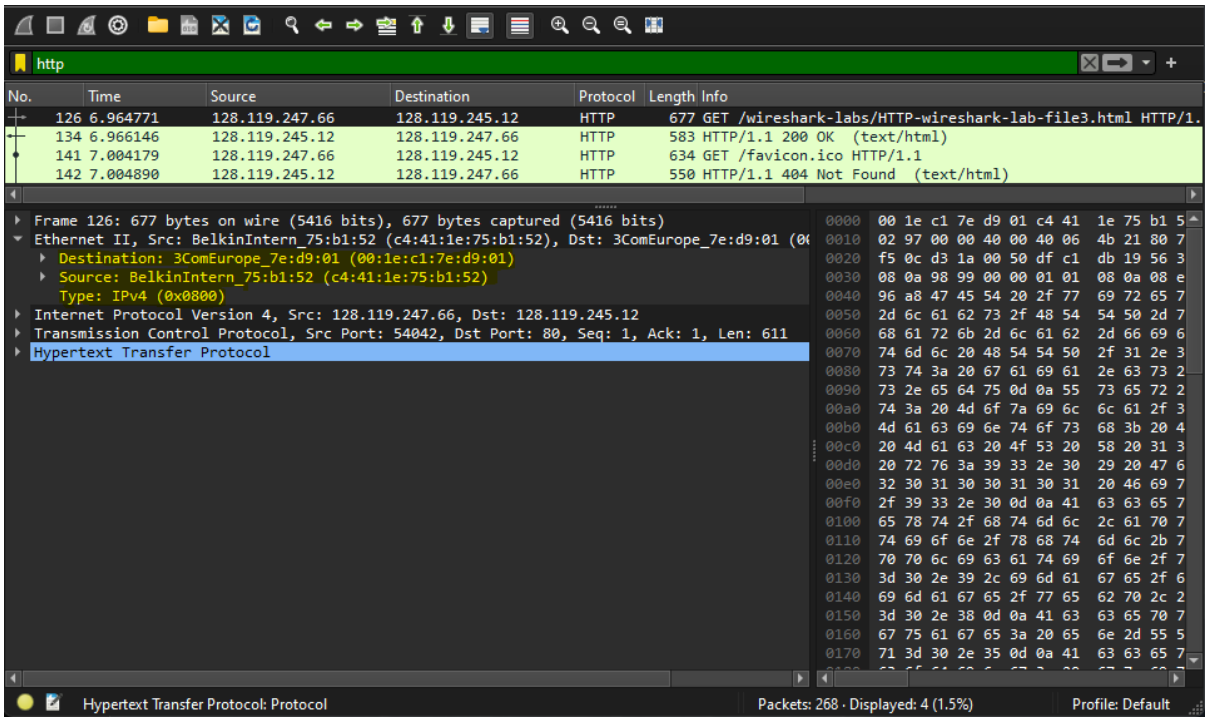
WSA7

2448025

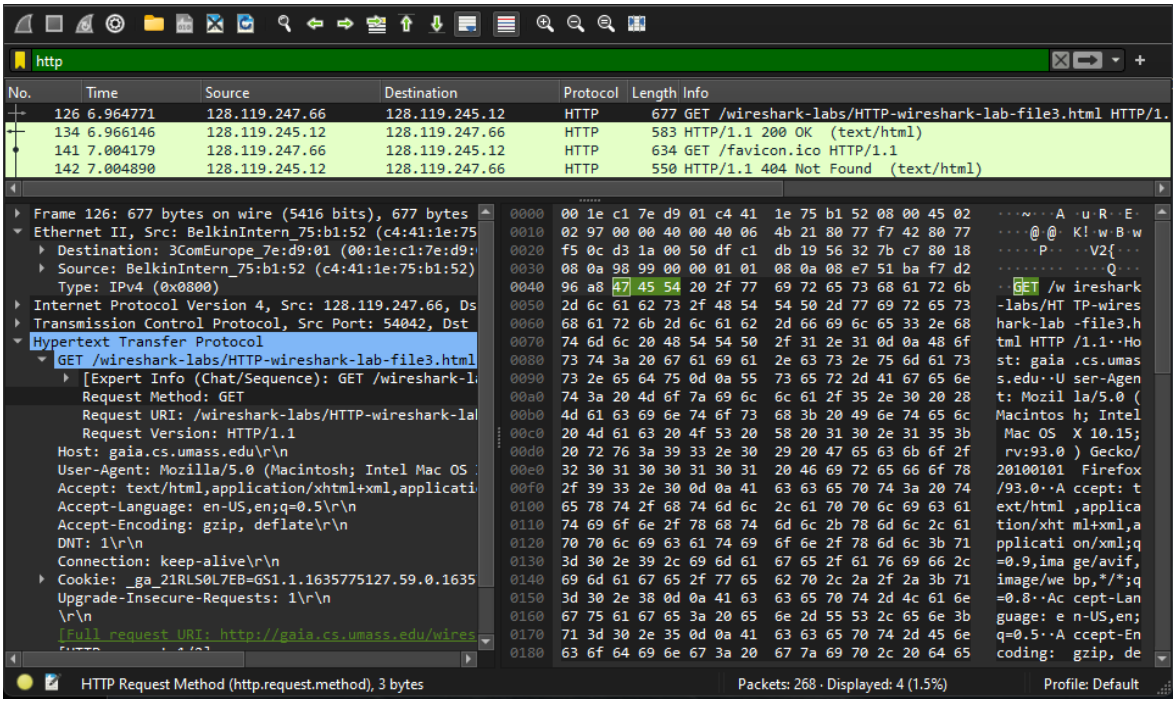
1. Source 48-bit Ethernet address: BelkinIntern_75:b1:52 (c4:41:1e:75:b1:52)

2. Destination 48-bit Ethernet address: 3ComEurope_7e:d9:01 (00:1e:c1:7e:d9:01)
