IT 125-41194

Alex Arnold

5-12-25

Step 1: Locate and document the problems.

Record your findings in a table like the one below.

|  |  |  |
| --- | --- | --- |
| Location | Problem | Solution |
| R1 | Default route is incorrect | Change next hop address to 172.31.1.193 |
| R2 | The next hop in the two ipv4 static routes are reversed | Swap the two addresses |
| R2 | Pv6 route to LAN 1 has the wrong network address for the destination network. | R2 static ipv6 should be 2001:DB8 not DB6 |
| R3 | Ipv4 to Lan 1 has wrong subnet mask | Change from /28 to /25 |
| R3 | The ipv6 route to Lan 1 is missing | Configure a directly connected static route to 2001:DB8:1::/64 |

A computer screen shot of a computer error

AI-generated content may be incorrect.

R1 incorrect default static route

A screenshot of a computer code

AI-generated content may be incorrect.

R3 The static routes for R2 are flipped and should be the opposite of what they are.



R2 static ipv6 should be 2001:DB8 not DB6

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AI-generated content may be incorrect.

The route should be a /25 vs a /28

A screen shot of a computer

AI-generated content may be incorrect.

R3 no default ipv6 route to DB8:1

Step 2: Repair the problems.

Configure the devices so that full connectivity exists between the hosts on the LANs over IPv4 and IPv6.

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AI-generated content may be incorrect.

R1 incorrect static rout fixed from 195 to 193

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AI-generated content may be incorrect.

R2 issue with flipped ipv4 routes fixed

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AI-generated content may be incorrect.

R2 ipv6 route corrected

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AI-generated content may be incorrect.

R3 /28 changed to /25

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AI-generated content may be incorrect.

R3 route added to DB8:1

A screenshot of a computer program

AI-generated content may be incorrect.

PC1 connection to server

A screen shot of a computer

AI-generated content may be incorrect.

PC2 connection to server

A screenshot of a computer

AI-generated content may be incorrect.

Pc1 to pc2 ping