

Updated Pdf 4A0-112 Version & Trustable 4A0-112 Exam Duration & Hot Nokia Nokia IS-IS Routing Protocol



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Nokia IS-IS Routing Protocol Sample Questions (Q40-Q45):

NEW QUESTION # 40

Which of the following statements regarding the databases used by a link-state routing protocol in a single-area routing domain is FALSE?

- A. The adjacency database contains information about all the links interconnecting the domain's routers.
- B. The link-state database is the same for all routers.
- C. The forwarding database contains the optimum next hop for each known prefix.
- D. The link-state database has the local topology and IP reachability information advertised by all the routers.

Answer: A

Explanation:

The adjacency database contains information about the state of the router's adjacencies (i.e., the routers that it is directly connected to and has established a neighbor relationship with). It does not store information about all links in the domain; that information is stored in the link-state database.

NEW QUESTION # 41

Refer to the exhibit.

```
(ex)[configure router "Base"]
A:admin@R2# /show router isis database
```

Rtr Base ISIS Instance 0 Database				
LSP ID	Sequence	Checksum	Lifetime	Attributes
Displaying Level 1 database				
R1.00-00	0xc	0xb836	1092	L1
R2.00-00	0x1	0xc634	1093	L1L2 ATT
R3.00-00	0x1	0x49b0	1092	L1L2 ATT
Level (1) LSP Count : 3				
Displaying Level 2 database				
R2.00-00	0xe	0xdab4	1093	L1L2
R3.00-00	0xe	0xf819	1092	L1L2
R4.00-00	0x1	0x88af	1092	L1L2
R5.00-00	0x1	0xd986	1092	L1L2
Level (2) LSP Count : 4				

Which of the following statements best describes the IS-IS domain to which the command output corresponds?

- A. Multi-area IS-IS domain with no broadcast interfaces.
- B. Single-area IS-IS domain with no broadcast interfaces.
- C. Single-area IS-IS domain with broadcast interfaces.

- D. Multi-area IS-IS domain with broadcast interfaces.

Answer: D

Explanation:

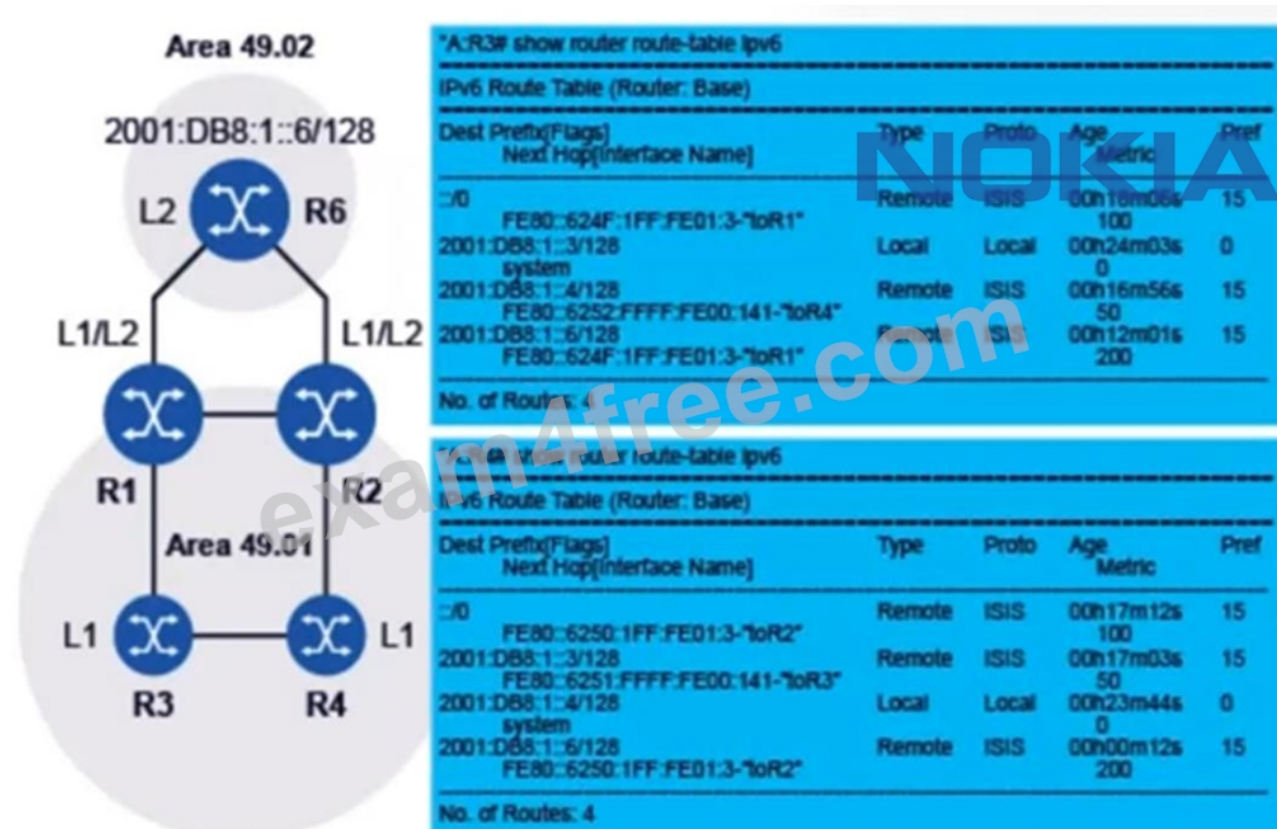
The output shows two levels of IS-IS databases: Level 1 (L1) and Level 2 (L2). This indicates that the domain is multi-area, as L1 routers are confined to a single area, while L2 routers can route between different areas. The presence of Level 1/Level 2 (L1/L2) routers also suggests that the domain spans multiple areas.