   No, the destination address is not the Ethernet address of gaia.cs.umass.edu. It is the address of 3ComEurope router.

3. Hexadecimal Frame Type Value : 0x0800. This corresponds to IP protocol.



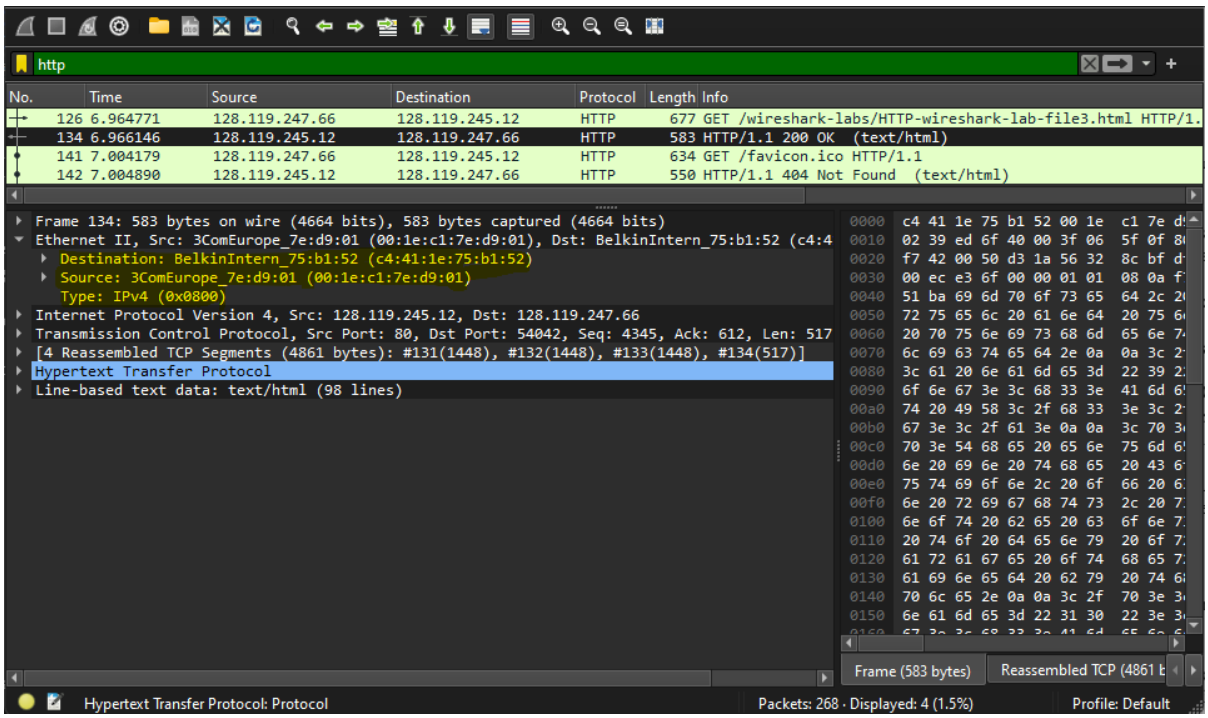
4. “G” appears 67 bytes from the beginning.



