

➤ **Vendor: Cisco**➤ **Exam Code: 300-420**➤ **Exam Name: Designing Cisco Enterprise Networks (ENSLD)**➤ **New Updated Questions from [Braindump2go](#) (Updated in [March/2021](#))****Visit Braindump2go and Download Full Version 300-420 Exam Dumps****QUESTION 92**

An architect is designing a multicast solution for a network that contains over 100 routers. The architect plans to create several multicast domains and balance the PIM-SM traffic within the network. Which technology should the architect include in the design?

- A. DVMRP
- B. IGMP
- C. MOSPF
- D. MSDP

Answer: D**QUESTION 93**

An architect is designing a network that will utilize the spanning tree protocol to ensure a loop-free topology. The network will support an engineering environment where it is necessary for end users to connect their own network switches for testing purposes. Which feature should the architect include in the design to ensure the spanning tree topology is not affected by these rogue switches?

- A. BPDU Skew Detection
- B. BPDU guard
- C. loop guard
- D. root guard

Answer: D**QUESTION 94**

An engineer is designing a Layer 3 campus network running EIGRP between the core, aggregation, and access layers. The access layer switches will be connected to the aggregation layer using Layer 3 copper connections. The engineer wants to improve convergence time for access layer switch failures. Which technique must the design include?

- A. enabling BFD for EIGRP on the access layer uplinks
- B. reducing the EIGRP Hello / Hold timer values
- C. EIGRP summarization from core to aggregation layer
- D. EIGRP summarization from access to aggregation layer

Answer: A**QUESTION 95**

An engineer must design a solution to provide backup connectivity between two sites. The engineer plans to use an Internet connection but company policy requires the connection to be encrypted. Additionally, there are several applications that utilize multicast to deliver video streams between the sites. Which technology should the design

[300-420 Exam Dumps](#) [300-420 Exam Questions](#) [300-420 PDF Dumps](#) [300-420 VCE Dumps](#)

<https://www.braindump2go.com/300-420.html>

include?

