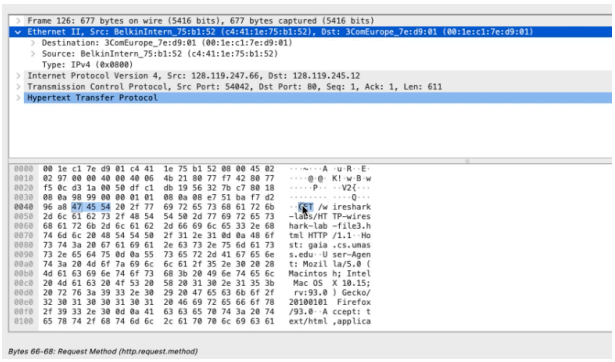
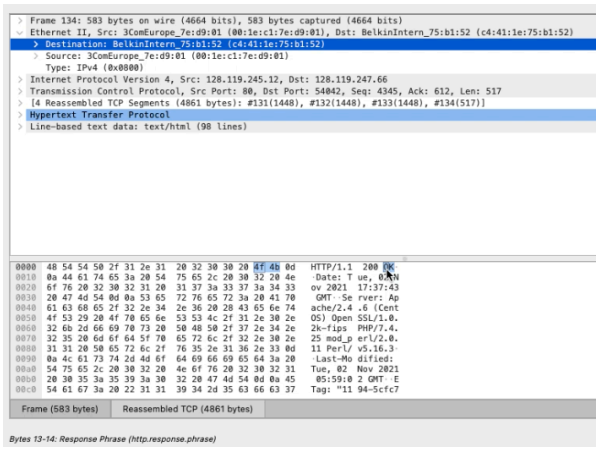
Wireshark Lab: Ethernet and ARP

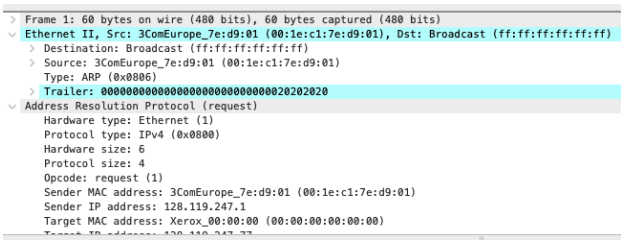
1- Source: c4:41:1e:75:b1:52
2- Destination: 00:1e:c1:7e:d9:01, it is is not the ethernet address of gaia.cs.umass.edu, it is the ethernet address of the link router or internet gateway address.
3- The hexadecimal value: 0x0800, upper layer protocol: IPv4
4- 65 bytes, where it appears in the screenshot



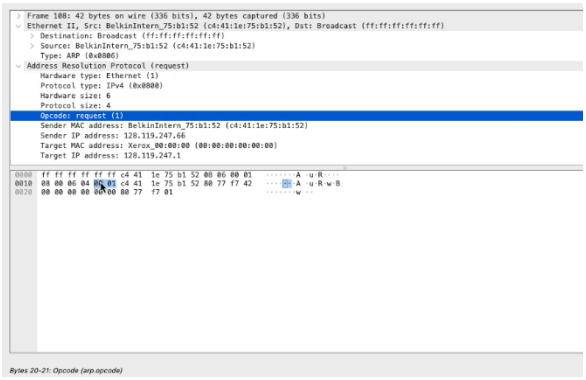
5- Source: 00:1e:c1:7e:d9:01, This address is not the address of the sending computer, or of gaia.cs.umass.edu, it is the ethernet address of the link router.
6- Destination: c4:41:1e:75:b1:52, it is the address of the sender request message.
7- The hexadecimal value: 0x0800, upper layer protocol: IPv4
8- 12 bytes, where it appears in the screenshot
9- one frame



10- Source: 00:1e:c1:7e:d9:01
11- Destination: ff:ff:ff:ff:ff:ff, which is broadcast
12- The hexadecimal value: 0x0806, upper layer protocol: ARP



13- 19 bytes, where it appears in the screenshot
14- Yes, Sender IP address: 128.119.247.66
15- Target IP address: 128.119.247.1



16- Opcode: reply (2)
17- Target IP address: 128.119.247.66
18- Because an ARP request is broadcast to all devices on a network, but the ARP reply is not, the reply will be sent directly to the computer that initiated the request.