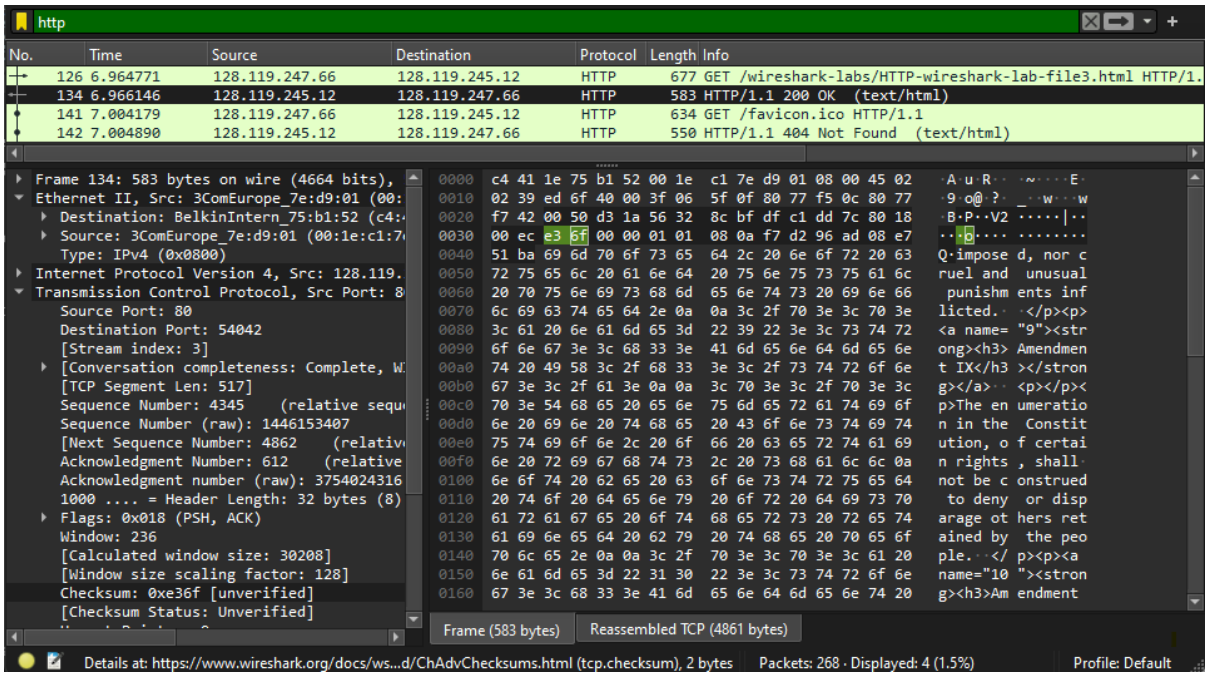
5. Source 48-bit Ethernet address of response: 3ComEurope_7e:d9:01 (00:1e:c1:7e:d9:01)
   No, source address is not the Ethernet address of gaia.cs.umass.edu and sending computer. It is the address of 3ComEurope Router.