- A. GRE over IPsec
- B. IPsec direct encapsulation
- C. GETVPN
- D. DMVPN

Answer: A

QUESTION 96

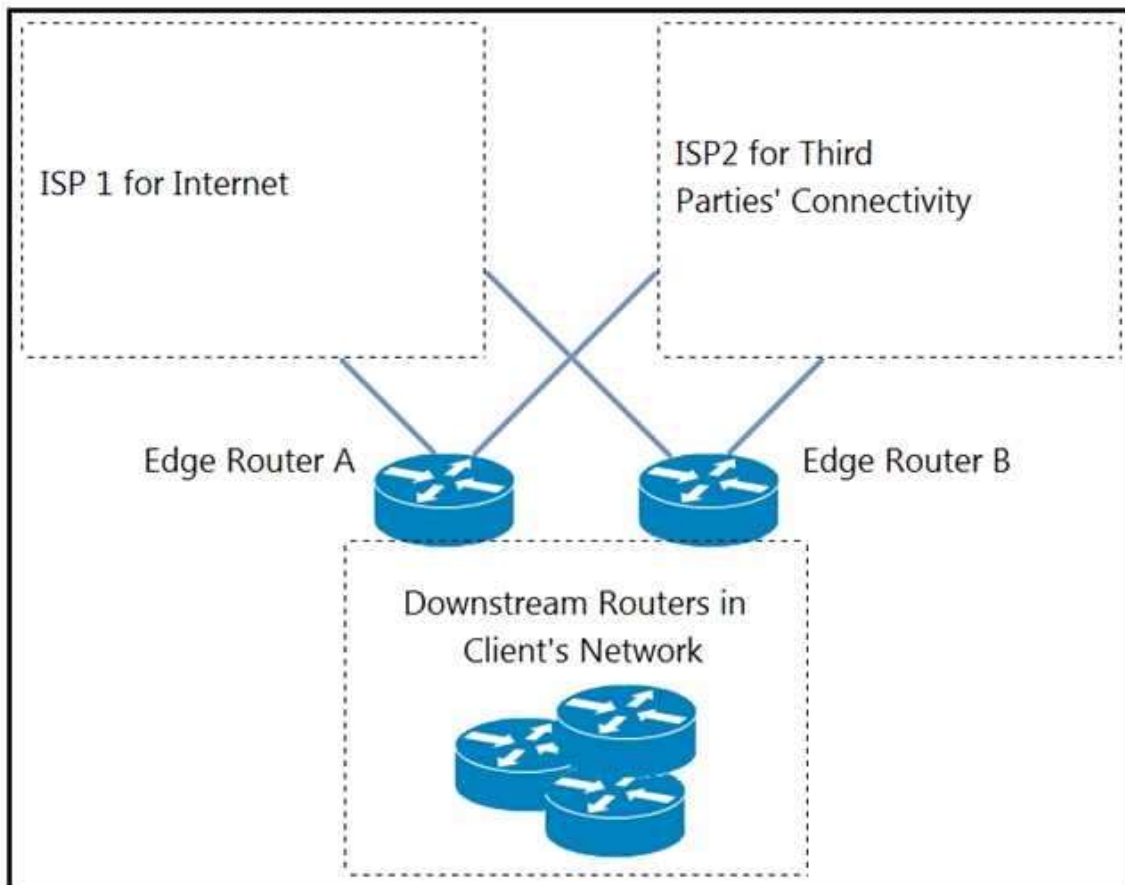
An existing network solution is using BFD in echo mode. Several of the network devices are experiencing high CPU utilization which an engineer has determined is related to the BFD feature. Which solution should the engineer leverage to reduce the CPU load?

- A. Implement slow timers between peers with low CPU resources.
- B. Implement BED asynchronous mode between peers with low CPU resources.
- C. Enable BFD multi-hop on the devices with low CPU resources.
- D. Utilize carrier delay on all routers in the network.

Answer: A

QUESTION 97

Refer to the exhibit. An engineer is designing a BGP solution for a client that peers with ISP1 for full Internet connectivity and with ISP2 for direct exchange of routes for several third parties. Which action, when implemented on the edge routers, enables the client network to reach the Internet through ISP1?



- A. Run an eBGP session within different VRFs for each ISP.
- B. Advertise a default route for downstream routers within the client network.

[300-420 Exam Dumps](#) [300-420 Exam Questions](#) [300-420 PDF Dumps](#) [300-420 VCE Dumps](#)

<https://www.braindump2go.com/300-420.html>

- C. Apply the AS path prepend feature for ISP2.
- D. Apply route filtering such that the client advertises only routes originated from its own AS.

