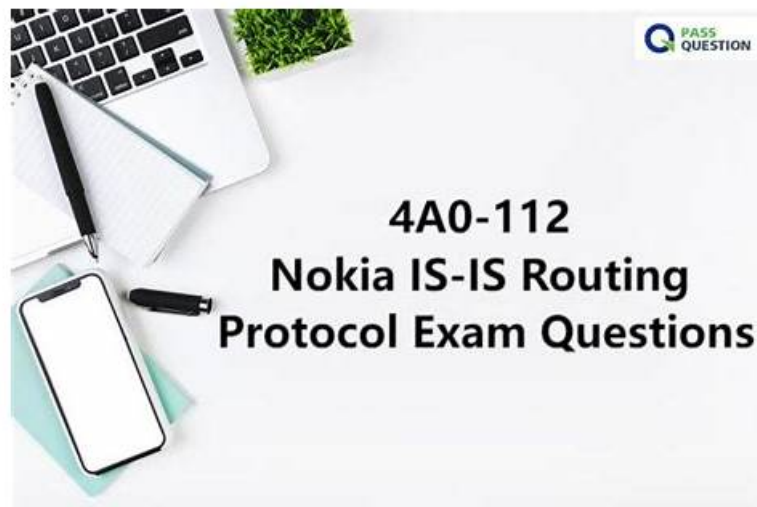


# 100% Pass 4A0-112 - Nokia IS-IS Routing Protocol—Trustable Real Questions



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The Nokia IS-IS Routing Protocol certification exam is intended for individuals who have a solid understanding of IP routing protocols, network design, and network architecture. 4A0-112 Exam covers a variety of topics, including IS-IS protocol basics, IS-IS packet format, IS-IS operation, IS-IS configuration, and IS-IS troubleshooting.

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## 4A0-112 Real Questions - Nokia IS-IS Routing Protocol Realistic Exam Questions Pdf

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### Nokia IS-IS Routing Protocol Sample Questions (Q33-Q38):

#### NEW QUESTION # 33

A series of actions are triggered on a router as a result of enabling both loopfree-alternate for a link-state routing protocol and ip-fast-reroute. Which of the following is NOT one of those actions?

- A. Enabling the router to locally repair the active path to an IP prefix in case of failure.
- B. Calculating a backup next hop for each known IP prefix, if it exists, that would not create a routing loop if used without informing other routers.
- C. Calculating the shortest-path next hop for each known IP prefix.
- D. Installing two entries in the FIB for IP prefixes, one active and one in standby mode.

**Answer: C**

### NEW QUESTION # 34

A routing domain uses a link-state routing protocol. Which of the following would NOT be an advantage of dividing the entire routing domain into areas?

- A. Less-capable routers can be isolated from having to keep track of IP prefixes that are external to the local routing domain.
- **B. Fewer routers are required to handle the same amount of traffic, as compared to a single-area domain.**
- C. Route tables can be reduced by summarizing the IP prefixes advertised between areas.
- D. Detailed topology information is only shared among routers within the same area, thus reducing the complexity of the SPF calculation.

