

SHOFFIQU
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1) ~~Source IP: Web Server's IP~~ ~~mac~~
~~Destination IP: R1's IP~~ ~~mac~~

Ans of Ques: ~~Source Mac (at R1)~~: R1's MAC on the $R_3 \rightarrow R_1$ interface.
~~Destination Mac (at R3)~~: R1's MAC on the $R_1 \leftarrow R_3$ interface.

* Ports one Transport layer address
for IPSTN Network layer
* MAC are DataLink layer and change & hop to hop.

- 2) i) Upload new assignment \rightarrow POST
ii) Update previous submitted one \rightarrow PUT / PATCH
iii) HEAD - It's name on GET. But no body, only
headers to confirm the existence.

Q3) As we know, Cookies can do Authorization and we for the recommendation, they can use cookie.

Ans:
But it can leakage data via third party cookie.
To prevent this, They can block Third party cookie, clear cookies regularly.

mobile browser prevent user access &

Q4) Because it's using HTTP, not HTTPS.
and it's not secured so it's leaked user data.

HTTPS → It's combination including, SSL/TLS + HTTP
SSL/TLS is used for https. TLS uses session key - MAC + H(C)
TLS includes both confidences of webcast

- 5) Two TCP header fields that will be used here,
- ① PSH flag: It doesn't wait to fill buffers.
 - ② URG flag: Receiver prioritizes it in own.

c) TCP slowdown when the utilization is close to capacity - And its 91% there. And no priority given for some requests.

7) ~~i) Single RTT =~~

$$\cancel{RTT} = 850 - 50 = (1+24) \text{ RTT}$$

$$RTT = 32 \text{ ms (Avg)}$$

$$\text{ii) FTT} = \frac{5 \times 6 \times 7}{200} + \frac{19 \times 2 \times 8}{200}$$

$$= 2.72 \text{ s} = 2720 \text{ ms}$$

Avg

8)

i) Seq number : client ISN+1 = 5679

Ack n : 2961

ii)

Advertised window = 10000 bytes

After receiving S₁ (786 bytes),

Unacknowledged data = 786

So Remaining window = 10000 - 786

$$= 9214 \text{ bytes}$$

Ack-1 RWND = 9214 bytes.

iii) After retransmitting S₂

S₁, S₂, S₃ are now acknowledged.

So, S_f = 0 (all acknowledged)