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Solutions

Problem 4.2

- a. All above Layer 2
- b.
 - 1. Not shown in wireshark dumps
 - 2. ARP
 - 3. IPv4
 - 4. TCP, UDP
 - >4. DNS, TLS
- c.
 - MAC - e8:94:f6:06:27:95
 - IP - 192.168.1.218
 - Gateway - 192.168.1.1
 - DNS - 192.168.1.1
- d. IP version - 4

Listening port - 8443, 57821. Filter: ip.dst == 192.168.1.218

SSL Certificate - Yes! Domain: webserv.ps.tu-darmstadt.de
Filter: ssl.handshake.certificate

IPs - 84.72.44.30
- 130.83.7.207
- 85.2.4.225
Filter: ip.dst == 192.168.1.218 and tcp.port == 8443

Typically packet count : 8

Typically communication pattern on port 8443:

- First 3 packets: SYN, [SYN, ACK], ACK form TCP connection handshake
- Packets 4, 6 are data from Clients and 5, 7 are ACKs from server
- Packet 8 is a connection tear down request by client.