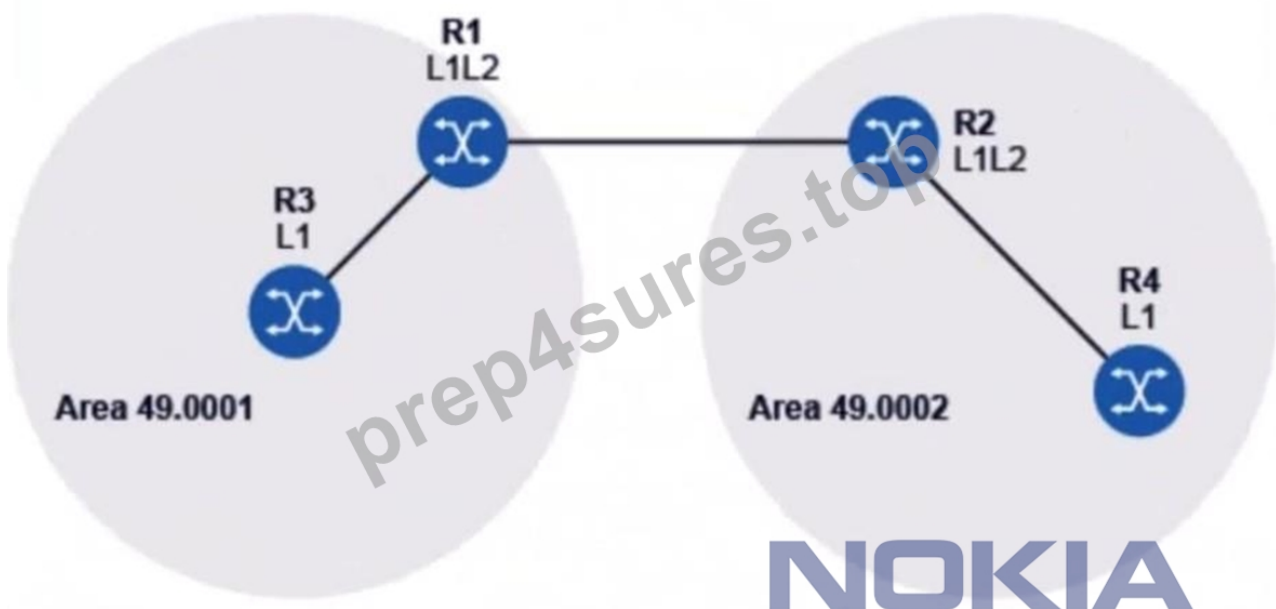
**Answer: B**

Explanation:

Dividing a domain into areas typically does not reduce the number of routers needed to handle traffic. It is more focused on improving scalability, reducing the size of routing tables, and limiting the scope of SPF calculations, but it doesn't inherently reduce the number of routers required.

### NEW QUESTION # 35

Refer to the exhibit.



Routers R1 through R4 in the diagram have established IS-IS adjacencies. Router R1 is L1/L2 and is the DIS of its two broadcast interfaces. How many LSPs will it generate?

- A. 0
- B. 1
- C. 2
- **D. 3**

**Answer: D**

Explanation:

Router R1 is configured as L1/L2, meaning it is part of both Level 1 and Level 2 IS-IS routing areas. This means R1 will generate two types of LSPs:

Level 1 LSP (for the local area 49.0001) to advertise its local topology to other Level 1 routers.

Level 2 LSP (for the backbone area 49.0002) to advertise the global network topology to Level 2 routers.

R1 also has two broadcast interfaces, and as the Designated Intermediate System (DIS) on these interfaces, it will generate an LSP for each interface (one per broadcast link).

This results in three total LSPs:

A Level 1 LSP for the local area (49.0001).

A Level 2 LSP for the backbone area (49.0002).

An LSP for each of the two broadcast interfaces, which may include interface-related topology information.

### NEW QUESTION # 36

When using IS-IS in native mode for routing in a dual-stack IPv4/IPv6 environment, which of the following statements is FALSE?

- A. It may lead to traffic black-holing if not properly designed.
- B. The same topology information is used to calculate the shortest path tree for both IPv4 and IPv6.
- C. All links are assumed to be IPv4- and IPv6-capable.
- D. In a multi-area environment, the SPF algorithm needs to be run four times on each L1/L2 router.

