header in the frame?

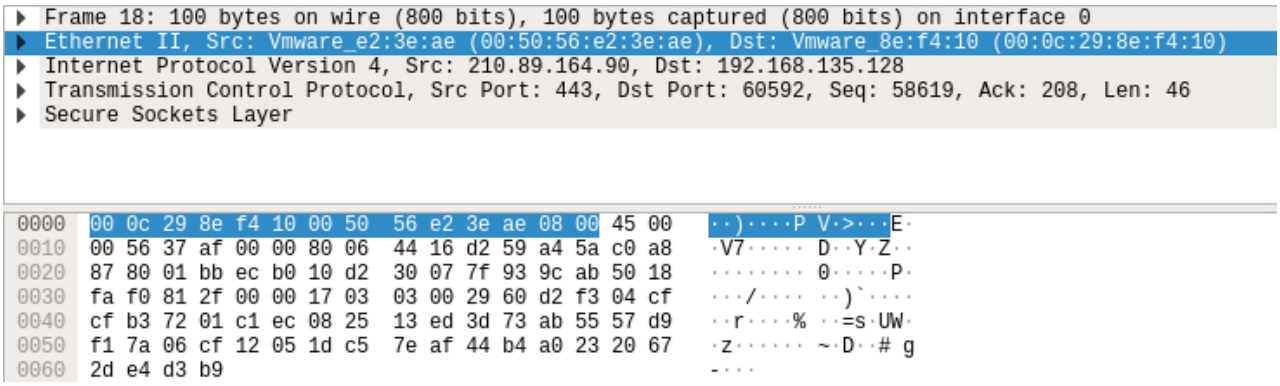
→ 210.89.164.90

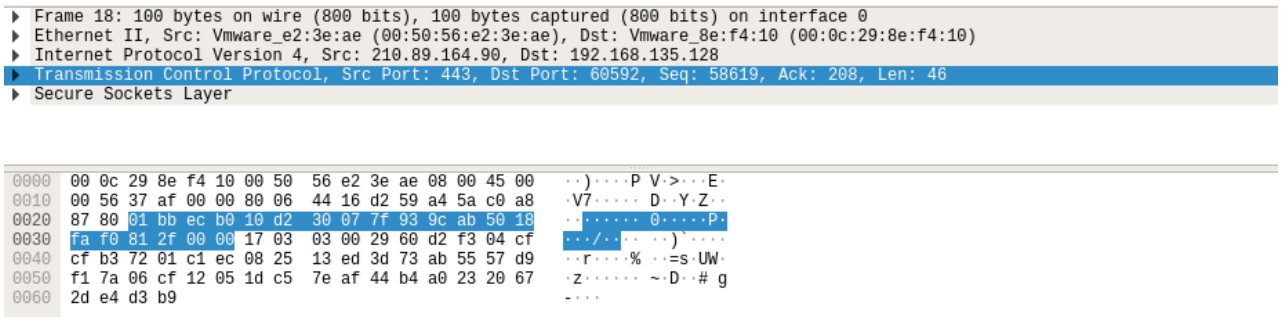
What is the destination IP address of the network-layer header in the frame?

