

# Ethernet Lab

Erik Brakke

December 10, 2015

## Answers

1. 10:08:b1:c1:6b:ad
2. 10:c3:7b:43:62:39. No, this is the address of the router
3. 0x0800. This corresponds to IP
4. Byte number 67
5. 10:c3:7b:43:62:39. This is the address of the router
6. 10:08:b1:c1:6b:ad. Yes this is my computer
7. 0x0800. This is IP
8. Byte number 73
9. Address HWtype HWaddress Flags Mask Iface  
router.asus.com ether 10:c3:7b:43:62:39 C wlan0  
Chromecast ether a4:77:33:02:2d:d8 C wlan0
10. The source is 10:08:b1:c1:6b:ad and the destination is ff:ff:ff:ff:ff:ff
11. The value is 0x0806 which is ARP
12. It starts 20 bytes in. The value is 1. The ARP message does contain the IP address of the sender. This 'question', the MAC of the queried IP, appears 33 bytes into the message
13. It appears 20 bytes in. The value is 2 (reply). The reply appears 33 bytes in. 192.168.1.1 is at 10:c3:7b:43:62:39
14. The source is 10:c3:7b:43:62:39, the destination is 10:08:b1:c1:6b:ad
15. It is possible that no one knows the answer to this request, or the wireshark capture was cut short before a response was given.

---

## References

None