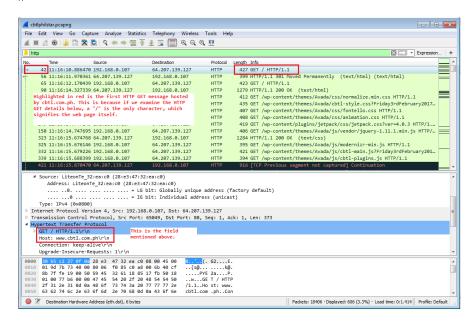
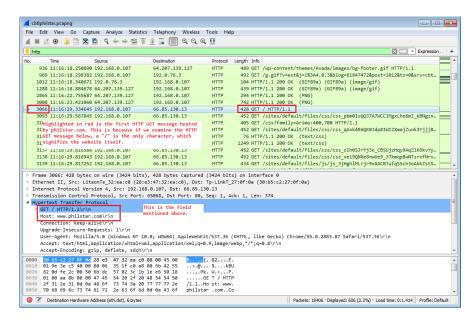
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CS145 Lab Exercise 2: Wireshark Lab - Layer 2 Addresses

1. Packet #42



2. Packet #3066



3. **Source Address:** LiteonTe_32:ea:c0 (28:e3:47:32:ea:c0) **Destination Address:** Tp-LinkT_27:0f:0a (30:b5:c2:27:0f:0a)

```
| Frame 42: 4Packet 42: cbtl.com.ph ts), 427 bytes captured (3416 bits) on interface 0
| Ethernet II, Src: LiteonTe_32:eas:0 (28:e3:47:32:eas:0), Dst: Tp-LinKT_27:0f:0a (30:b5:c2:27:0f:0a)
| Destination: Tp-LinKT_27:0f:0a (30:b5:c2:27:0f:0a)
| Address: Tp-LinKT_27:0f:0a (30:b5:c2:27:0f:0a)
| Address: Tp-LinKT_27:0f:0a (30:b5:c2:27:0f:0a)
| Address: Tp-LinKT_27:0f:0a (30:b5:c2:27:0f:0a)
| Address: LinkT_27:0f:0a (30:b5:c2:27:0f:0a)
| Address: LinkT_27:0f:0a (30:b5:c2:27:0f:0a)
| Address: LiteonTe_32:eas:0 (28:e3:47:32:eas:0)
| Address: LiteonTe_32:eas:0 (28:e3:47:32:eas:
```

4. **Source Address:** LiteonTe_32:ea:c0 (28:e3:47:32:ea:c0) **Destination Address:** Tp-LinkT_27:0f:0a (30:b5:c2:27:0f:0a)

```
| Frame 3066: 428 Packet 3066: philstar.com, 428 bytes captured (3424 bits) on interface 0
| Ethernet II, Src: Liteonie 32:eaic@(128:e3:47:32:eaic@), Dst: Tp-LinkT_27:0f:0a (30:b5:c2:27:0f:0a)
| Destination: Tp-LinkT_27:0f:0a (30:b5:c2:27:0f:0a) | Destination Address: Tp-LinkT_27:0f:0a (30:b5:c2:27:0f:0a) | Destination Address: Tp-LinkT_27:0f:0a (30:b5:c2:27:0f:0a) | Destination Address (abits (30:b5:c2:27:0f:0a) | Destination Address (40:b5:c2:27:0f:0a) | Destination Address (40:b5:c2:2
```

- 5. The source address signifies the MAC Address of the terminal which allows it to conenct to a network.
- 6. The destination address signifies the MAC Address of the DNS Server that allows the terminal to connect to the Internet. Since the two websites have the same MAC Address, they are hosted by the same server.
- 7. The two addresses are the same which makes sense considering that the source is coming from the same computer terminal, having a single and unique MAC Address.
- 8. The two addresses are the same. It makes sense because a single server hosts the two websites despite having two different IP Addresses.
- 9. **ifconifg** stands for "interface configuration" (equiv. **ipconfig**, "internet protocol configuration"). It is used to view and change the configuration of the system's network interfaces. ¹

If we consider the terminal's output for **ifconfig**, the values are not consistent with that of the values in the packet trace. This is because the trace was not generated in the same terminal as the one where **ifconfig** is performed.

¹http://www.computerhope.com/unix/uifconfi.htm

```
    Frame 42: 427 bytes on wire (3416 bits), 427 bytes captured (3416 bits) on interface 0

# Ethernet II, Src: LiteonTe_32:ea:c0 (28:e3:47:32:ea:c0), Dst: Tp-LinkT_27:0f:0a (30:b5:c2:27:0f:0a)

# Destination: Tp-LinkT_27:0f:0a (30:b5:c2:27:0f:0a)

# Address: Tp-LinkT_27:0f:0a (30:b5:c2:27:0f:0a)

# Address: Tp-LinkT_27:0f:0a (30:b5:c2:27:0f:0a)

# Light individual address (factory default)

# Source: LiteonTe_32:ea:c0 (28:e3:47:32:ea:c0)

# Address: LiteonTe_32:ea:c0 (28:e3:47:32:ea:c0)

# Address: LiteonTe_32:ea:c0 (28:e3:47:32:ea:c0)

# Address: LiteonTe_32:ea:c0 (28:e3:47:32:ea:c0)

# LiteonTe_32:ea:c0 (28:e3:47:32:ea:c0)

# LiteonTe_32:ea:c0 (28:e3:47:32:ea:c0)

# Destination: Tp-LinkT_27:0f:0a (30:b5:c2:27:0f:0a)

# LiteonTe_32:ea:c0 (28:e3:47:32:ea:c0)

# LiteonTe_32:ea:c0 (28:e3:47:32:ea:c0
```