→ 192.168.135.128

What is the total number of bytes in the whole frame? → 100bytes

What is the number of bytes in the Ethernet (data-link layer) header?→ 14



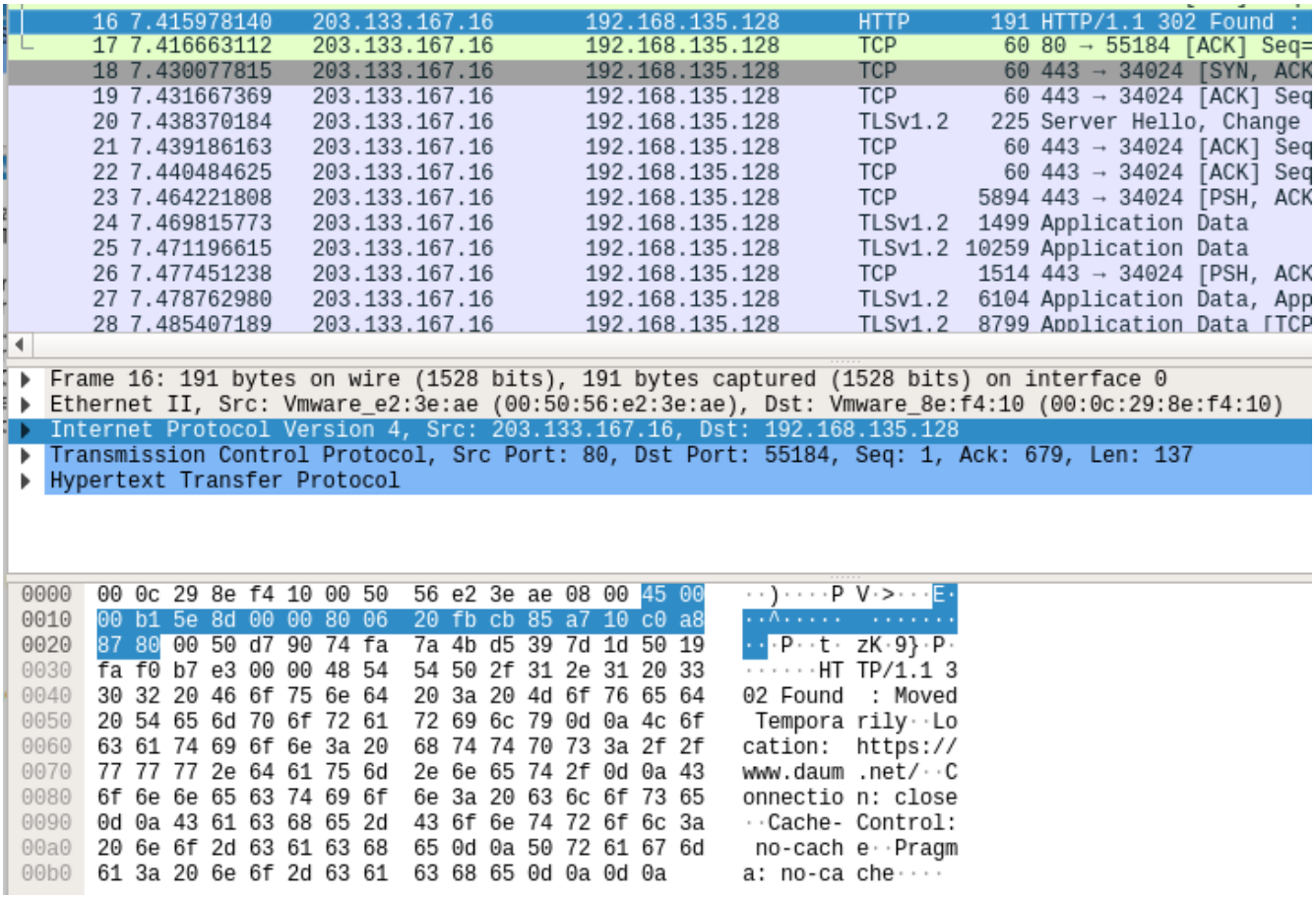


What is the number of bytes in the IP header?→ 20

What is the number of bytes in the TCP header? → 20

What is the total bytes in the message (at the application layer)? → 100-(14+20+20) = 46 bytes

3. daum.net



Is the frame an outgoing or an incoming frame? → incoming

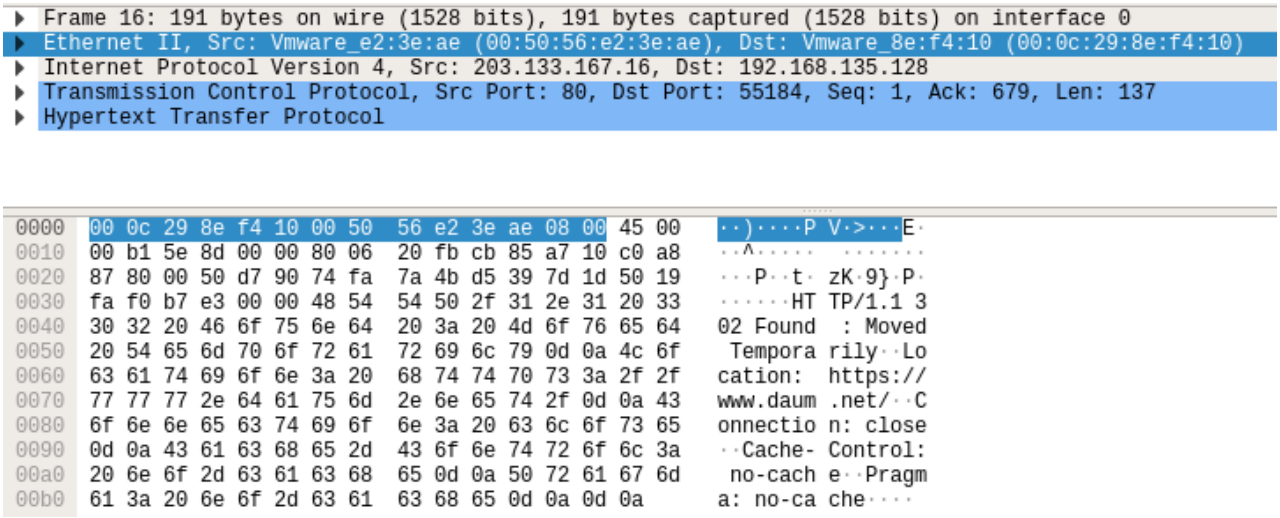
What is the source IP address of the network-layer header in the frame?

