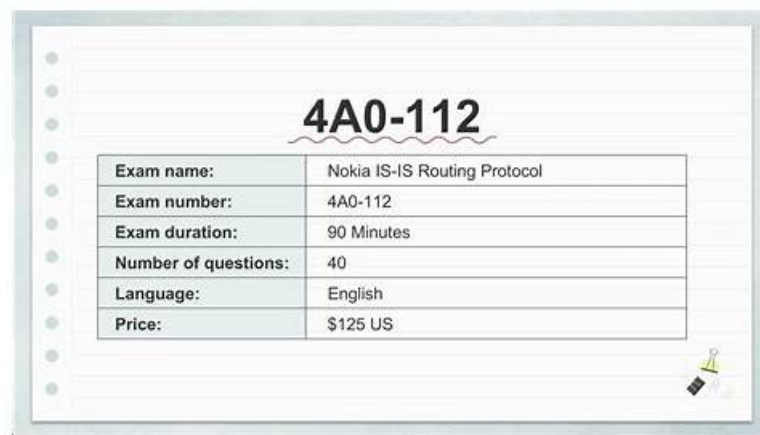


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4A0-112	
Exam name:	Nokia IS-IS Routing Protocol
Exam number:	4A0-112
Exam duration:	90 Minutes
Number of questions:	40
Language:	English
Price:	\$125 US

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Nokia IS-IS Routing Protocol Sample Questions (Q20-Q25):

NEW QUESTION # 20

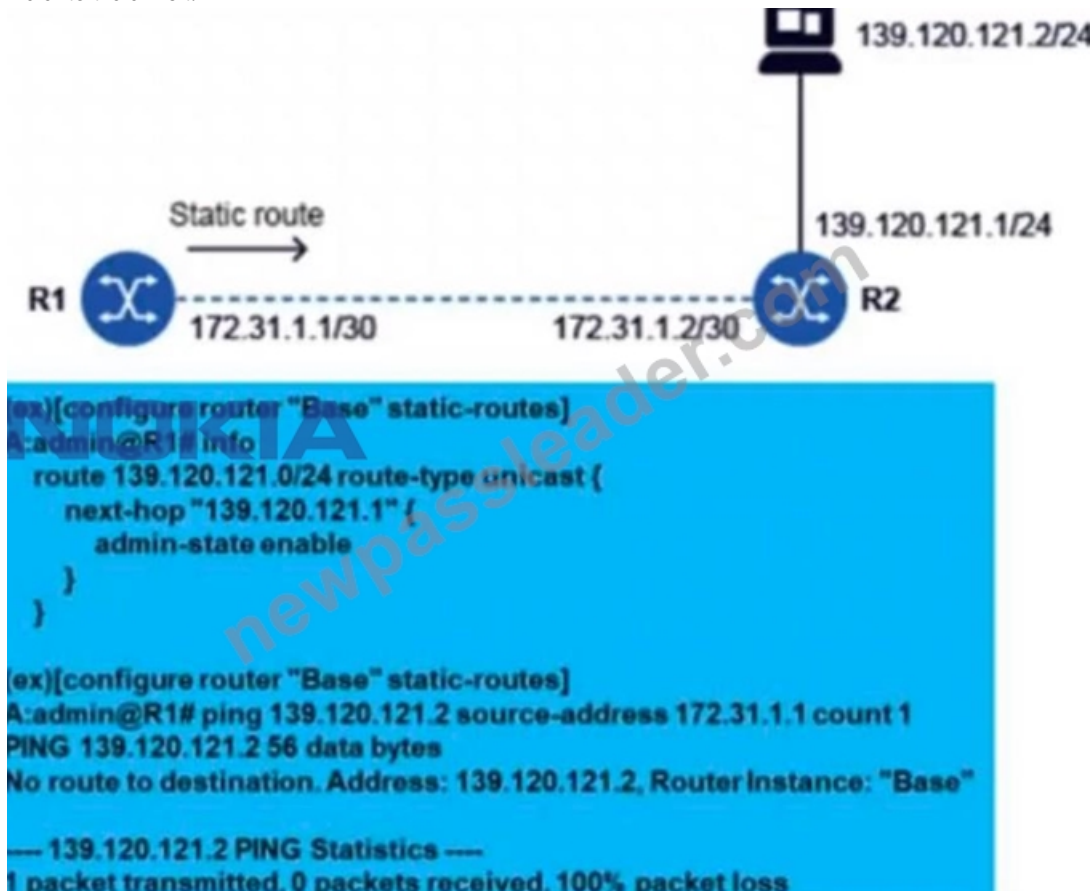
A series of actions are triggered on a router as a result of enabling both loopfree-alternate for a link-state routing protocol and ip-fast-reroute. Which of the following is NOT one of those actions?

- A. Installing two entries in the FIB for IP prefixes, one active and one in standby mode.
- 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. Enabling the router to locally repair the active path to an IP prefix in case of failure.

Answer: C

NEW QUESTION # 21

Refer to the exhibit.



A static route has been configured on router R1 to reach the PC at 139.120.121.2. What might be causing the ping to fail?

- A. Router R1 needs a static route to router R2.
- B. Router R2 needs a static route to the PC.
- C. The configured static route needs to be a default route.
- D. The configured next hop does not belong to a subnet adjacent to R1.

Answer: D

Explanation:

In the configuration on router R1, the static route is defined with the next-hop IP address of 139.120.121.1.

However, the next-hop IP address 139.120.121.1 does not belong to the same subnet as the directly connected interface on R1, which is 172.31.1.1/30. For the static route to work properly, the next-hop IP address must be reachable via a directly connected interface, meaning it must be within the same subnet.

Therefore, this mismatch in subnet adjacency is likely causing the failure to reach the destination (139.120.121.2).

NEW QUESTION # 22

A router is trying to establish an IS-IS adjacency with the DIS on a broadcast link. What event causes the adjacency to change from "Initializing" to "UP"?

- A. Receiving the first CSNP packet from the DIS that lists the LSPs in the DIS's link-state database.
- B. Receiving the last LSP requested from the DIS.
- C. Receiving a CSNP packet from the DIS acknowledging the last transmitted LSP.
- D. Receiving a Hello packet from the DIS that contains the local router's own MAC address in the neighbor list.

Answer: A

Explanation:

The process of establishing an IS-IS adjacency on a broadcast link involves several steps, and the transition from the Initializing state to the UP state occurs when both routers exchange sufficient information to confirm they have a consistent view of the link-state database.

The CSNP (Complete Sequence Number PDU) packet is used to advertise the list of LSPs in the router's link-state database.

When a router receives the first CSNP from the DIS (Designated Intermediate System) that lists the LSPs in the DIS's database, it indicates that the router has enough information to establish the adjacency and synchronize its database.

NEW QUESTION # 23

Which of the following is NOT a required configuration step to successfully run IS-IS on a router?

- A. The router needs to be associated with an IS-IS area ID.
- **B. A reference bandwidth needs to be configured to calculate link costs.**
- C. Layer-3 interfaces that will participate in IS-IS need to be identified.
- D. The IS-IS context needs to be enabled.

Answer: B

Explanation:

While configuring a reference bandwidth (which is used to calculate link costs) can be useful, it is not strictly required for IS-IS to run. IS-IS uses default bandwidth values to calculate costs, and it can function without explicitly configuring a reference bandwidth.

NEW QUESTION # 24

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. All links are assumed to be IPv4- and IPv6-capable.
- C. The same topology information is used to calculate the shortest path tree for both IPv4 and IPv6.
- **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 # 25

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