Answer: B

QUESTION 98

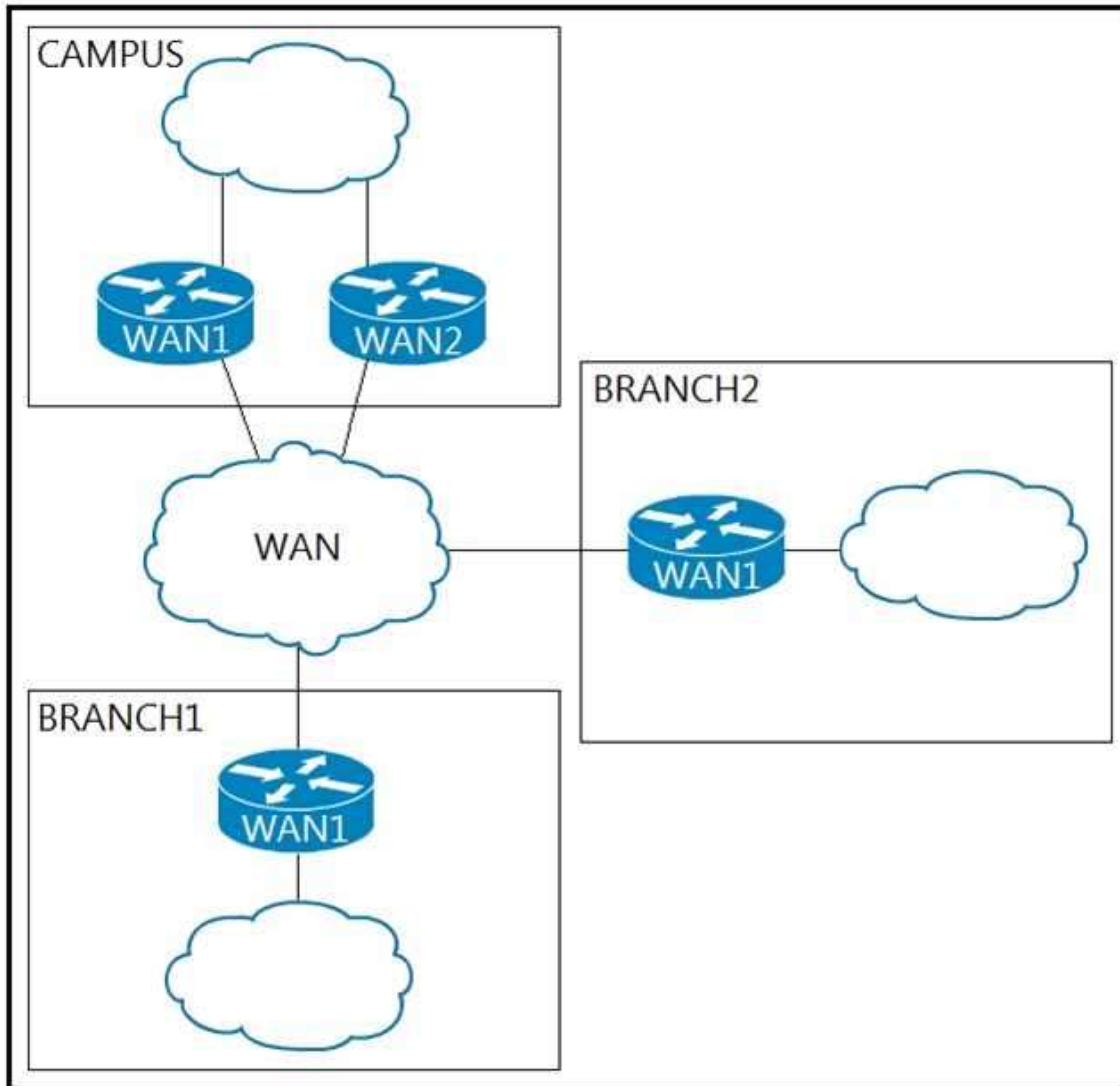
An architect is working on a design to connect a company's main site to several small to medium- sized remote branches. The solution must include redundant WAN links, but the customer has a limited budget and wants the ability to increase the link speed easily in the future. QoS will not on the branch routers so there is no need for consistent end-to-end QoS. Which solution does the architect propose?

- A. dual-homed WAN MPLS with single edge router
- B. dual-homed Internet with a single edge router running a site-to-site VPN topology
- C. dual-homed WAN MPLS and Internet links via dual edge routers
- D. dual-homed Internet with dual edge routers running a hub-and-spoke VPN topology

Answer: B

QUESTION 99

Refer to the exhibit. An architect must design an IP addressing scheme for a multisite network connected via a WAN transit. The campus site must accommodate 12,000 devices and the branch sites must accommodate 1,000 devices. Which address scheme optimizes network device resources, contains convergence events to the different blocks of the network, and ensures future growth of the network?