→ 203.133.167.16

What is the destination IP address of the network-layer header in the frame?

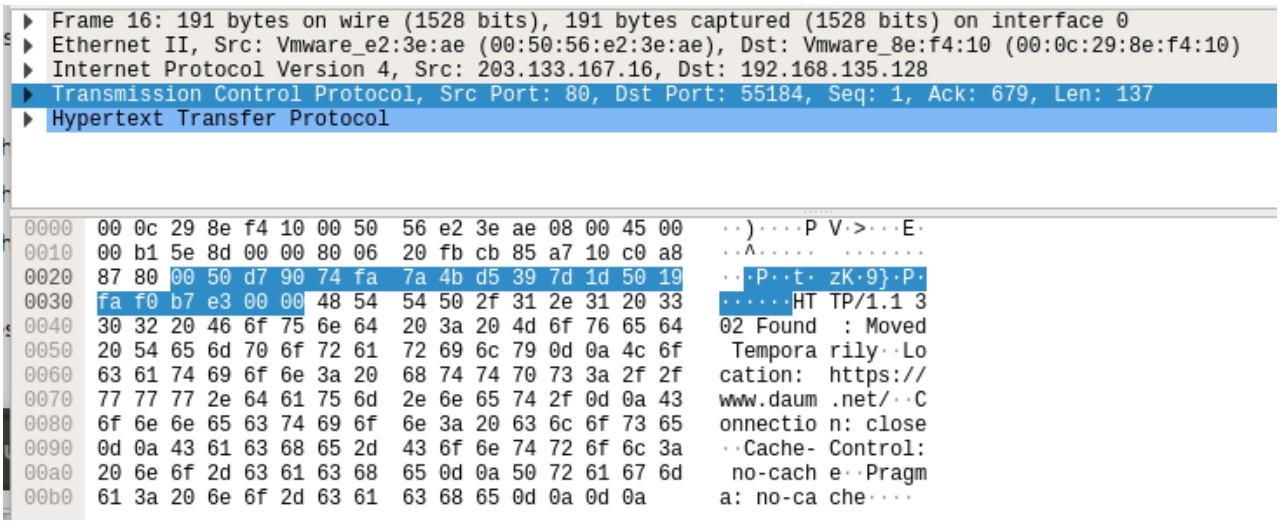
→ 192.168.135.128

What is the total number of bytes in the whole frame? → 191 bytes



What is the number of bytes in the Ethernet (data-link layer) header? → 14

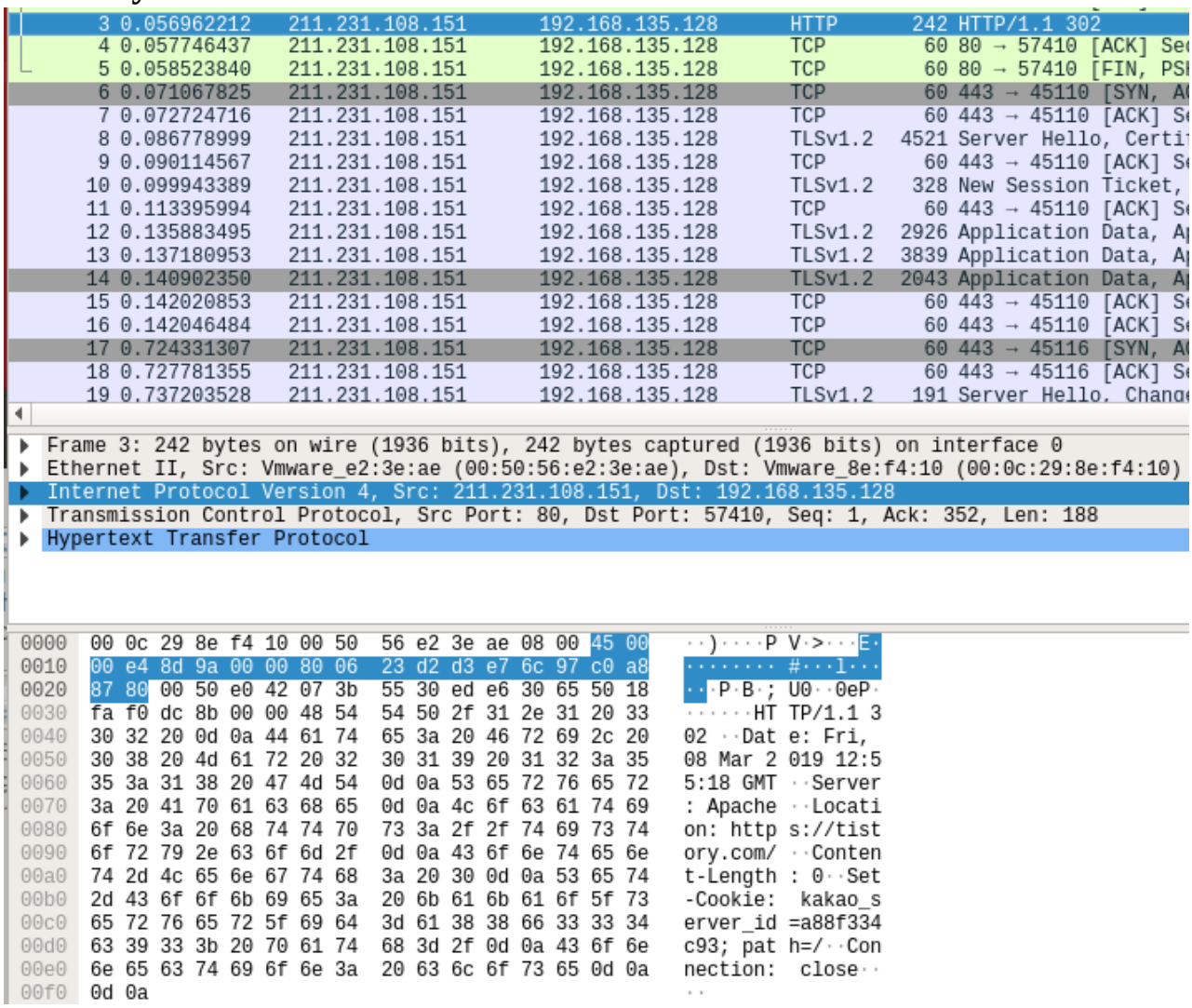
