

----- Enlace serie punto a punto.
 ————— Enlace Ethernet.

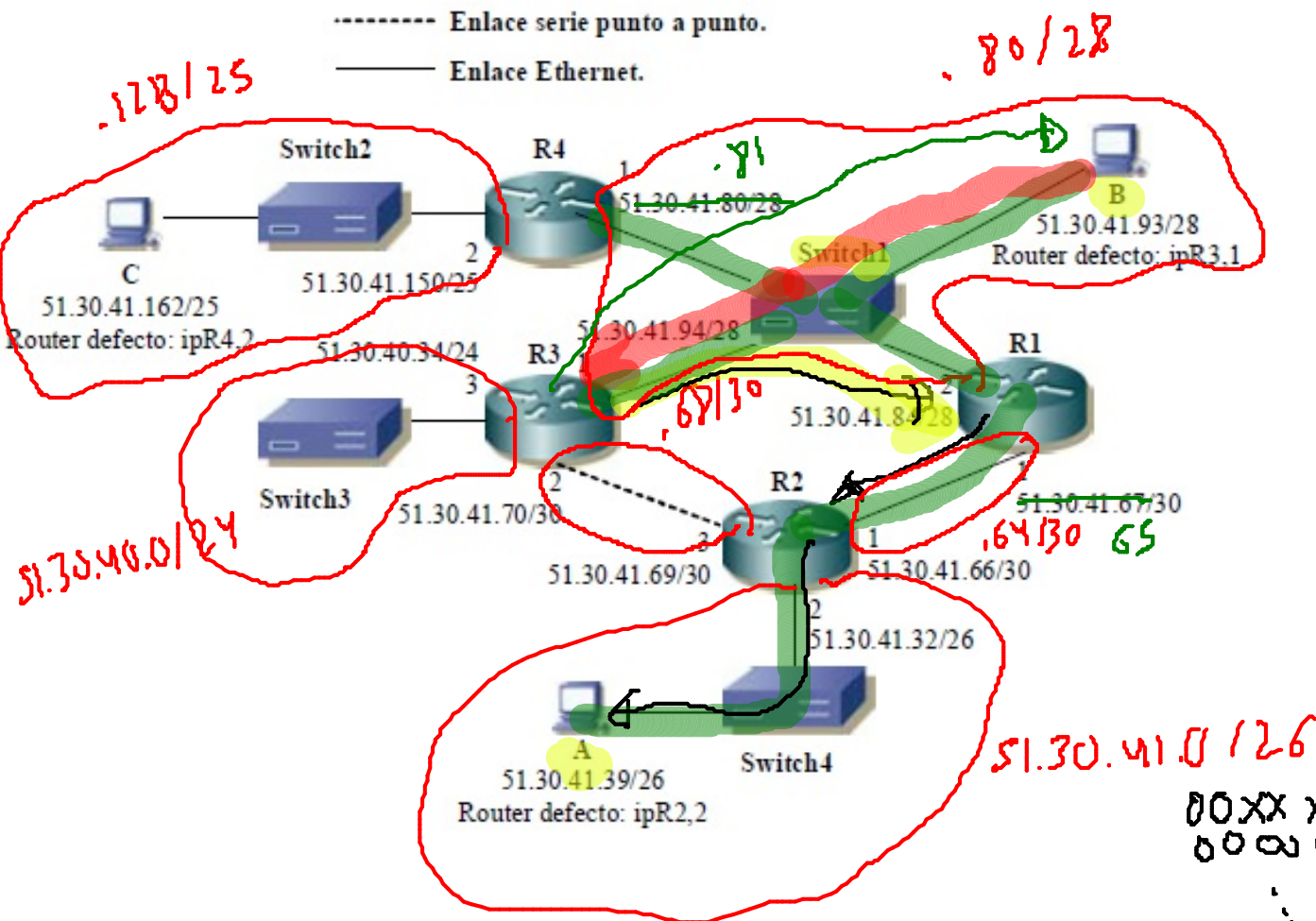


Tabla rutas R1

Red	Sig.	Interfaz
51.30.40.0/24	ipR3,1	2
51.30.41.0/26	ipR2,1	1
51.30.41.64/30	-	1
51.30.41.68/30	ipR2,1	1
51.30.41.80/28	-	2
51.30.41.128/25	ipR3,1	2

Tabla rutas R2

Red	Sig.	Interfaz
51.30.40.0/24	ipR1,1	1
51.30.41.0/26	-	2
51.30.41.64/30	-	1
51.30.41.68/30	-	3
51.30.41.80/28	ipR1,1	1
51.30.41.128/25	ipR3,2	3

Tabla rutas R3

Red	Sig.	Interfaz
51.30.40.0/24	-	3
51.30.41.0/26	ipR1,2	1
51.30.41.64/30	ipR1,2	1
51.30.41.68/30	-	2
51.30.41.80/28	-	1
51.30.41.128/25	ipR1,2	1

Tabla rutas R4

Red	Sig.	Interfaz
0.0.0.0/0	ipR3,1	1
51.30.41.80/28	-	1
51.30.41.128/25	-	2

b)
 PING A → B

00XX XXXX → 0
 00000001 → 1
 11110 → 62
 0011111 → 63

MAC o	MAC d	IP o	IP d	TTL	PROTO
MAC R1,2	FFFF..FF	—	—	—	ARP REQ IP B
MAC B	MAC R1,2	—	—	—	ARP RESP MAC B
MAC R1,2	2o MAC B	A	B	62	ICMP ECHO REQ
MAC B	FF...	—	—	—	ARP REQ IP R3,1
MAC R3,1	MAC B	—	—	—	ARP RESP MAC
MAC B	2o MAC R3,1	B	A	64	ICMP ECHO RESP
MAC R3,1	MAC B	IP R3,1	B	64	ICMP ECHO RESP
ARP SP MAC R3,1	MAC R1,2	B	A	63	ICMP ECHO RESP