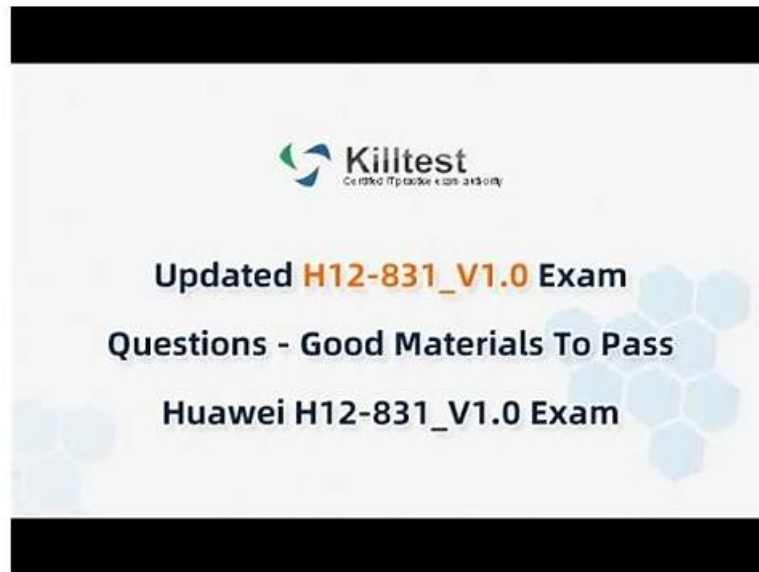


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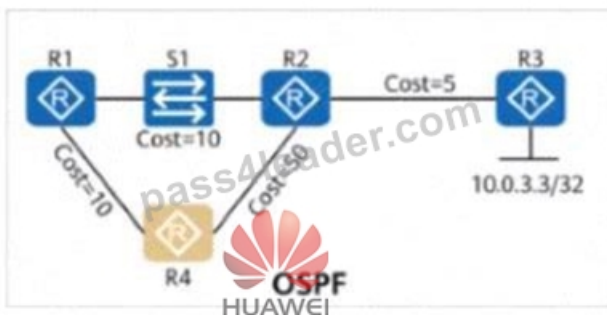
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Huawei HCIP-Datacom-Advanced Routing & Switching Technology V1.0 Sample Questions (Q172-Q177):

NEW QUESTION # 172

On the OSPF network shown in the figure, the cost values of links are marked, and OSPF IP FRR is enabled on R1. Which of the following statements is false?



- A. If the link between R1 and S1 is disconnected, R1 recalculates the optimal path to R3 and performs path switching instantly.
- B. If the link between R1 and S1 is disconnected, R1 directly uses the backup path to forward packets to R3 because FRR is enabled on R1.
- C. If the link between R2 and S1 is disconnected, R1 recalculates the optimal path to R3 and performs path switching instantly.
- D. If the link between R1 and S1 is disconnected and you check neighbor information on R1, the neighbor relationship between R1 and R2 will instantly display Down.

Answer: A

NEW QUESTION # 173

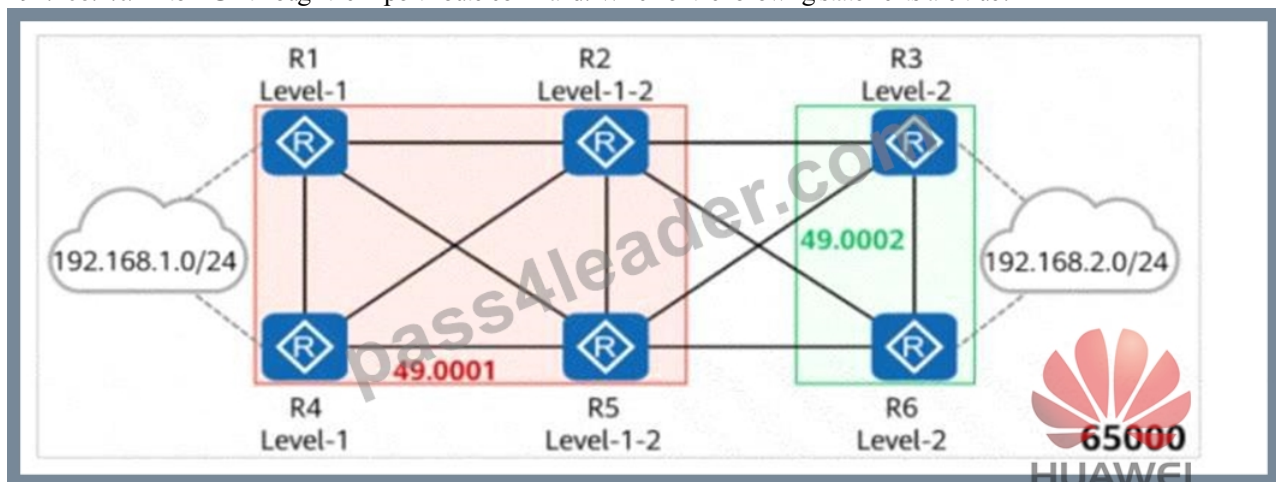
The deployment of port isolation technology in Ethernet can realize Layer 2 intercommunication and Layer 3 isolation, making the network more flexible.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION # 174