What is the number of bytes in the IP header? → 20



What is the number of bytes in the TCP header? ->20

What is the total bytes in the message (at the application layer)? 191-(14+20+20) = 137bytes

4. tisotry.com

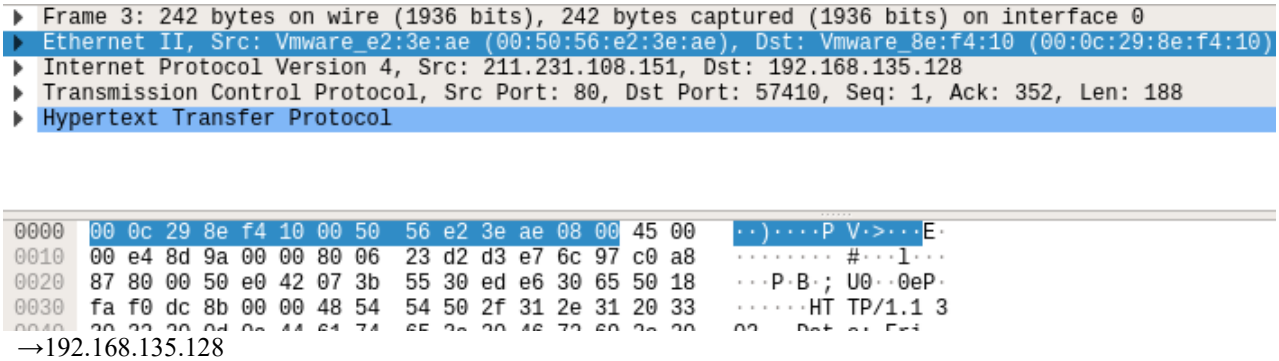


Is the frame an outgoing or an incoming frame? → incoming

What is the source IP address of the network-layer header in the frame?