- A. Campus: 10.0.0.0/18
Branch1: 10.0.192.0/21
Branch2: 10.0.200.0/21
- B. Campus: 10.0.0.0/16
Branch1: 10.255.0.0/20
Branch2: 10.255.16.0/20
- C. Campus: 10.0.0.0/10
Branch1: 10.64.0.0/10
Branch2: 10.128.0.0/10
- D. Campus: 10.0.0.0/20
Branch1: 10.0.64.0/21
Branch2: 10.0.128.0/21

Answer: A

QUESTION 100

An engineer must design a solution to connect a customer to the Internet. The solution will include a Layer 3 circuit with a CIR of 50 Mbps from the service provider. The hand-off from the provider's switch to the customer's router is 1Gbps. Which solution should the engineer include to prevent potential issues with choppy voice traffic?

- A. Reduce the bandwidth of the connection to the router.

[300-420 Exam Dumps](#) [300-420 Exam Questions](#) [300-420 PDF Dumps](#) [300-420 VCE Dumps](#)

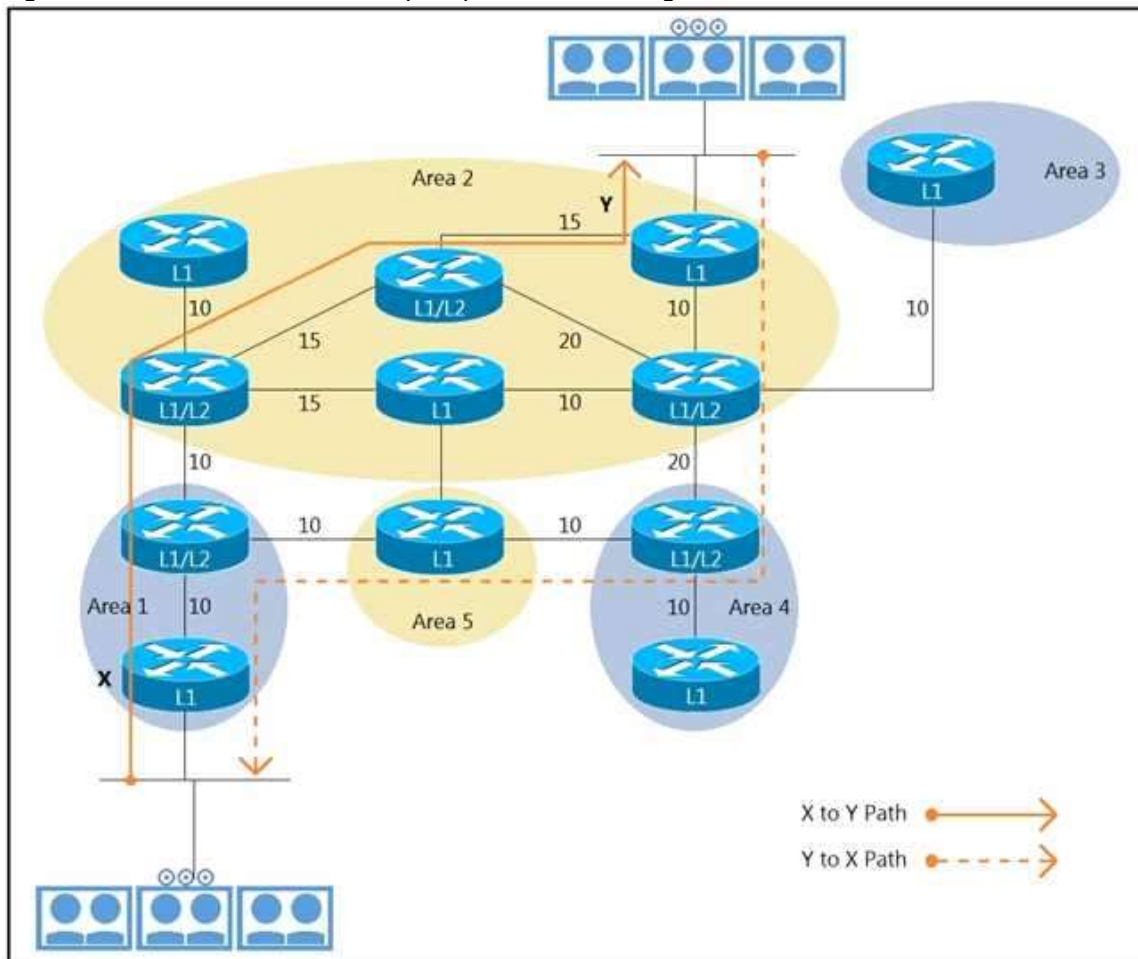
<https://www.braindump2go.com/300-420.html>

