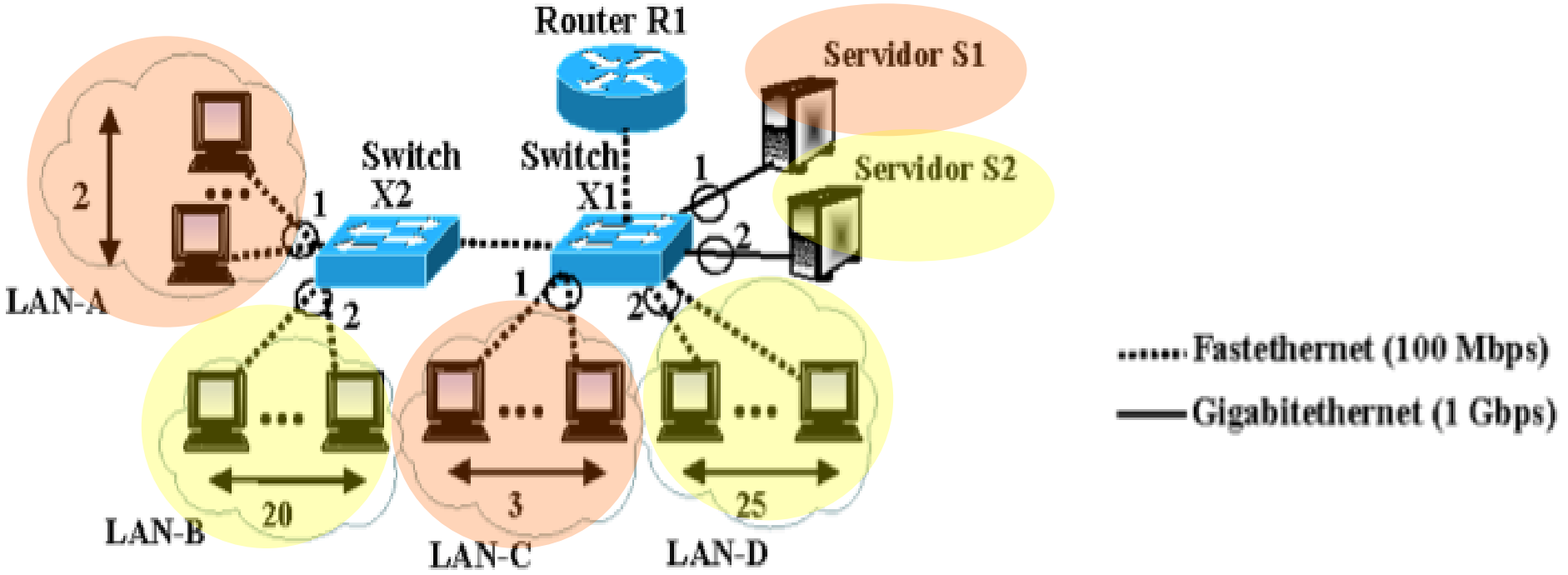
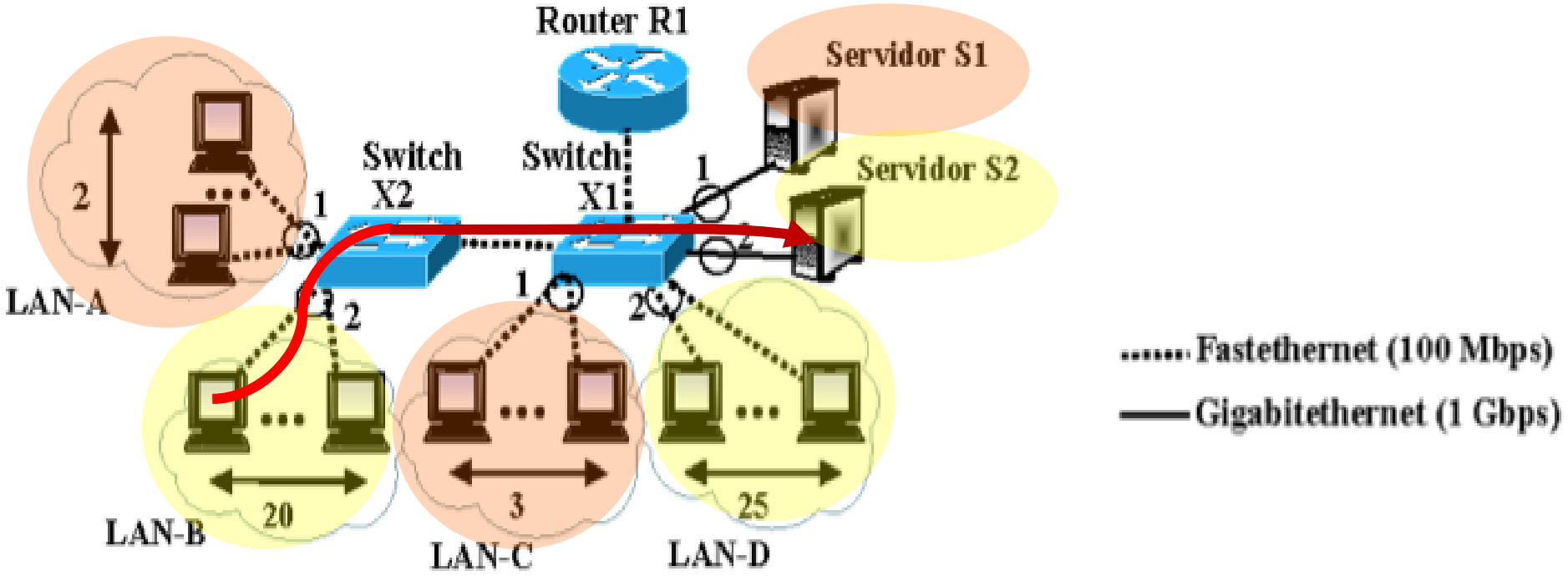


