

➤ **Vendor:** Cisco

➤ **Exam Code:** 300-420

➤ **Exam Name:** Designing Cisco Enterprise Networks (ENSLD)

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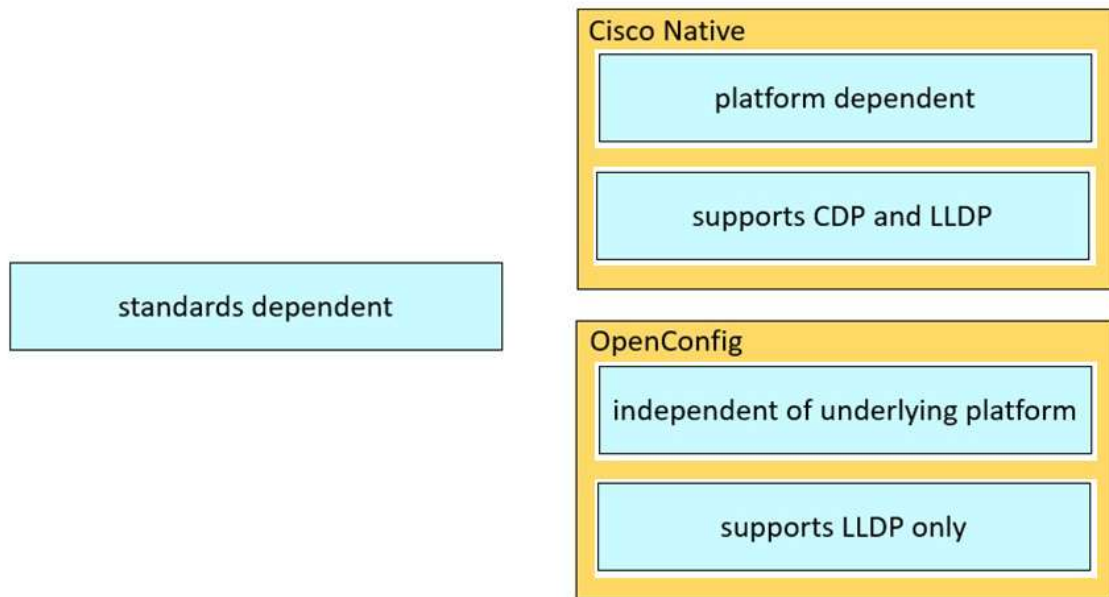
QUESTION 175

Drag and Drop Question

Drag and drop the characteristics from the left onto the YANG models they describe on the right. Not all options are used.

independent of underlying platform	Cisco Native <div></div> <div></div>
platform dependent	
standards dependent	
supports LLDP only	OpenConfig <div></div> <div></div>
supports CDP and LLDP	

Answer:

**QUESTION 176**

A company's security policy requires that all connections between sites be encrypted in a manner that does not require maintenance of permanent tunnels. The sites are connected through a private MPLS-based service that uses a dynamically changing key and spoke-to-spoke communication. Which type of transport encryption must be used in this environment?

- A. GETVPN
- B. DMVPN
- C. GRE VPN
- D. standard IPsec VPN

Answer: A

QUESTION 177

An engineer must design a QoS solution for a customer. The network currently supports data only, but the customer will roll out VoIP and IP video in conjunction with the new QoS solution. The engineer plans to use DiffServ. To ensure priority for voice services, which model must the design include?

