# e2264653-report

by ismail sahin

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## HTTP & DNS

## Q1)

No.	Tine	Source	Destination	Protocal	Lergth Info
	4 0.209097	192.168.43.200	192.168.43.1	DNS	76 Standard query 0x4a91 A ceng.metu.edu.tr
	7 0.310138	192.168.43.1	192.168.43.200	DNS	218 Standard query response 0x4a91 A ceng.metu.edu.tr A 144.122.145.146 NS ns03.ceng.metu.edu.tr NS ns04.ceng.metu.edu.tr A 144.122.171.93 A 144.122.17.
	26 0.906311	192.168.43.200	192.168.43.1	DNS	76 Standard query 0x7db0 A ceng.metu.edu.tr
	29 0.912913	192.168.43.1	192.168.43.200	DNS	92 Standard query response @x7db0 A ceng.metu.edu.tr A 144.122.145.146

2 queries were sent from your computer to the DNS server.

Q2)

The destination address is 192.168.43.1.

Bonus)

We use DNS server to find server address and if it was cached, we do not use that anymore we can use http get request to get web paces so it was not cached.

## Q3)

_					
No.	Time	Source	Destination	Protocol	Length Info
3414720	3 0.206355	192.168.43.200	192.168.43.1	DNS	81 Standard query @xaab6 A suggest.yandex.com.tr
40	4 0.209097	192.168.43.200	192.168.43.1	DNS	76 Standard query @x4a91 A ceng.metu.edu.tr
	5 0.242216	192.168.43.1	192.168.43.200	DNS	370 Standard query response 0xaab6 A suggest.yandex.com.tr CMAME suggest.yandex.net A 213.180.204.63 NS ns2.yandex.met NS ns1.yandex.net NS ns9.

The first request No:4 and first response is No:7.

The first request is to find out IP addresses of domain name and it is send by UDP protocol to DNS server. HTTP get request is for getting web pages or contents from web server and this works on TCP protocol.

Q4)

No. Beucause, cookies are created to identify you when you visit a new website. We entered first time to that site so there is no cookie sent with this request.

Q5)

a)

A user agent string of browsers helps to identify that which browser, what version are being used and on which operating system is the browser.

b)

Yes, it includes the browser I am using. (Microsoft Edge).

Yes other browsers are mentioned. Because of history of user agents and browsers. Some servers tend to be see some words as Mozilla to send all supported frames and modern web pages. So some other bwowrsers are mentioned.

#### HTTPS & TLS

## Q1)

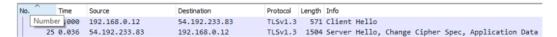
First successful request and response nos are 13 and 30.

No. ^		Time	Source	Destination	Protocol	Length	Info
г	3	0.000	192.168.0.12	34.107.221.82	TCP	66	53398 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
	11	0.058	34.107.221.82	192.168.0.12	TCP	66	80 + 53398 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1430 SACK_PERM=1 WS=256
	12	0.000	192.168.0.12	34.107.221.82	TCP	54	53398 → 80 [ACK] Seq=1 Ack=1 Win=131328 Len=0
-	13	0.000	192.168.0.12	34.107.221.82	HTTP	373	GET /success.txt HTTP/1.1
	29	0.061	34.107.221.82	192.168.0.12	TCP	60	80 → 53398 [ACK] Seq=1 Ack=320 Win=66816 Len=0
4-	30	0.004	34.107.221.82	192.168.0.12	HTTP	274	HTTP/1.1 200 OK (text/plain)

When I edit time configurations in milliseconds;

I see that there is 0.04 ms that so, there is 0.00004 second between first request and response.

## Q2)



In the info part of request and response, text written in that box is above. From that we can understand that they are in the first part of comminication, such as getting know each other.

# Q3)

13 "hello" message sent by client and 13 "hello" message sent by server. First messages cannot be reached or maybe it is not answered. So new hello messaje can be send. When connection is lost it can be send again to reconnect to server by new hello message.