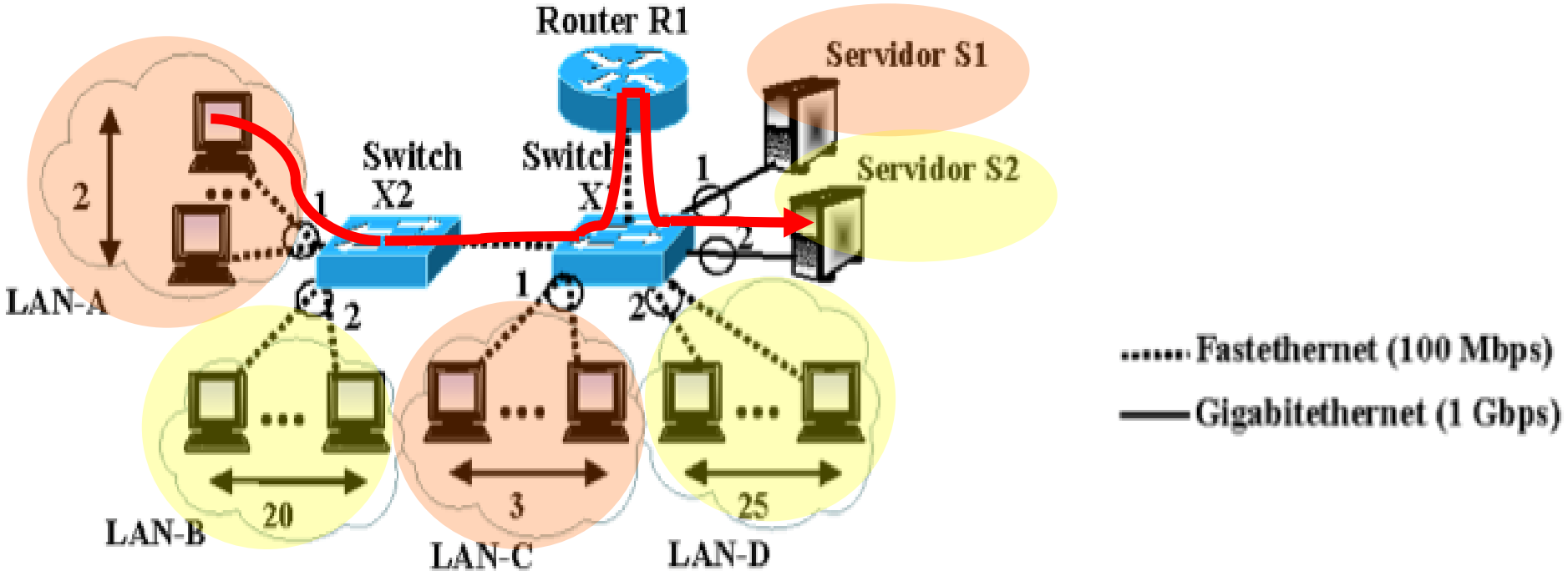
Llista la seqüencia de dispositius que intervenen en cada un dels casos següents:

1) Un dispositiu de LAN-B envia dades a S2
2) Un dispositiu de LAN-A envia dades a S2
3) Un dispositiu de LAN-C envia dades a S1