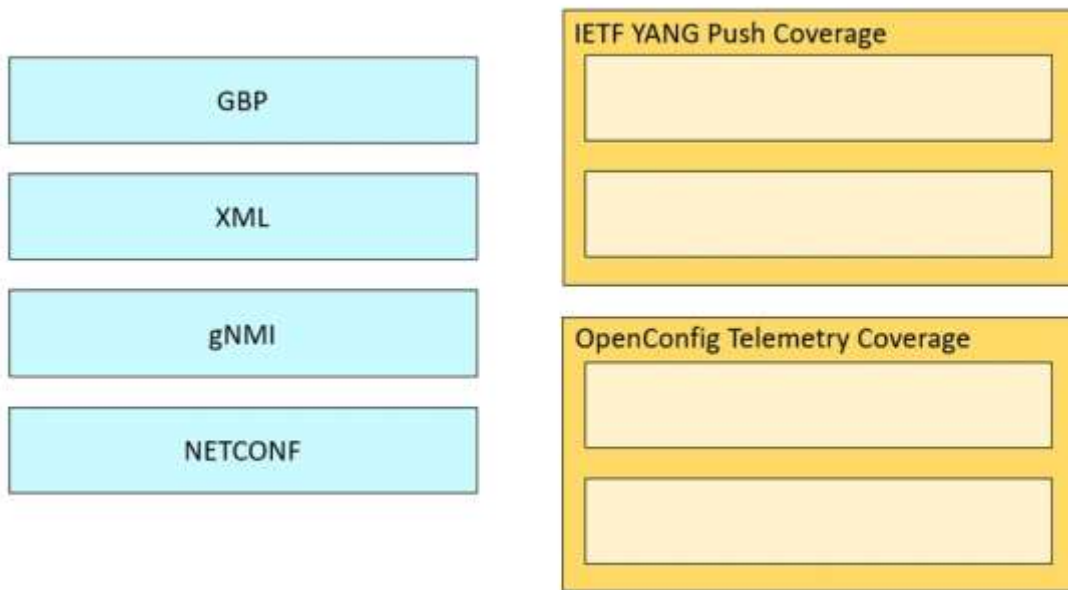
- A. 8-class model
- B. 4-class model
- C. 6-class model
- D. 12-class model

Answer: A

QUESTION 178

Drag and Drop Question

Drag and drop the elements from the left onto the YANG models where they are used on the right.