- B. Implement hierarchical QoS with a parent policing policy.
- C. Implement hierarchical QoS with a parent shaping policy
- D. Add a bandwidth statement to the router interface.

Answer: C

QUESTION 101

Refer to the exhibit. Customers report low video quality and delays when having point-to-point telepresence video calls between the two locations. An architect must optimize a design so that traffic follows the same path for egress and ingress traffic flows. Which technique optimizes the design?



- A. Configure route leaking on the router in area 2.
- B. Configure route leaking on the router in area 1.
- C. Configure the high metric on the router in area 4.
- D. Configure route filter on the router in area 4.

Answer: C

QUESTION 102

An engineer must design a scalable QoS architecture that allows the separation of the traffic into classes on predefined business requirements. The design must also utilize the differentiated services code points as the QoS priority descriptor value and support at least 10 levels of classification. Which QoS technology should the engineer include in the design?

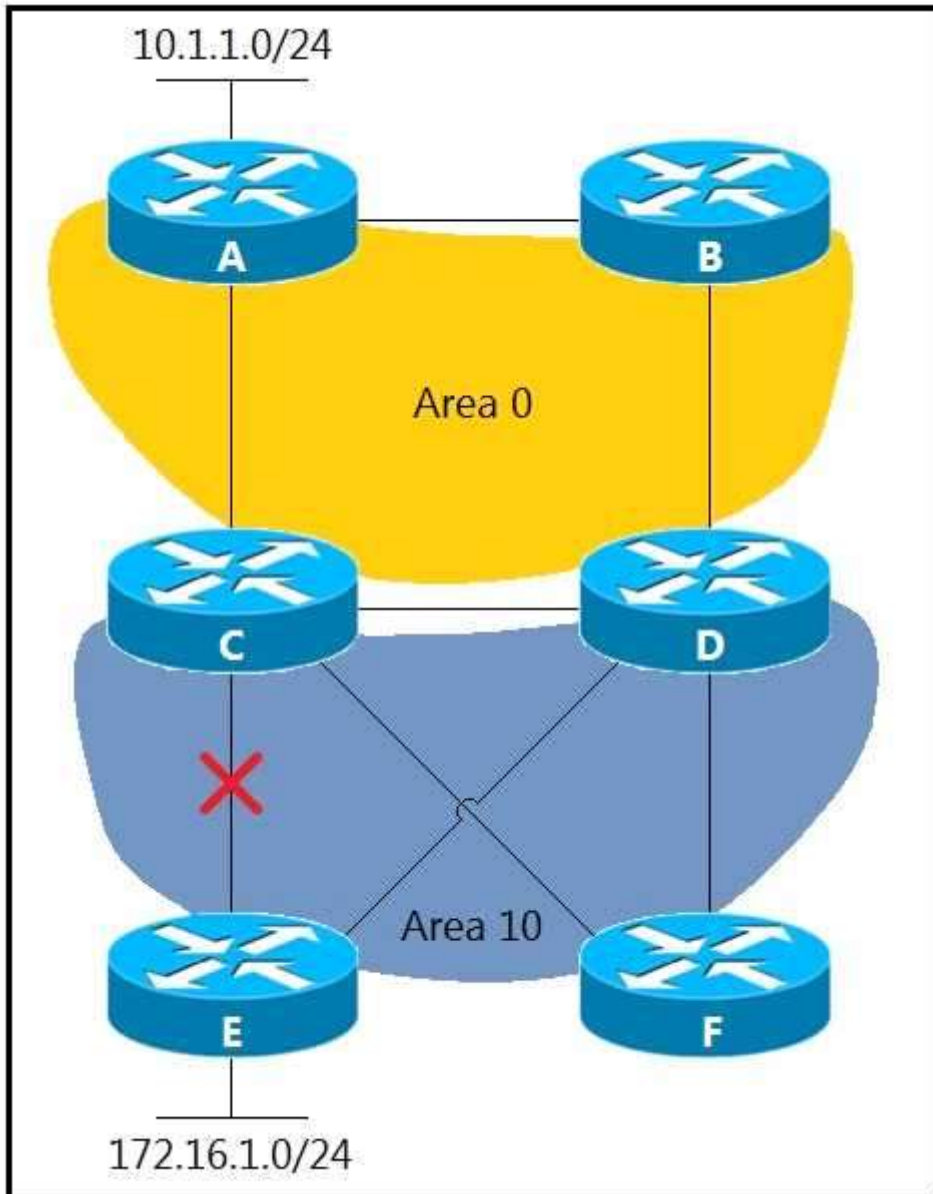
- A. RSVP
- B. DiffSery

- C. Best Effort
- D. InterServ

Answer: B

QUESTION 103

Refer to the exhibit. Area 10 is a regular OSPF area and networks 10.1.1.0/24 and 172.16.1.0/24 are internal. Which design provides optimal routing between both networks when the link between routers C and E fails?



- A. Move the link between routers C and D to area 10.
- B. Create an OSPF virtual link between routers E and F.
- C. Create a tunnel between routers E and F in area 10.
- D. Make area 10 a not-so-stubby area.

Answer: A

QUESTION 104

An architect is creating a migration strategy for a large organization in which the choice made by the application

[300-420 Exam Dumps](#) [300-420 Exam Questions](#) [300-420 PDF Dumps](#) [300-420 VCE Dumps](#)

<https://www.braindump2go.com/300-420.html>

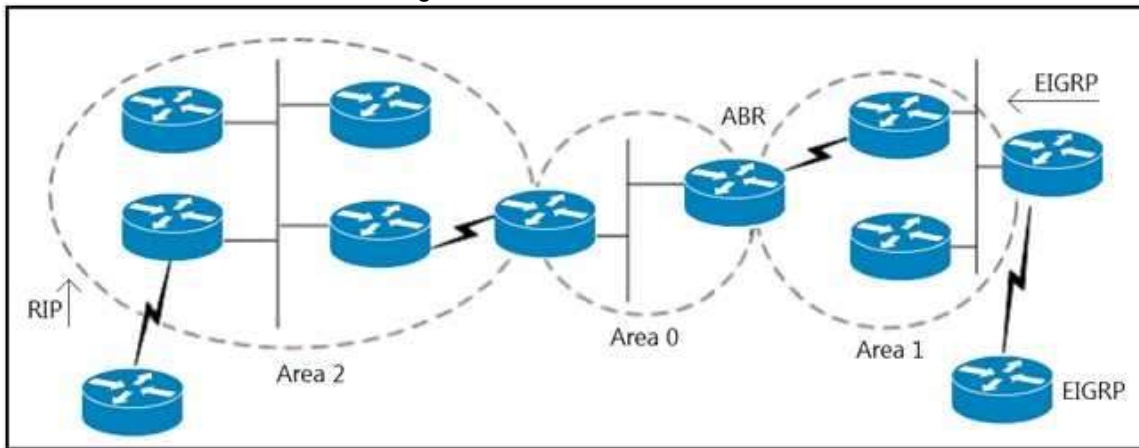
between IPv6 and IPv4 is based on the DNS request. Which migration strategy does the architect choose?

