

Location	Problem	Solution
R1	IPv4 Default route next hop interface address is incorrect.	Change next hop address to 172.31.1.193
R2	IPv6 route to LAN 1 has the wrong network address for the destination network.	Change destination address from 2001:DB6:1::/64 to 2001:DB8:1::/64
R2	The next hop addresses in the two IPv4 routes are reversed.	Change the statements to  ip route 172.31.1.0 255.255.255.128 172.31.1.194  and  ip route 172.31.1.128 255.255.255.192 172.31.1.198
R3	The IPv6 route to LAN 1 is missing.	Configure a directly connected static route to 2001:DB8:1::/64
R3	The IPv4 route to LAN 1 has the wrong mask for the network.	Change the mask to 255.255.255.128