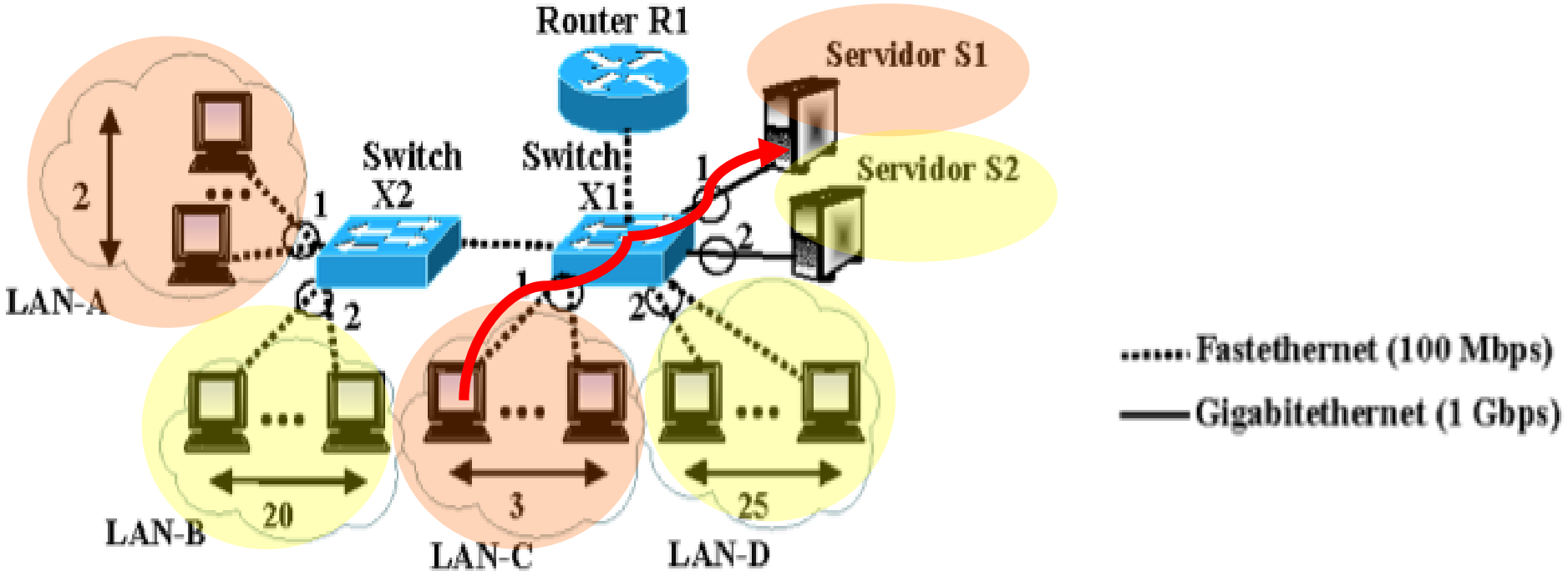
4) Quins són els enllaços que estan en mode Trunk?
5) El servidor S1 envia tràfic a S2. Hi ha algun coll d'ampolla? S'aplica control del flux? Com?
6) El servidor S2 envia tràfic a tots els dispositius de VLAN2. Quin és la velocitat de transmissió pera cada dispositiu?