On the network shown in the figure, IS-IS runs on R1, R2, R4, and R5, and the area ID is 49.0001. IS-IS runs on R3 and R6, and the area ID is 49.0002. The import-route isis level-2 into level-1 command is configured on R2 and R5. In AS 65000, R1, R3, R4, and R6 each establish iBGP peer relationships with R2 and R5. R2 and R5 are RR (Route Reflectors), and R1, R4, R3, and R6 are the iBGP peer relationship clients. The iBGP peer relationship ID is 10.0.0.X/32, where X is the number of the iBGP router. R1 and R4 import the external route 192.168.1.0/24 to BGP through the import-route command, and R3 and R6 import the external route 192.168.2.0/24 to BGP through the import-route command. Which of the following statements are true?



- A. The routing table of R4 contains two equal-cost default routes.
- B. The route 192.168.2.0/24 in the routing table of R4 has two different outbound interfaces.
- C. The routing table of R1 contains two equal-cost default routes.
- D. The routing table of R1 contains the route 192.168.2.0/24.

Answer: D

Explanation:

Comprehensive and Detailed In-Depth Explanation: This question involves a complex network topology with IS-IS, iBGP, and route reflection, requiring an understanding of routing protocols, area boundaries, and route distribution. Let's analyze each statement step-by-step to determine which is true, based on HCIP-Datcom principles.

Network Overview:

* IS-IS Configuration:

* IS-IS runs on R1, R2, R4, and R5 in area 49.0001 (Level-1/Level-2).

* IS-IS runs on R3 and R6 in area 49.0002 (Level-2 only, as implied by the figure).

* The `import-route isis level-2 into level-1` command on R2 and R5 allows Level-2 routes (from area 49.0002) to be injected into Level-1 routers (R1, R4) in area 49.0001.

* BGP Configuration:

* AS 65000 uses iBGP with R2 and R5 as Route Reflectors (RRs), and R1, R3, R4, and R6 as clients.

* iBGP peer relationships use IP addresses 10.0.0.X/32, where X is the router number (e.g., R1 = 10.0.0.1/32, R4 = 10.0.0.4/32, etc.).

* R1 and R4 import the external route 192.168.1.0/24 into BGP using `import-route`.

* R3 and R6 import the external route 192.168.2.0/24 into BGP using `import-route`.

* Topology Insights:

* The figure shows R2 and R5 as central hubs connecting Level-1/Level-2 IS-IS areas and serving as RRs for iBGP.

* R1 and R4 are in area 49.0001 (Level-1/Level-2), while R3 and R6 are in area 49.0002 (Level-2).

* External routes (192.168.1.0/24 and 192.168.2.0/24) are injected into BGP and distributed via iBGP.

Analyzing Each Statement:

A: The routing table of R4 contains two equal-cost default routes.

* Analysis:

* In IS-IS, default routes (0.0.0.0/0) are typically generated by Level-2 routers and propagated to Level-1 routers if configured (e.g., via `default-route-advertise`).

* R4 is a Level-1/Level-2 router in area 49.0001. It can learn default routes from R2 or R5 (Level-2 routers) if they advertise a default route.

* However, the question does not indicate that R2 or R5 are configured to advertise default routes, nor does it specify equal-cost paths to a default route.

* Given the `import-route isis level-2 into level-1` on R2 and R5, Level-2 routes (including defaults, if any) are injected into Level-1, but there's no evidence of two equal-cost default routes in R4's routing table.

* Additionally, IS-IS prefers the closest Level-2 router for default routes, and the topology suggests a single path (e.g., via R2 or R5), not two equal-cost paths.

* Conclusion: This statement is false.

B: The route 192.168.2.0/24 in the routing table of R4 has two different outbound interfaces.

* Analysis:

* The route 192.168.2.0/24 is an external route imported into BGP by R3 and R6 (in area 49.0002) using `import-route`.

* As RRs, R2 and R5 reflect this route to their iBGP clients, including R4 (in area 49.0001).

