

COMP 9121 Week 10 Lab

1. Wireshark DNS

1.1. Open dns_tut1.pcap. This is a DNS lookup from a computer in a home. Answer the following questions:

- Which one is the name server here? *192.168.178.1*
- How is the client doing the lookup? Is this a recursive query? How do you know? *yes*
- What is queried here? Give resource record and domain name. *independent.ie*
- Does the server support recursive queries? How do you know? *yes*
- Was the reply received from a server that is authoritative for the zone? *No*

1.2. Open dns_tut2.pcap. This is another query, within the same setting.

- What is being queried? *www.independent.ie*
- Explain the reply to the query, based on the two types of received records! How many 'A results' are received? *8*
- Investigate more closely: what is Cloudfront (Google it)? What kind of hosting of the web server is this?

1.3 Open dns_tut3.pcap. Then answer:

- What happened here? *query or domain does not exist*

2. Wireshark HTTP

1. Open http_tut1.pcap. Then answer:

- What site is being accessed?
- Does the site set a cookie? How many? How do you know?
- What browser was used? How do you know?
- What does the first HTTP response code mean?
- Is there a failed HTTP request? What did you look for?
- Why is there more than one HTTP GET? How are elements of the website loaded?
- Is non-persistent or persistent HTTP used?
- Why are there so many TCP connections?

→ 大家的回答

→ connection: keep-alive persistent

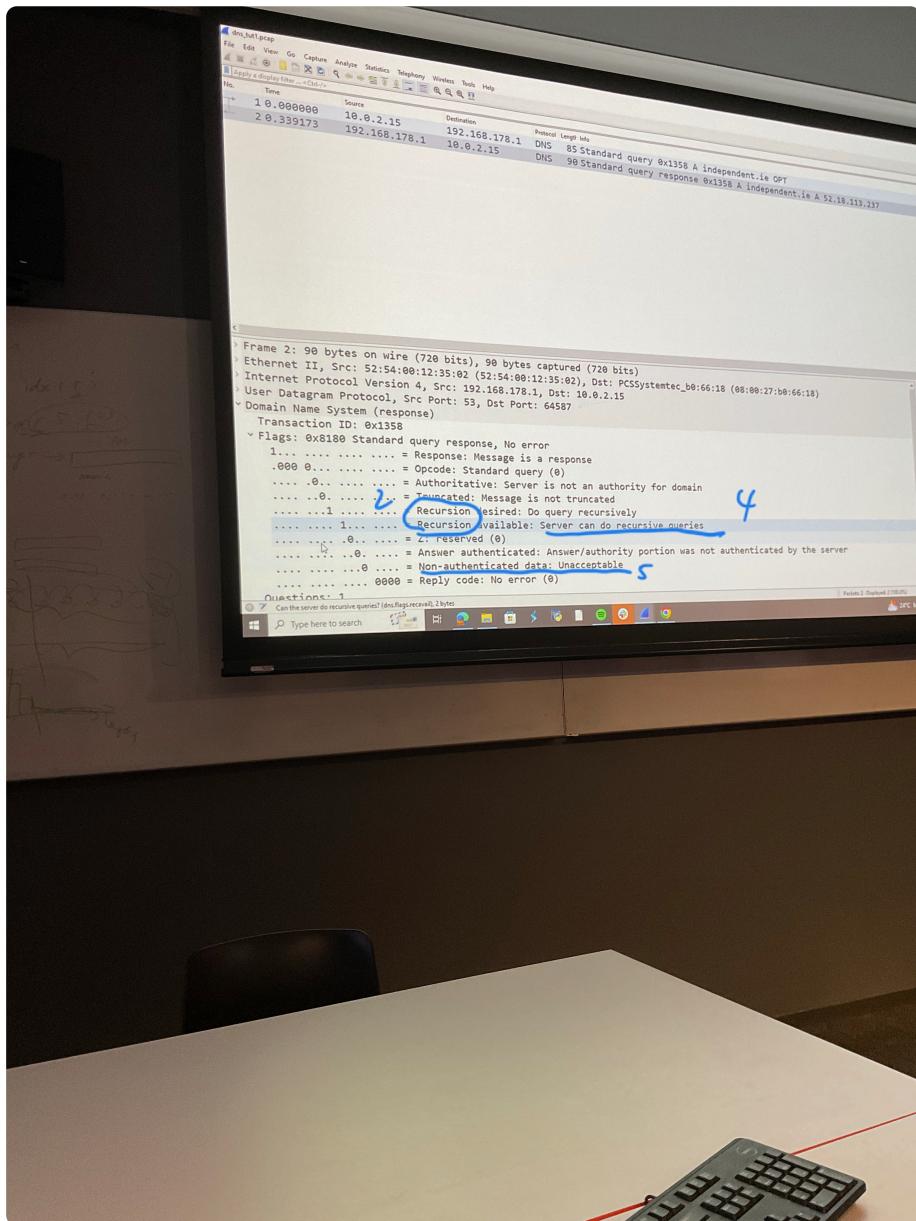
2. Did you ever wonder how sites such as Ebay 'recognise' you and have the items in your shopping cart ready for you to order? Open http_tut2.pcap. **This capture was taken after closing and then opening the browser again, and then surfing to the site.** Answer:

- How is the server able to recognise the browser? Give the frame that contains the solution and explain. *cookies*
- Can the server distinguish between different people using the same browser?

1.1

(2)

(4)



1.2