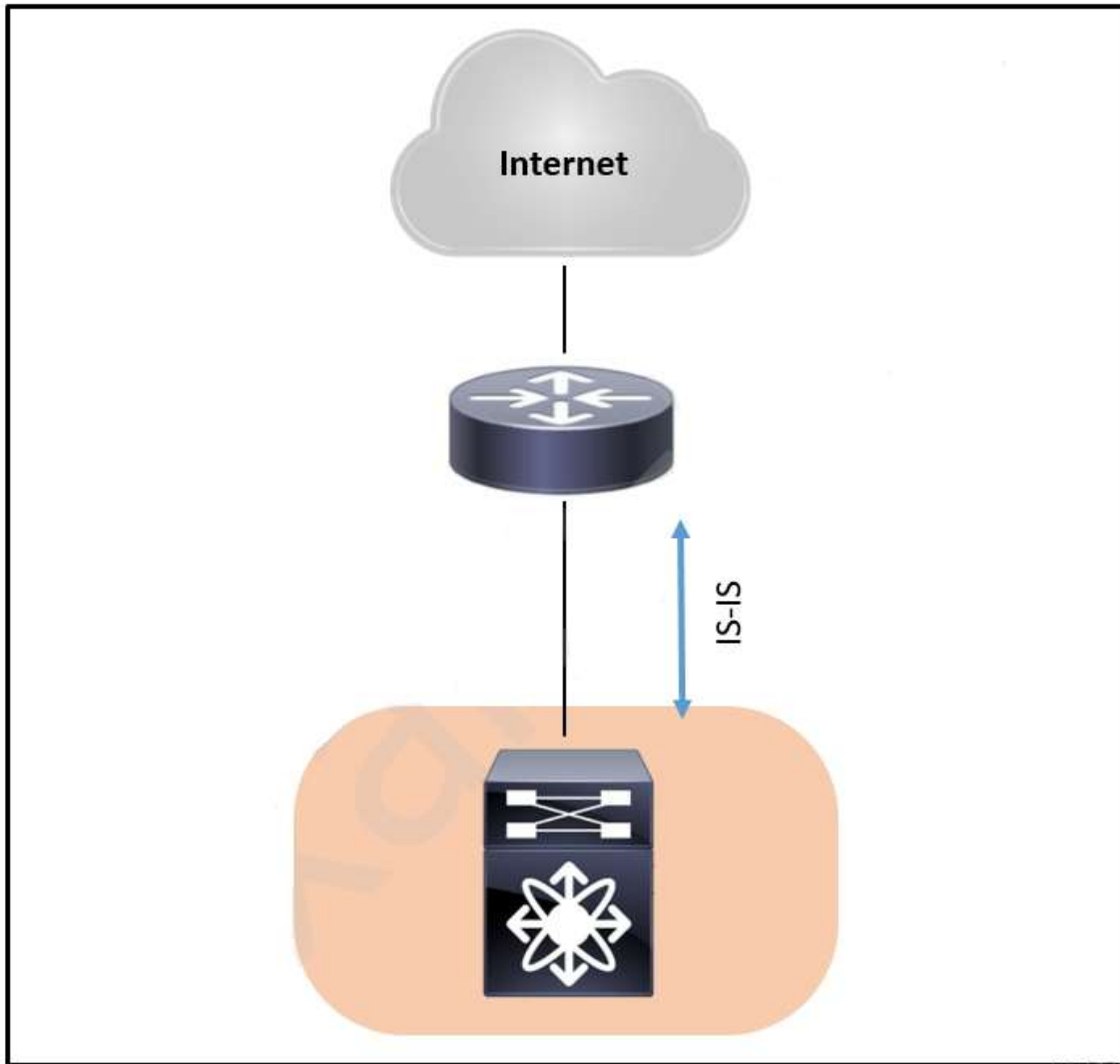


Answer:



QUESTION 179

Refer to the exhibit. A network engineer must improve the current IS-IS environment. The Catalyst switch is equipped with dual supervisors. Each time a stateful switchover occurs, the network experiences unnecessary route recomputation. Which solution addresses this issue if the upstream router does not understand graceful restart messaging?



- A. Enable IS-IS remote LFA FRR on both devices.
- B. Enable NSR on the switch.
- C. Enable NSF on the switch.
- D. Configure ISIS aggressive timers on both devices.

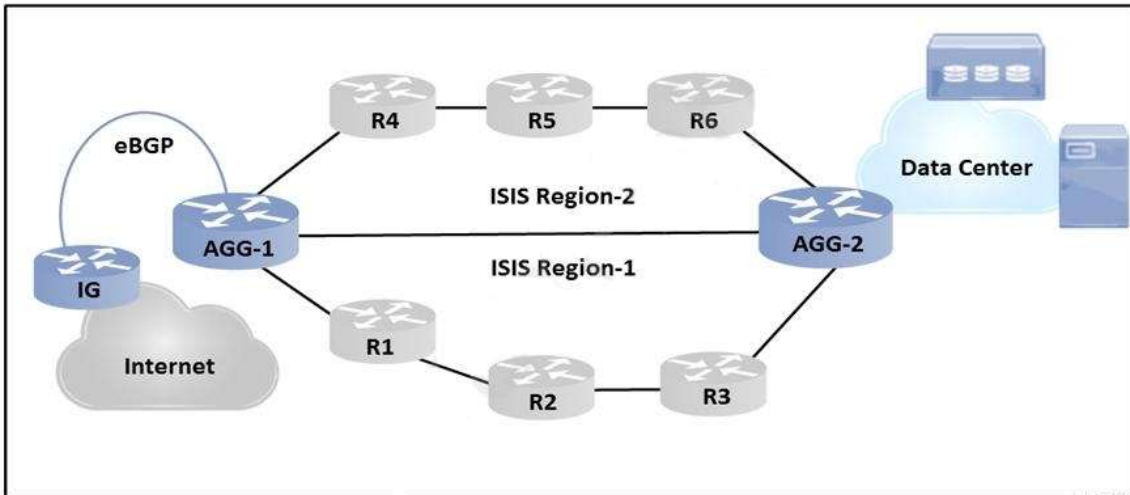
Answer: C

QUESTION 180

Refer to the exhibit. An architect must design an IGP solution for an enterprise customer. The design must support:

- Physical link flaps should have minimal impact.
- Access routers should converge quickly after a link failure.

Which two ISIS solutions should the architect include in the design? (Choose two.)