- A. AFT for public web presence
- B. host-initiated tunnels
- C. dual stack
- D. site-to-site IPv6 over IPv4 tunnels

Answer: C

QUESTION 105

Refer to the exhibit. An engineer is designing an OSPF network for a client. Requirements dictate that the routers in Area 1 should receive all routes belonging to the network, including EIGRP, except the ones originated in the RIP domain. Which action should the engineer take?



- A. Make area 1 a NSSA.
- B. Make area 1 a stub.
- C. Make area 1 a standard OSPF area.
- D. Make the area 1 routers part of area 0.

Answer: B

QUESTION 106

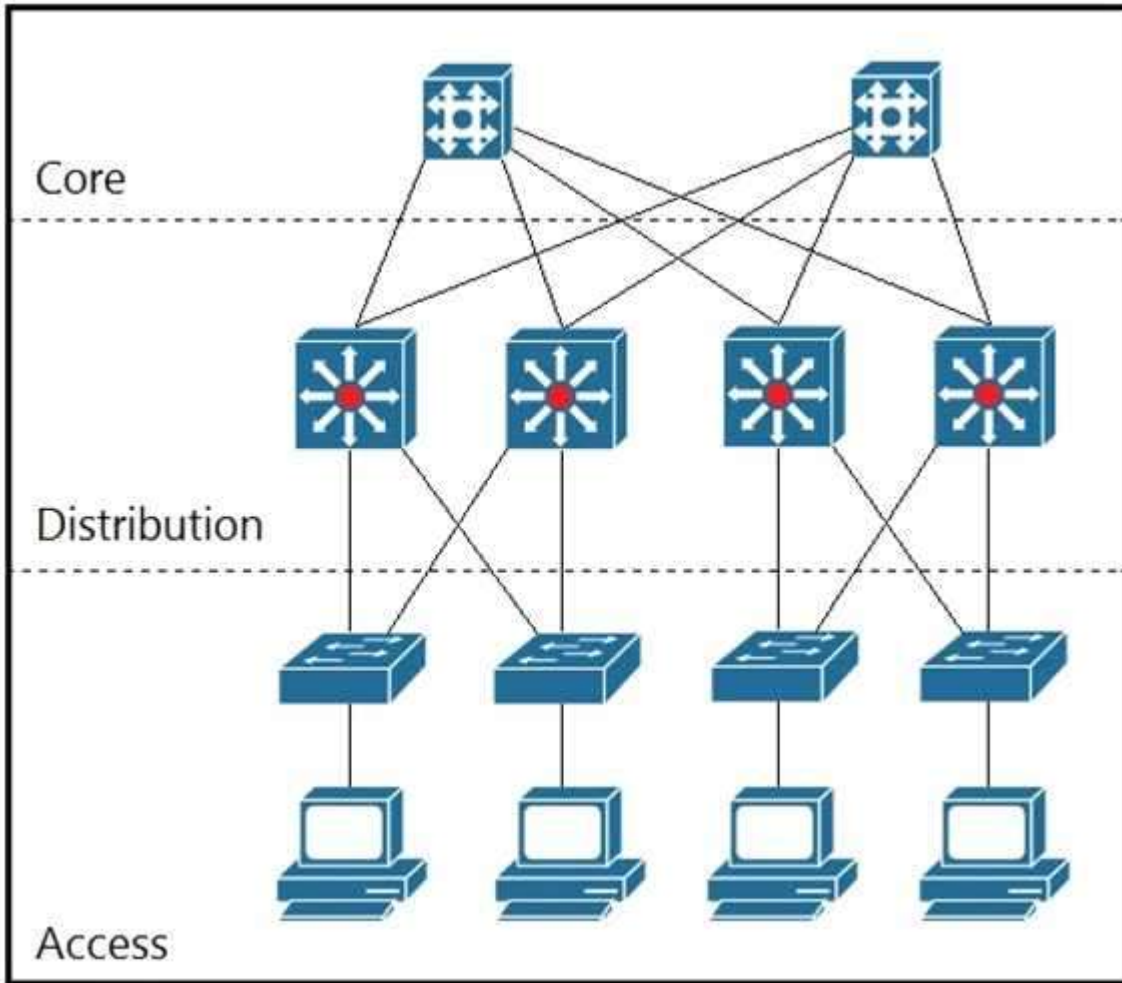
An engineer must propose a solution for a campus network that includes the capability to create multiple Layer 3 virtual networks. Each network must have its own addressing structure and routing table for data forwarding. The solution must be scalable to support hundreds of virtual networks and allow simple configuration and management with minimal administrative overhead. Which solution does the engineer recommend?