* However, iBGP routes do not modify the next-hop by default unless `next-hop-self` is configured on the RR. The next-hop for 192.168.2.0/24 from R3/R6 would typically point to R3 or R6, not R2 or R5, unless modified.

* R4, as an iBGP client, receives the route but needs an IGP (IS-IS) path to the next-hop (R3 or R6).

* The `import-route isis level-2 into level-1` on R2 and R5 allows R4 to learn IS-IS routes from area 49.0002, but the question does not indicate multiple equal-cost paths to R3 or R6 from R4.

* In IS-IS, unless explicitly configured for equal-cost multipath (ECMP) with the same cost to R3 and R6, R4 would use a single outbound interface to reach 192.168.2.0/24.

* The topology suggests a single path (e.g., via R2 or R5) to area 49.0002, not two equal-cost outbound interfaces.

* Conclusion: This statement is false.

C: The routing table of R1 contains two equal-cost default routes.

* Analysis:

* Similar to R4, R1 is a Level-1/Level-2 router in area 49.0001. It can learn default routes from R2 or R5 if they advertise them.

* The question does not specify that R2 or R5 are configured to advertise default routes, nor does it indicate multiple equal-cost paths to a default route.

* IS-IS prefers the closest Level-2 router for default routes, and the topology (with R2 and R5 as central hubs) suggests a single path, not two equal-cost paths.

* Without evidence of ECMP or specific default route configuration, R1 would not have two equal-cost default routes.

* Conclusion: This statement is false.

D: The routing table of R1 contains the route 192.168.2.0/24.

* Analysis:

* The route 192.168.2.0/24 is an external route imported into BGP by R3 and R6 (in area 49.0002) using `import-route`.

* R2 and R5, as Route Reflectors, reflect this iBGP route to their clients, including R1 (in area 49.0001).

- * iBGP ensures that the route is propagated within AS 65000, so R1, as an iBGP client of R2 and R5, will receive the 192.168.2.0/24 route.
- * For R1 to install this route in its routing table, it needs a valid IGP (IS-IS) path to the next-hop of the BGP route (likely R3 or R6).
- * The import-route isis level-2 into level-1 on R2 and R5 ensures that IS-IS Level-2 routes from area 49.0002 (including paths to R3 and R6) are injected into Level-1 routers like R1.
- * Therefore, R1 can resolve the next-hop for 192.168.2.0/24 via IS-IS and install the route in its routing table.
- * Conclusion: This statement is true.

Final Answer and Rationale:

The only true statement is D, as R1, being an iBGP client of R2 and R5, will receive and install the 192.168.2.0/24 route in its routing table, with IS-IS providing the necessary path to the next-hop.

References from HCIP-Datacom-Advanced Routing & Switching Technology Documents:

- * Huawei HCIP-Datacom V1.0 Training Manual, Chapter 4: IS-IS Configuration and Optimization, Sections on Level-1/Level-2 Interactions and Route Import.
- * Huawei HCIP-Datacom V1.0 Training Manual, Chapter 5: BGP Configuration and Optimization, Sections on Route Reflection and iBGP Route Distribution.
- * RFC 1195 (IS-IS) and RFC 4271 (BGP-4) for standard protocol behavior.

NEW QUESTION # 175

When an IP packet enters the MPLS domain, the ingress node checks the Tunnel ID corresponding to the destination IP address. When the Tunnel ID is one of the following, the ingress node performs IP forwarding on the packet?

- A. 0x3
- B. 0x2
- C. 0x1
- D. 0x0

Answer: D

NEW QUESTION # 176

The figure shows the Router-LSA generated by a router. Which of the following statements are true based on the LSA?

```

LS Age: 1278
LS Type: Router-LSA
Link State ID: 0.0.0.0
Originating Router: 10.0.1.1
LS Seq Number: 0x80000009
Retransmit Count: 0
Checksum: 0x5276
Length: 36
Flags: 0x01 (-|-|-|B)
Options: 0x000013 (-|R|-|-|E|V6)

Link connected to a Transit Network
Metric: 1
Interface ID: 0x3
Neighbor Interface ID: 0x3
Neighbor Router ID: 10.0.2.2

Link connected to a Transit Network
Metric: 1
Interface ID: 0x5
Neighbor Interface ID: 0x5
Neighbor Router ID: 10.0.3.3
  
```

- A. At least one interface on the router belongs to a stub area.
- B. At least one interface on the router belongs to area 0.
- C. The router is an ABR.
- D. The router is an ASBR.

Answer: B,C

NEW QUESTION # 177

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