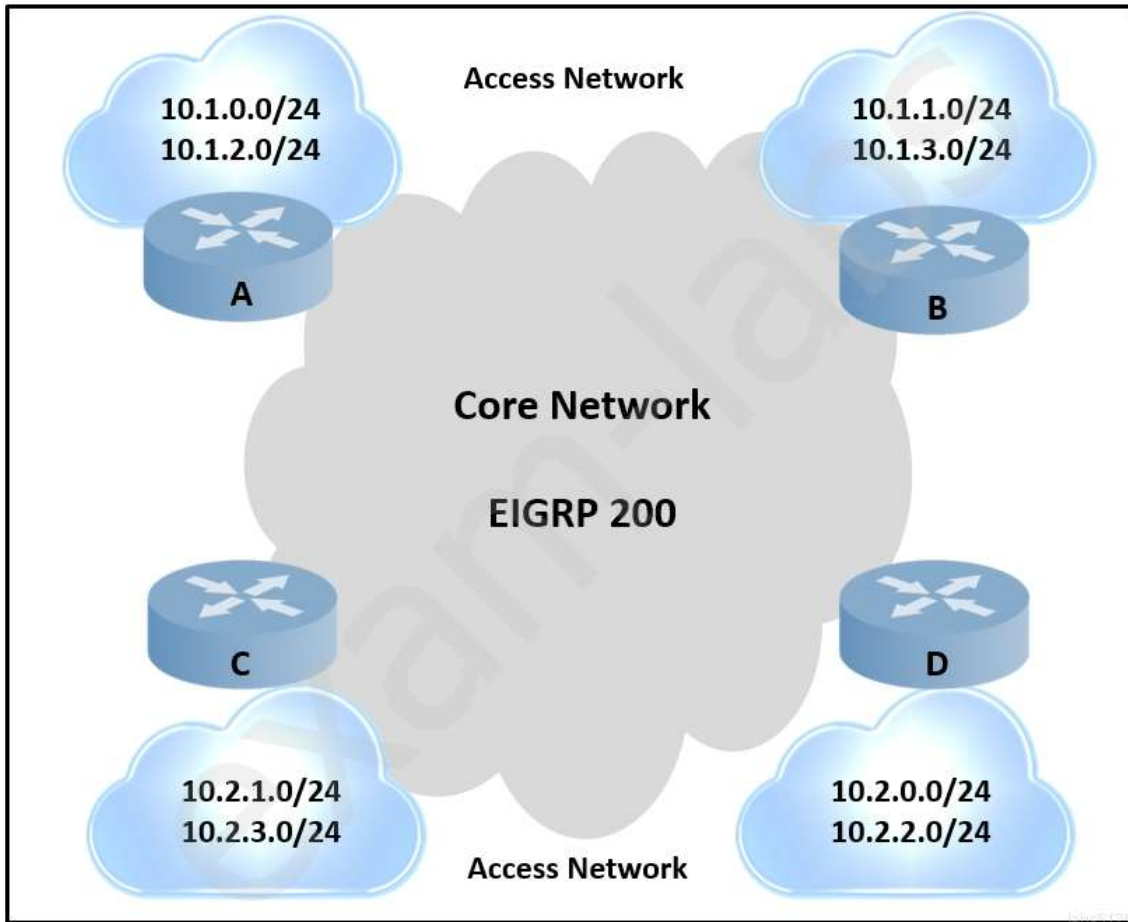


- A. Use BGP to IS-IS redistribution to advertise all Internet routes in the Level 1 area.
- B. Advertise the IS-IS interface and loopback IP address toward the Internet and data center.
- C. Reduce SPF and PRC intervals to improve convergence time.
- D. Configure all access and aggregate routers to establish Level 1 / Level 2 adjacencies across the network.
- E. Configure access routers to establish a Level 1 adjacency and aggregate routers to establish a Level 1 / Level 2 adjacency.

Answer: CD

QUESTION 181

Refer to the exhibit. An engineer is designing a routing solution for a customer. The design must ensure that a failure of network 10.1.0.0/24, 10.1.2.0/24, 10.2.1.0/24, or 10.2.3.0/24 does not impact the core. It also requires fast convergence time during any link failover in the core or access networks. Which solution must the engineer select?