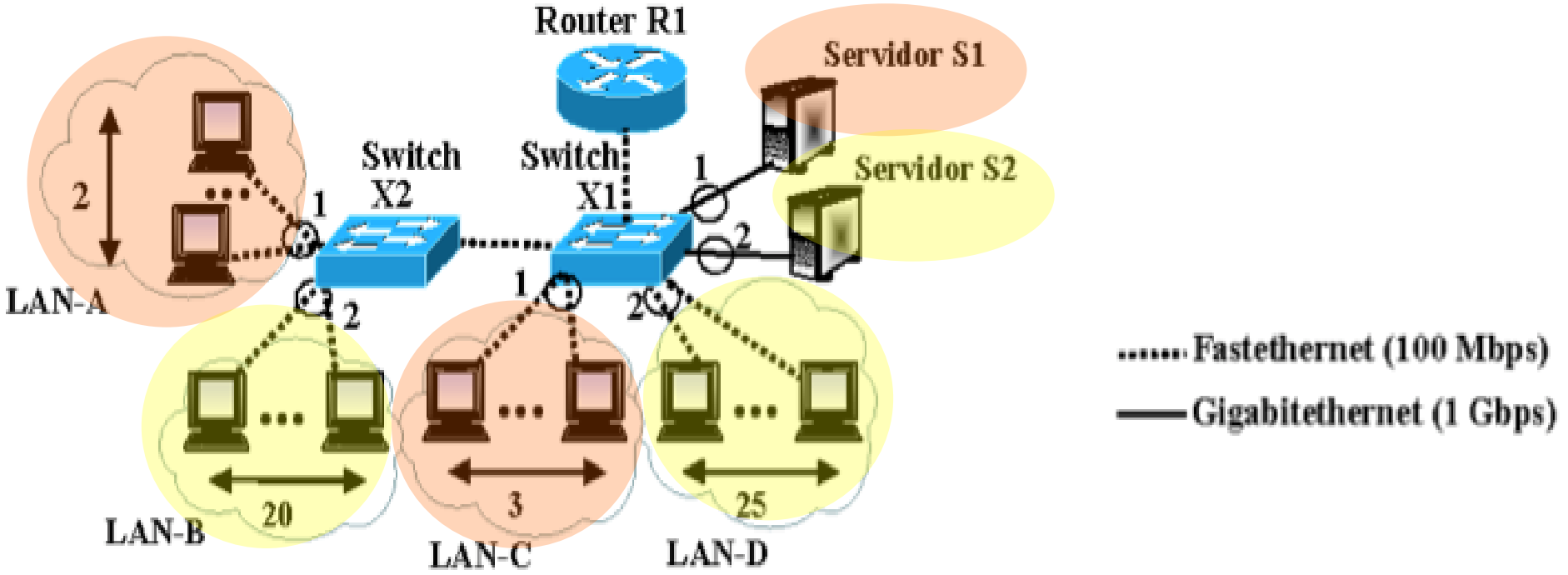
A host in LAN-B sends data to S2



A host in LAN-A sends data to S2



A host in LAN-C sends data to S1

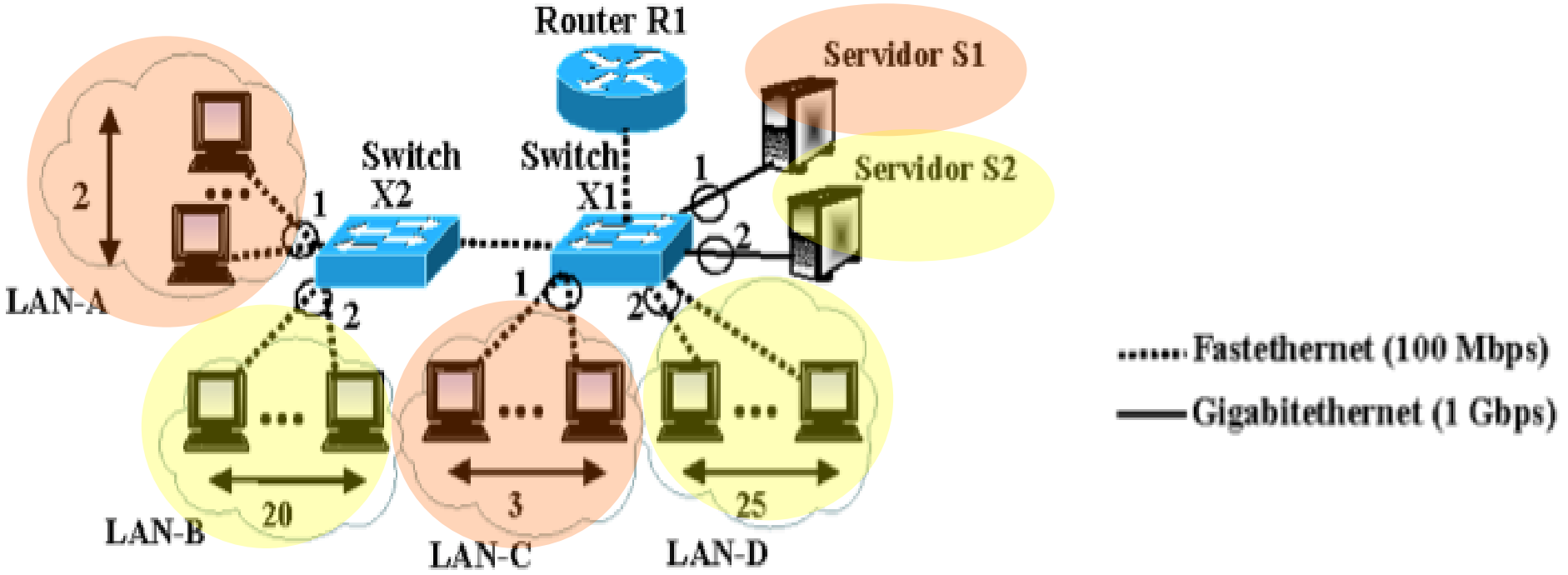


4) Which links should be configured in Trunk mode ?

X1-X2 and X1-R1

5) Server S1 sends traffic to S2. Is there any bottleneck? Does flow control apply? How?

X1-R1 link has 100Mbps capacity only! Flow control limits to 100Mbps (pause frames)



6) Server S2 sends traffic to all devices in VLAN2. What is the throughput for each device?

Traffic from S2 is distributed to switch X2 and LAN-B and to the 25 hosts in LAN-D.

X1-X2 limits to 100Mbps. Hosts in LAN-B receive 100Mbps/20= 5 Mbps.

The remaining 900Mbps are distributed among the 25 hosts in LAN-D. That is, 36Mbps.

TCP will distribute 1Gbps equally among the 45 receivers. That is 22.22Mbps each.

LAN-B: 20*22.22 = 444Mbps.