The LSP (Link-State PDU) entries show L1/L2 ATT attributes, which typically indicate that these routers are capable of routing both within their own area (Level 1) and across areas (Level 2), suggesting a multi-area design.

The IS-IS domain likely includes broadcast interfaces, as indicated by the "ATT" attribute (typically referring to the type of interface) and common IS-IS configuration practices on broadcast networks like Ethernet.

NEW QUESTION # 42

Consider the exhibit.



All routers are running IS-IS with IPv6 support enabled. Based on the topology shown, and the route tables of routers R3 and R4, which of the following statements is TRUE?

- A. There is no route leaking configured on router R1 or router R2.
- B. Route leaking is configured on router R1 but not on router R2.
- C. Route leaking is configured on router R2 but not on router R1.
- D. Route leaking is configured on both routers R1 and R2.

Answer: D

Explanation:

From the route tables of R3 and R4, we can see that remote routes are present, with R3 and R4 both having routes referencing routers in different areas (Area 49.01 and 49.02). These remote routes are characteristic of route leaking, which is the process of sharing routes between different IS-IS areas.

R3 has routes for R1, R2, and R4, which are in Area 49.01, suggesting that R1 and R2 have advertised their routes to R3, possibly due to route leaking.

R4 has similar routes for R2 and R3, indicating that R2 might have advertised its routes to R4.

This sharing of routes between areas is indicative of route leaking being configured on both R1 and R2, allowing these routes to be shared across the areas.

NEW QUESTION # 43

A router running a link-state routing protocol detects that one of its neighbors is no longer connected to it. The router generates a new link-state advertisement to inform other routers of the topology change. Which of the following is NOT an action that is triggered by this event?

- A. Every router that receives the new link-state advertisement runs the SPF algorithm to recalculate its shortest-path tree and its forwarding database.
- **B. Every router that receives the new link-state advertisement updates its age field before forwarding it.**
- C. If a router receives the new link-state advertisement, it acknowledges it, stores it, and forwards it to its own neighbors.
- D. If a router receives multiple copies of the new link-state advertisement, it will simply ignore all copies received after the first one.

Answer: B

Explanation:

When a router receives a link-state advertisement (LSA), it does not update the age field before forwarding it. The age field in an LSA is typically updated by the originating router or during the process of forwarding the LSA within the network. Routers do not modify the age field upon receiving and forwarding an LSA.

NEW QUESTION # 44

Which of the following is NOT a function of the control plane a router?

- **A. To utilize the forwarding tables to forward data packets towards their destination.**
- B. To exchange signaling messages with other routers.
- C. To determine the best way to forward packets.
- D. To establish routing paths to deliver packets from source to destination and to reestablish them in case of failure.

Answer: A

Explanation:

The data plane (or forwarding plane) is responsible for actually forwarding the data packets. It uses the information stored in the forwarding table to determine how to move packets from one interface to another toward their destination.

NEW QUESTION # 45

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