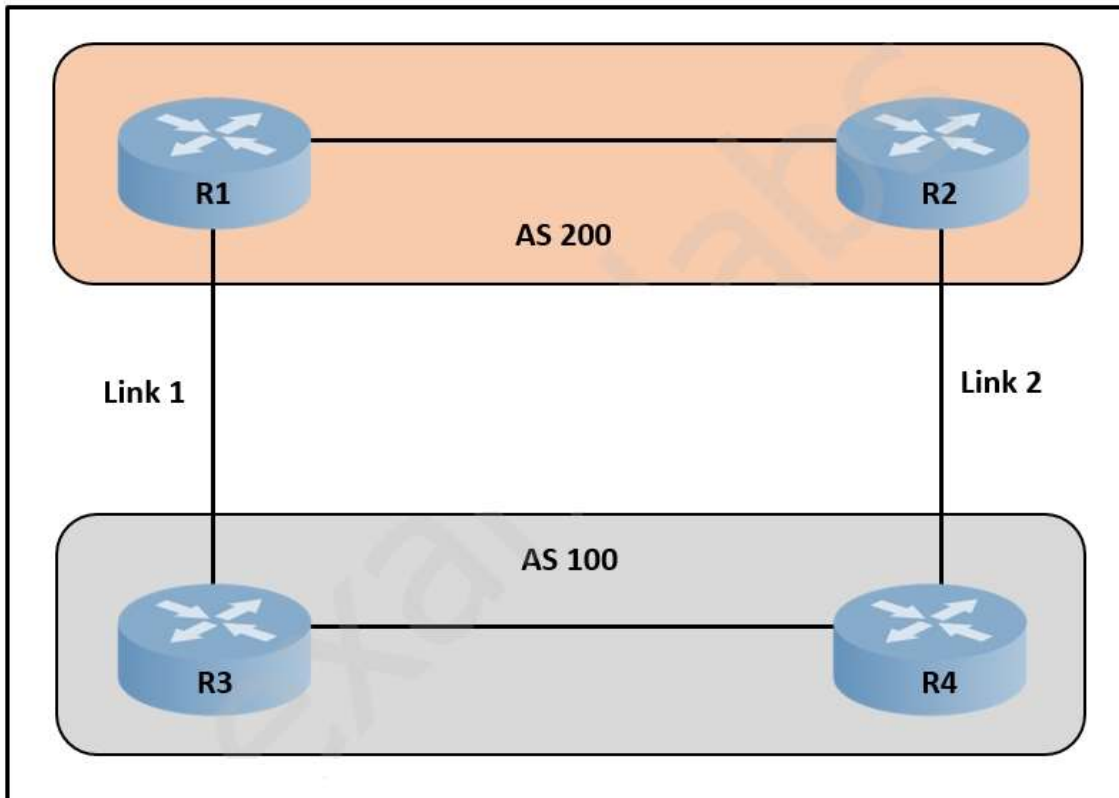


- A. Add aggregation layer between core and access networks.
- B. Enable graceful restart on routers A and C.
- C. Enable FRR for the connected networks of routers A and C.
- D. Enable summarization on routers A and C.

Answer: C

QUESTION 182

Refer to the exhibit. A network engineer is designing a network for AS100. The design should ensure that all traffic enters AS100 via link 1 unless there is a network failure. In the event of a failure, link 2 should function as the path for incoming traffic. Which solution should the design include?