6. Destination 48-bit Ethernet address of response: BelkinIntern_75:b1:52 (c4:41:1e:75:b1:52)
   This is the Ethernet address of sender.

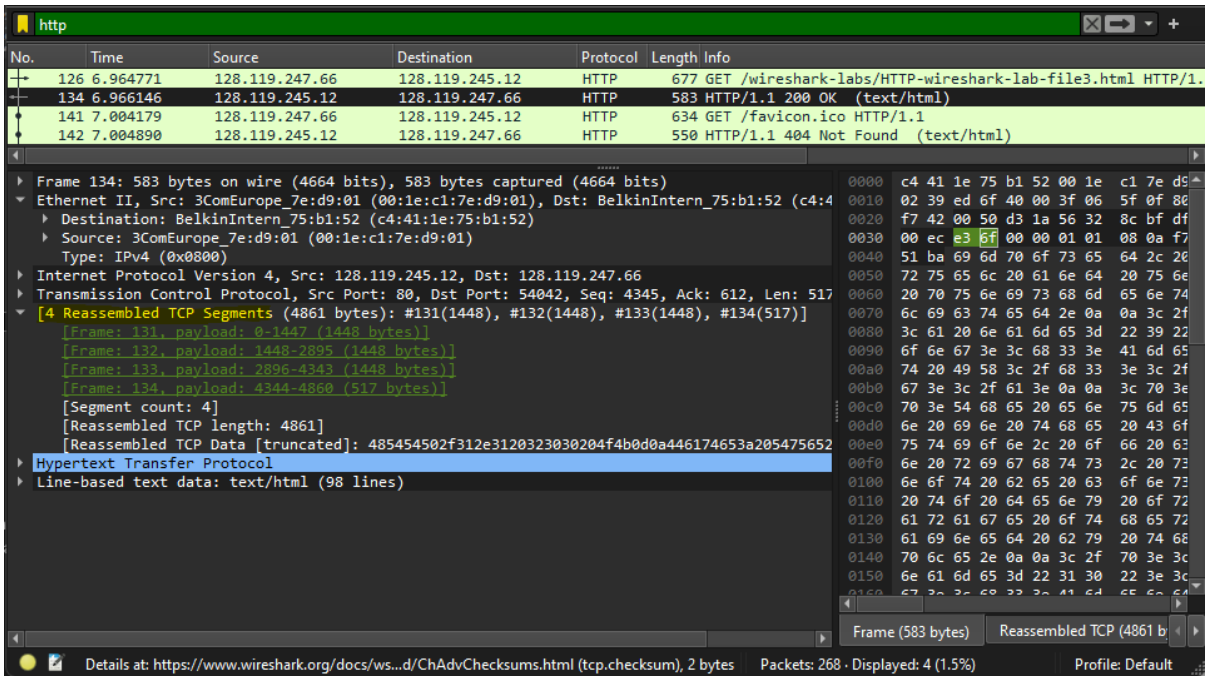
7. The hexadecimal Frame Type Value of response: 0x0800. This corresponds to IP protocol.



8. “o” appears 52 bytes from the beginning.



