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Ethernet and ARP lab

1. c4:41:1e:75:b1:52
2. 00:1e:c1:7e:d9:01
3. 0x0800 IPV4
4. Begins on the 67th Bit

5. 00:1e:c1:7e:d9:01. No. It is the mac address of my router.
6. c4:41:1e:75:b1:52. Yes
7. 0x0800 IPV4
8. Starts on the 14th bit
9. 4

10. 1
11. Show mappings of internet addresses to physical addresses

12. 00:1e:c1:7e:d9:01
13. ff:ff:ff:ff:ff:ff This address indicates that the message is a broadcast message. It does not correspond to a single device.
14. 0x0806 ARP
15. Begins on the 15th byte
16. 0001
17. Yes. 128.119.247.1
18. 128.119.247.77

19. 0002
20. 00:1e:c1:7e:d9:01

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▶ Frame 109: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface en9, id 0          0000  c4 41 1e 75 b1 52 00 1e  c1 7e d9 01 08 06 00 01    ·A·u·R·· ·~······
▼ Ethernet II, Src: 3ComEuro_7e:d9:01 (00:1e:c1:7e:d9:01), Dst: BelkinIn_75:b1:52 (c4:41:1e:75:b1:52)   0010  08 00 06 04 00 02 00 1e  c1 7e d9 01 80 77 f7 01    ········ ·~···w··
    ▶ Destination: BelkinIn_75:b1:52 (c4:41:1e:75:b1:52)                                                 0020  c4 41 1e 75 b1 52 80 77  f7 42 00 00 00 00 00 00    ·A·u·R·w ·B······
    ▶ Source: 3ComEuro_7e:d9:01 (00:1e:c1:7e:d9:01)                                                      0030  00 00 00 00 00 00 00 00  00 00 00 00
      Type: ARP (0x0806)
      Padding: 000000000000000000000000000000000000
▼ Address Resolution Protocol (reply)
      Hardware type: Ethernet (1)
      Protocol type: IPv4 (0x0800)
      Hardware size: 6
      Protocol size: 4
      Opcode: reply (2)
      Sender MAC address: 3ComEuro_7e:d9:01 (00:1e:c1:7e:d9:01)
      Sender IP address: 128.119.247.1
      Target MAC address: BelkinIn_75:b1:52 (c4:41:1e:75:b1:52)
      Target IP address: 128.119.247.66
```

21. These are broadcast messages. The response was sent back to the appropriate device, not my device.