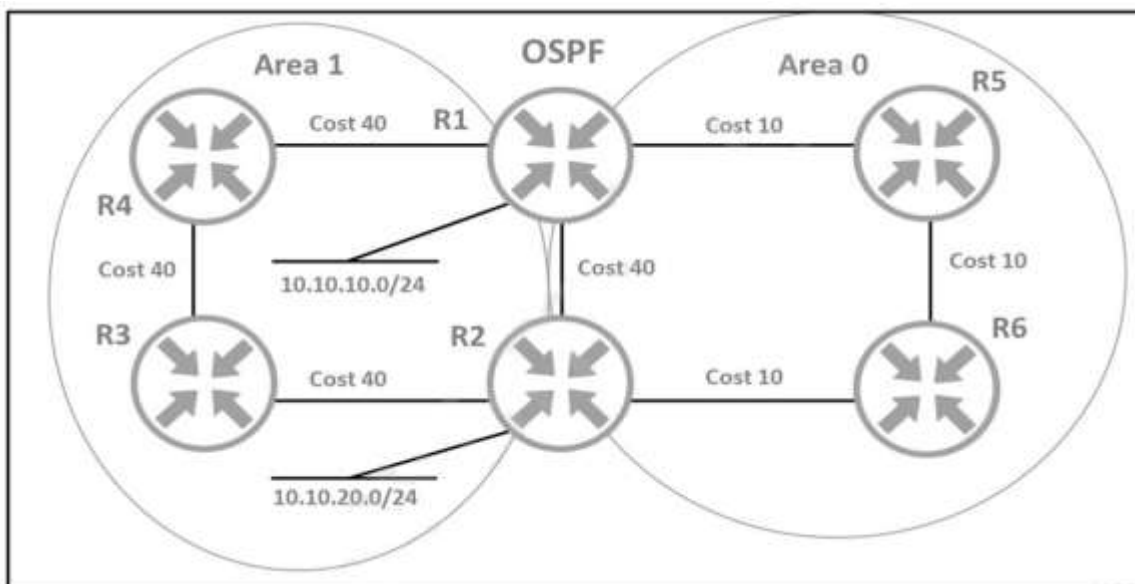


- A. Modify the next-hop attribute on R3.
- B. Use AS-Path prepending on R3.
- C. Modify the next-hop attribute on R4.
- D. Use AS-Path prepending on R4.

Answer: D

QUESTION 183

Refer to the exhibit. An architect must design a solution that uses the direct link between R1 and R2 for traffic from 10.10.10.0/24 toward network 10.10.20.0/24. Which solution should the architect include in the design?