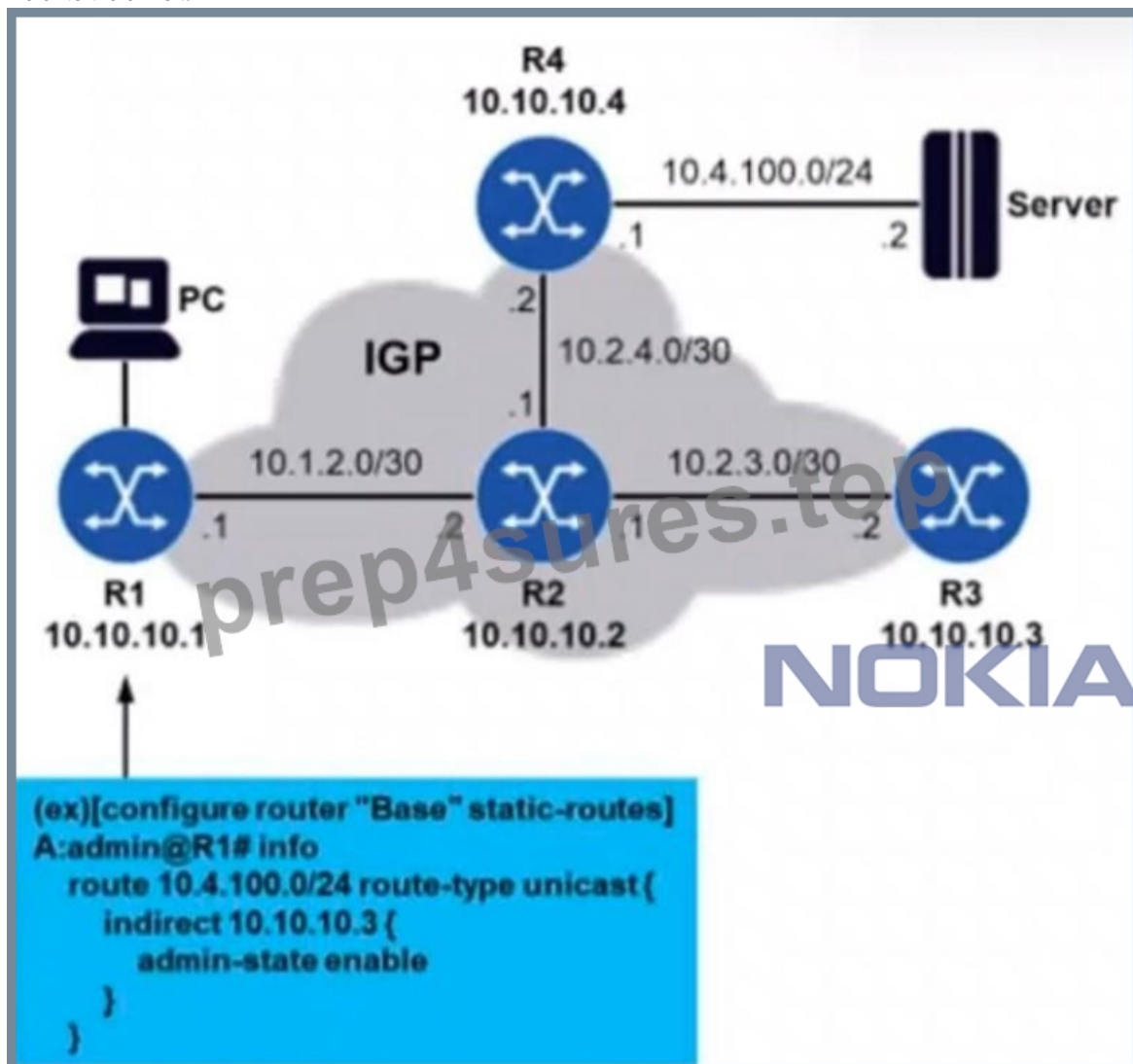
**Answer: D**

Explanation:

In a dual-stack IPv4/IPv6 IS-IS environment, the SPF (Shortest Path First) algorithm is only run once per router for each protocol (IPv4 or IPv6). The topology is shared, but the SPF calculations for IPv4 and IPv6 are separate. This means that the SPF algorithm will run twice (once for IPv4 and once for IPv6) for each L1/L2 router, not four times.

### NEW QUESTION # 37

Refer to the exhibit.



Routers R1 through R4 are running an IGP in such a way that they have each other's system IP addresses in their routing tables. A static route is configured on router R1 so that it can reach subnetwork 10.4.100.0/24. The network administrator decides to use an indirect static route, as shown in the diagram. However, pinging the server from router R1 fails. What may be the problem in this case?

- A. Router R3 drops the echo request because it does not have subnet 10.4.100.0/24 in its routing table.
- B. Router R2 drops the echo request because it does not have subnet 10.4.100.0/24 in its routing table.

- C. Router R1 drops the echo request because address 10.10.10.3 does not belong to an adjacent router.
- **D. The echo request arrives at the server but there is no path for the echo response to return to router R1.**

**Answer: D**

Explanation:

The static route configured on router R1 uses an indirect next-hop, which is 10.10.10.3 (R3). While the echo request from R1 reaches the server through the IGP, the problem lies in the return path for the echo response.

The route 10.4.100.0/24 is reachable through R3, but there is no reciprocal route in R3's routing table that allows the response to flow back towards R1. This results in a failure to return the echo response to R1, causing the ping to fail.

## NEW QUESTION # 38

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