→ 211.231.108.151

What is the destination IP address of the network-layer header in the frame?

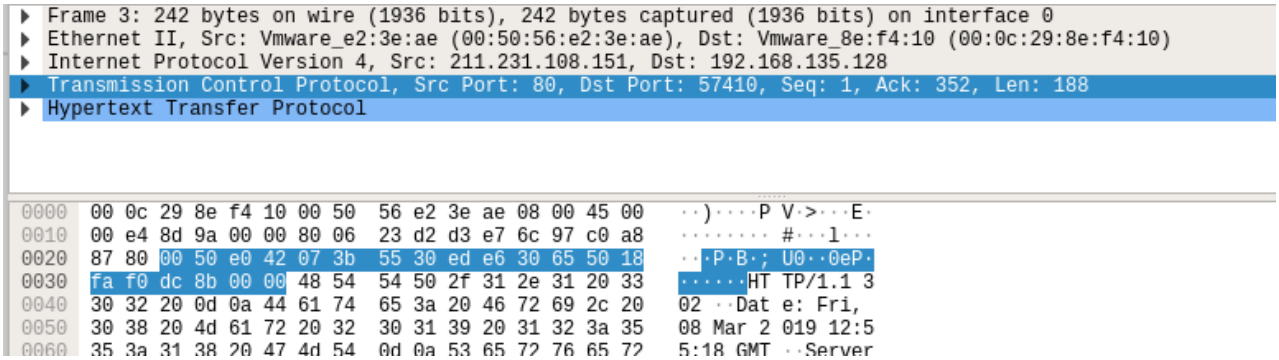


→192.168.135.128

What is the total number of bytes in the whole frame ? ->242bytes

What is the number of bytes in the Ethernet (data-link layer) header? → 14

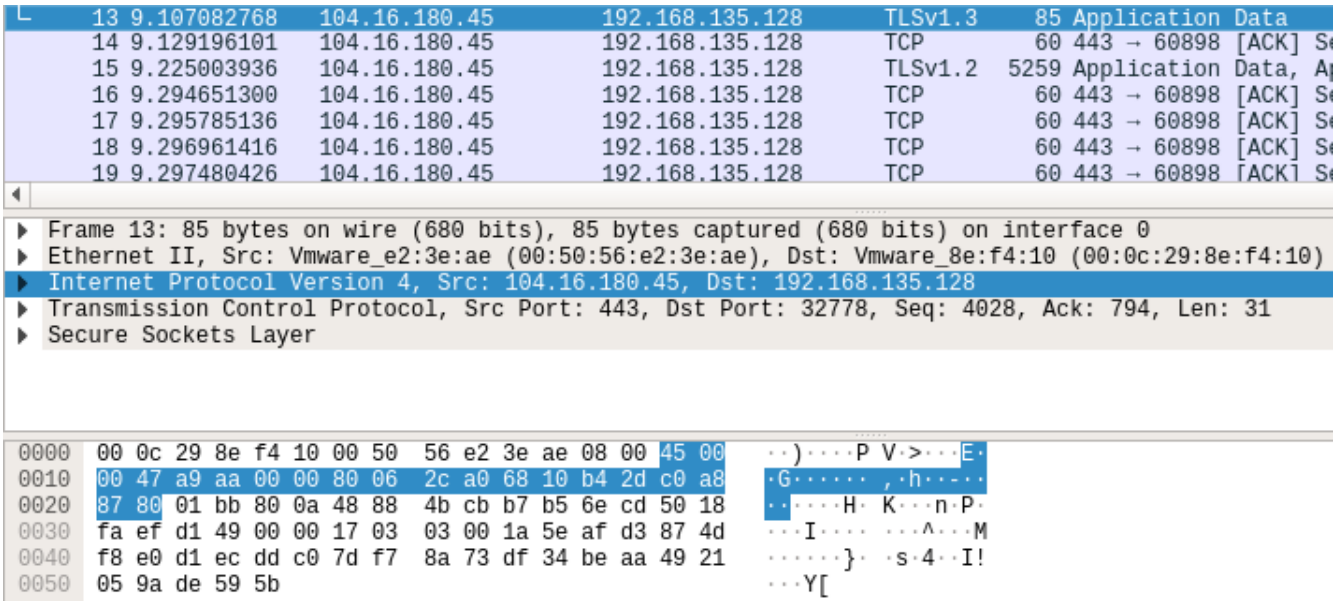
What is the number of bytes in the IP header? ->20