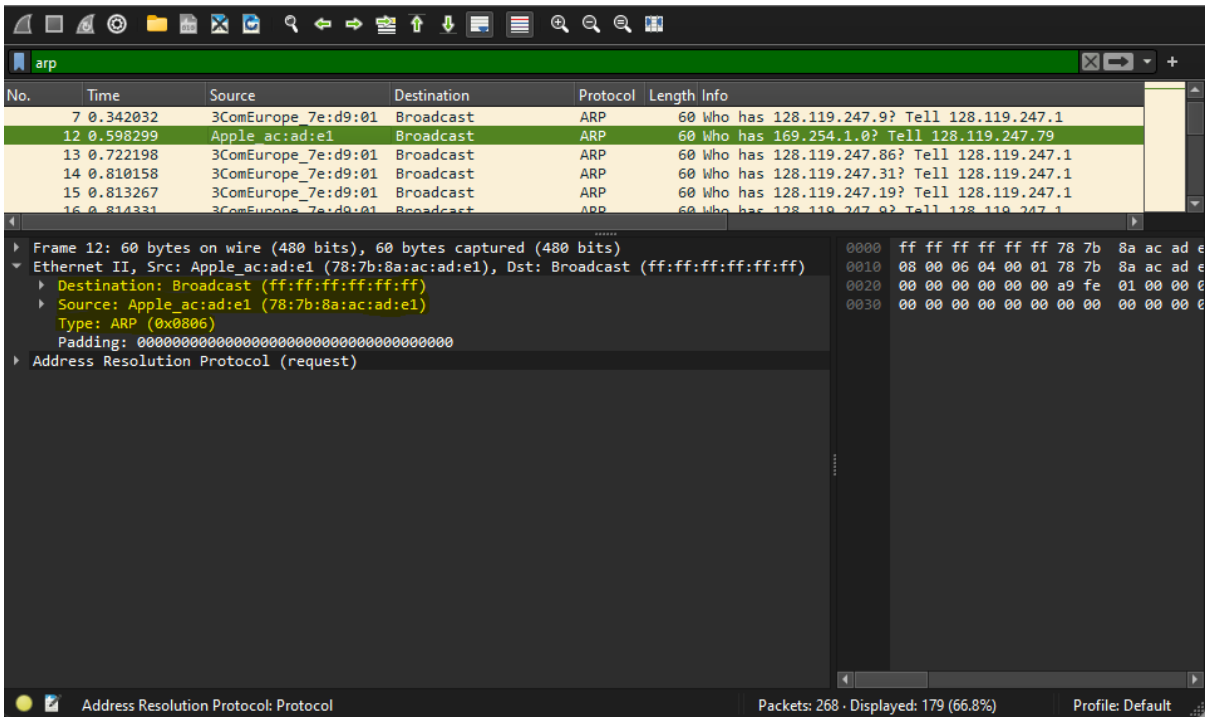
9. 4 Ethernet Frames carry the data for “OK” reply message.



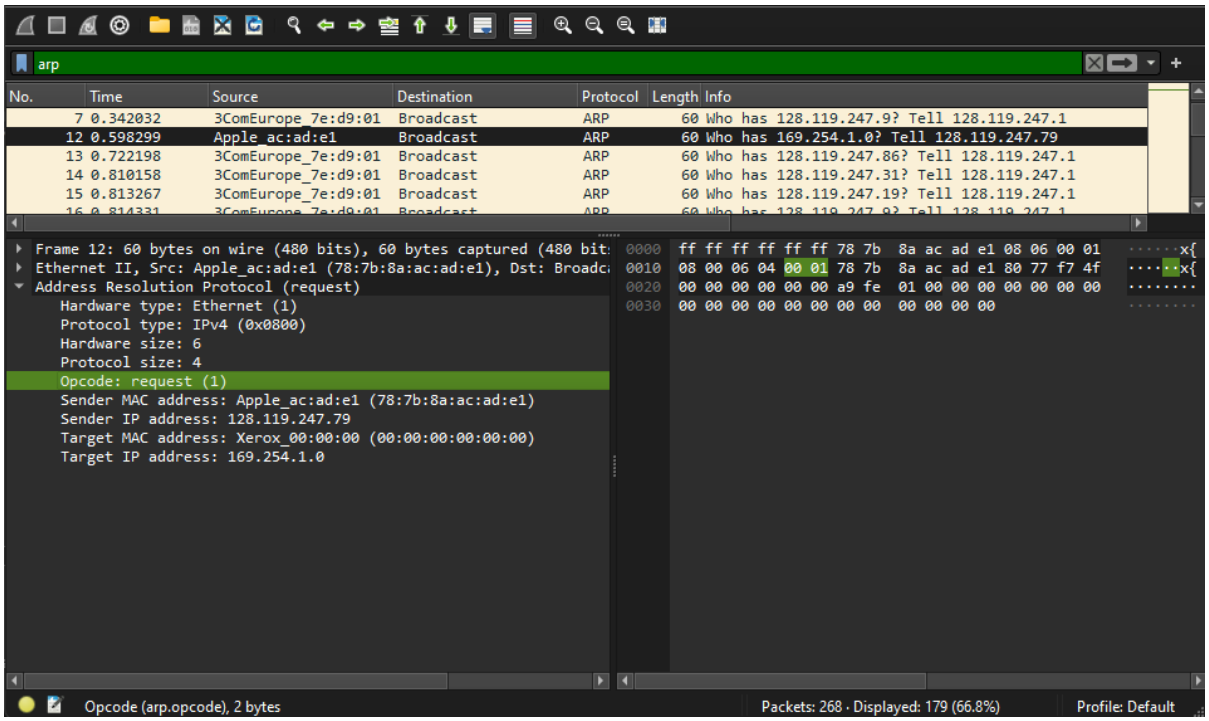
10. Source Address Hexadecimal Value: Apple_ac:ad:e1 (78:7b:8a:ac:ad:e1)