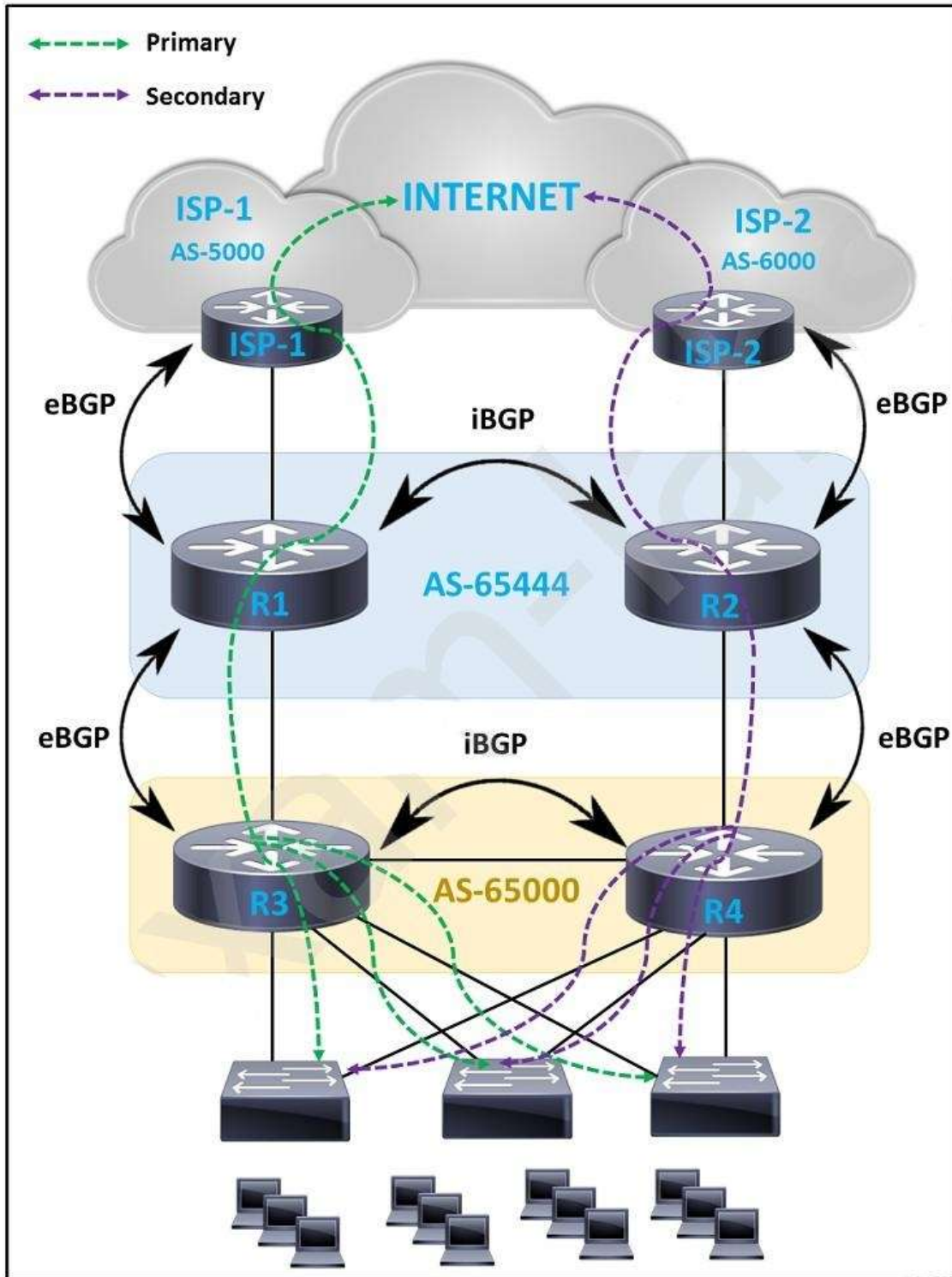


- A. Configure the OSPF cost of the link to a value lower than 30.
- B. Lower the Administrative Distance for OSPF area 0.
- C. Place the link into area 2 and install a new link between R1 and R2 in area 0.
- D. Configure the link to provide multiarea adjacency.

Answer: A

QUESTION 184

Refer to the exhibit. An engineer must design a WAN solution so that ISP-1 is always preferred over ISP-2. The path via ISP-2 is considered as a backup and must be used only when the path to ISP-1 is down. Which solution must the engineer choose?



- A. R1:
- Routes advertised to ISP-1: 0x AS-path prepend
 - Routes received from ISP-1: HIGH local-preference
 - Routes advertised to R2: no action
 - Routes received from R2: community NO-EXPORT
- R2:
- Routes advertised to ISP-2: 5x AS-path prepend
 - Routes received from ISP-2: LOW local-preference

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- Routes advertised to R1: community NO-ADVERTISE
 - Routes received from R1: no action
- B. R1:
- Routes advertised to ISP-1: 0x AS-path prepend
 - Routes received from ISP-1: HIGH local-preference
 - Routes advertised to R2: community NO-EXPORT
 - Routes received from R2: no action
- R2:
- Routes advertised to ISP-2: 5x AS-path prepend
 - Routes received from ISP-2: LOW local-preference
 - Routes advertised to R1: no action
 - Routes received from R1: no action
- C. R1:
- Routes advertised to ISP-1: 0x AS-path prepend
 - Routes received from ISP-1: LOW local-preference
 - Routes advertised to R2: community NO-ADVERTISE
 - Routes received from R2: no action
- R2:
- Routes advertised to ISP-2: 5x AS-path prepend
 - Routes received from ISP-2: HIGH local-preference
 - Routes advertised to R1: no action
 - Routes received from R1: community NO-ADVERTISE
- D. R1:
- Routes advertised to ISP-1: 5x AS-path prepend
 - Routes received from ISP-1: LOW local-preference
 - Routes advertised to R2: community NO-ADVERTISE
 - Routes received from R2: no action
- R2:
- Routes advertised to ISP-2: 0x AS-path prepend
 - Routes received from ISP-2: HIGH local-preference
 - Routes advertised to R1: community NO-EXPORT
 - Routes received from R1: no action

Answer: B

QUESTION 185

Which topology within a network underlay eliminates the need for first hop redundancy protocols while improving fault tolerance, increasing resiliency, and simplifying the network?

- A. virtualized topology
- B. routed access topology
- C. Layer 2 topology
- D. logical fabric topology

Answer: D