What is the number of bytes in the TCP header? ->20

What is the total bytes in the message (at the application layer)? ->242 - (14+20+20) = 188bytes

5. namu.wiki



Is the frame an outgoing or an incoming frame? incoming

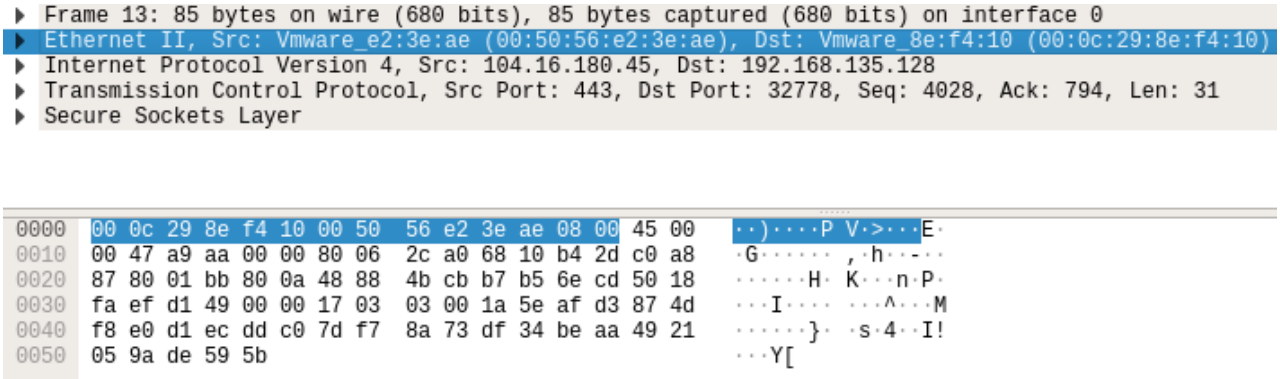
What is the source IP address of the network-layer header in the frame?

→ 104.16.180.45

What is the destination IP address of the network-layer header in the frame?

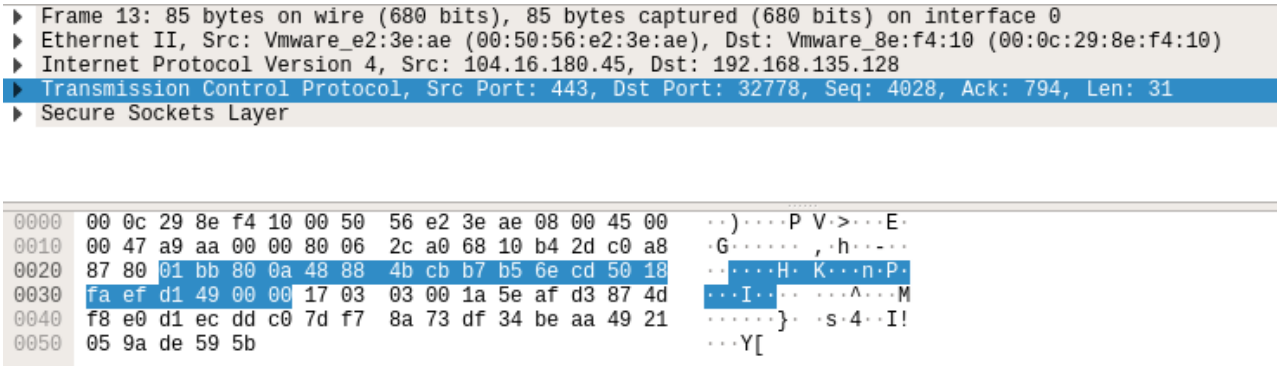
→ 192.168.135.128

What is the total number of bytes in the whole frame? → 85bytes



What is the number of bytes in the Ethernet (data-link layer) header? → 14

What is the number of bytes in the IP header ? → 20



What is the number of bytes in the TCP header? → 20

What is the total bytes in the message (at the application layer)? → 85-(14+20+20) = 31bytes

과제후기

이번과제는 WireShark의 기본적인 사용법을 익히는게 목표였던 것 같다. Ethernet Header, TCP header, IP headerd의 크기가 각각 14, 20, 20 바이트로 정해져 있는 것을 알게 되었다.