11. Destination Address Hexadecimal Value: Broadcast(ff:ff:ff:ff:ff:ff)

12. The hexadecimal Frame Type Value: 0x0806, for ARP.

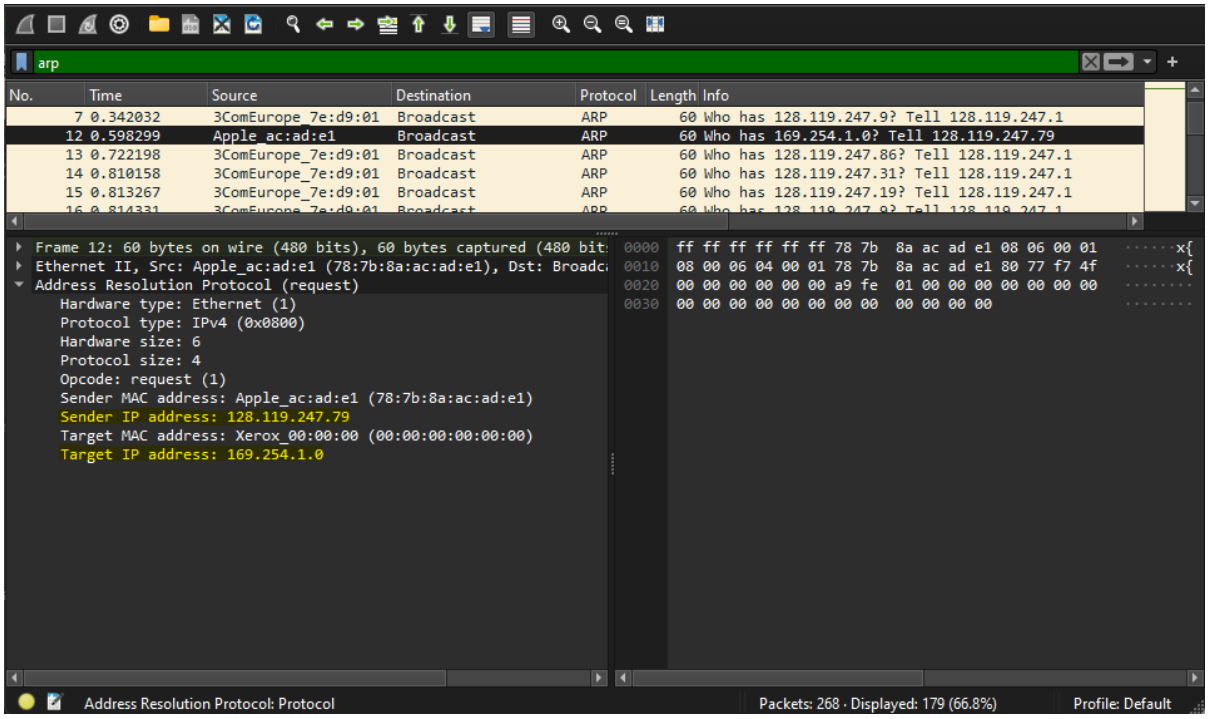


13. The ARP opcode field begins 21 bytes from the beginning.



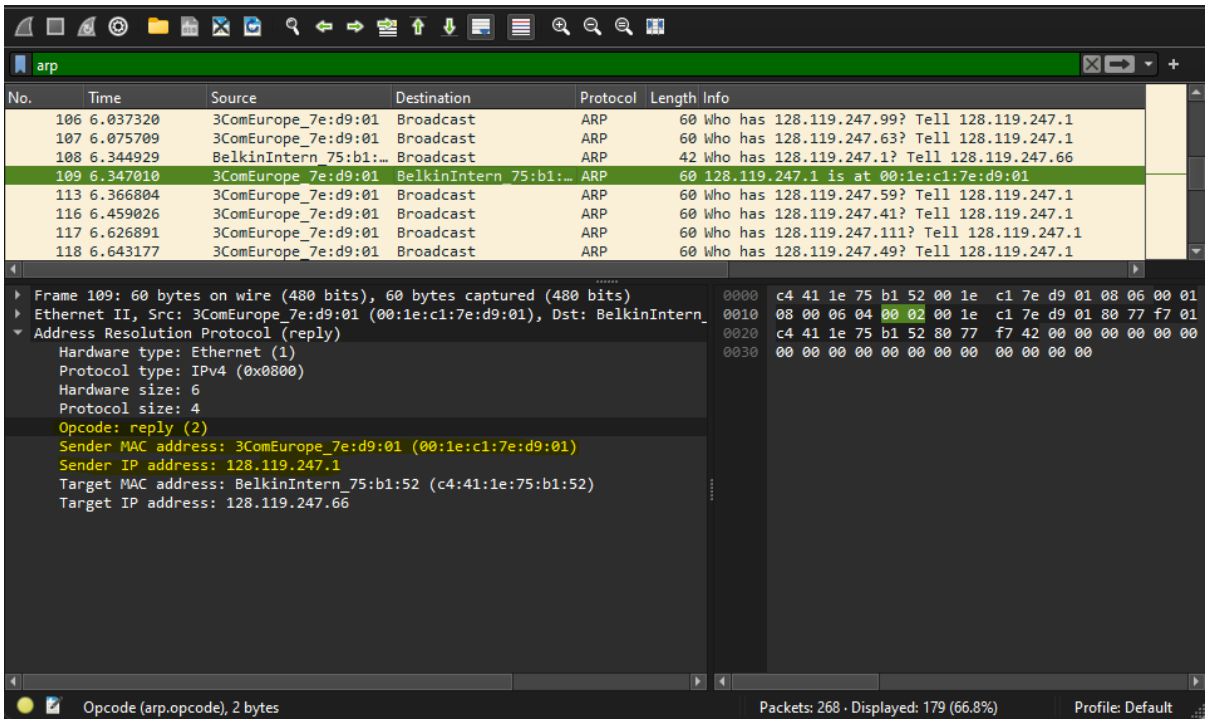
14. Yes, the sender IP address is : 128.119.247.79

15. The destination IP address is :169.254.1.0



16. The ARP opcode value of the reply is : reply (2)

17. The ARP request message by computer has
    Sender Ethernet Address: 3ComEurope_7e:d9:01 (00:1e:c1:7e:d9:01)



18. Since we are not at the machine that sent the request, there is no response in this trace. While the ARP reply is sent directly to the sender's Ethernet address, the ARP request is broadcast.