- A. hop-by-hop EVN
- B. multihop MPLS core
- C. multihop IPsec tunneling
- D. hop-by-hop VRF-Lite

Answer: A

QUESTION 107

Refer to the exhibit. Which two solutions maximize the use of the links between the core and distribution layers? (Choose two.)



- A. use multiple equal-cost links
- B. use an IGP
- C. use HSRP
- D. use RPVSTP+
- E. use multiple unequal-cost links

Answer: AB

QUESTION 108

An engineer is tasked with designing a dual BGP peering solution with a service provider. The design must meet these conditions:

- The routers will not learn any prefix with a subnet mask greater than /24.
- The routers will determine the routes to include in the routing table based on the length of the mask alone.
- The routers will make this selection regardless of the service provider configuration.

Which solution should the engineer include in the design?

- A. Use a route map and access list to block the desired networks, and apply the route map to BGP neighbors inbound.
- B. Use a route map and prefix list to block the desired networks, and apply the route map to BGP neighbors outbound.
- C. Use an IP prefix list to block the desired networks and apply the IP prefix list to BGP neighbors outbound.
- D. Use an IP prefix list to block the desired networks and apply the IP prefix list to BGP neighbors inbound.

Answer: D

QUESTION 109

An engineer is designing an EIGRP network for a small branch site where there is only one Layer 3 router. The engineer wants the router to advertise the local LAN network to remote EIGRP neighbors without sending any unnecessary multicast messages on the local LAN. Which action should the engineer take?

- A. Use a static default route for this site instead of EIGRP
- B. Advertise the local LAN using the network command and the passive-interface feature
- C. Redistribute the local LAN network using the redistribute connected command
- D. Advertise the local LAN subnet as a stub network

Answer: B

QUESTION 110

A network engineer is redesigning a company's QoS solution. The company is currently using IP Precedence, but the engineer plans to move to DiffServ. It is important that the new solution provide backward compatibility with the current solution. Which technology should the design include?

- A. expedited forwarding
- B. assured forwarding
- C. class selector code points
- D. default per hop behavior

Answer: C

QUESTION 111

A customer's current Layer 2 infrastructure is running Spanning Tree 802.1d, and all configuration changes are manually implemented on each switch. An architect must redesign the Layer 2 domain to achieve these goals:

- reduce the impact of topology changes
- reduce the time spent on network administration
- reduce manual configuration errors

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

- A. Implement Rapid PVST+ instead of STP.
- B. Implement MST instead of STP.
- C. Use VTP to propagate VLAN information and to prune unused VLANs.
- D. Configure broadcast and multicast storm control on all switches.
- E. Configure dynamic trunking protocol to propagate VLAN information.

Answer: CD

QUESTION 112

How is sub-second failure of a transport link detected in a Cisco SD-WAN network?

- A. Hellos are sent between the WAN Edge routers and the vSmart controller.
- B. BFD runs on the IPsec tunnels between WAN Edge routers.
- C. BGP is used between WAN Edge routers and the vSmart controller.
- D. Link state change messages are sent between vSmart controllers.

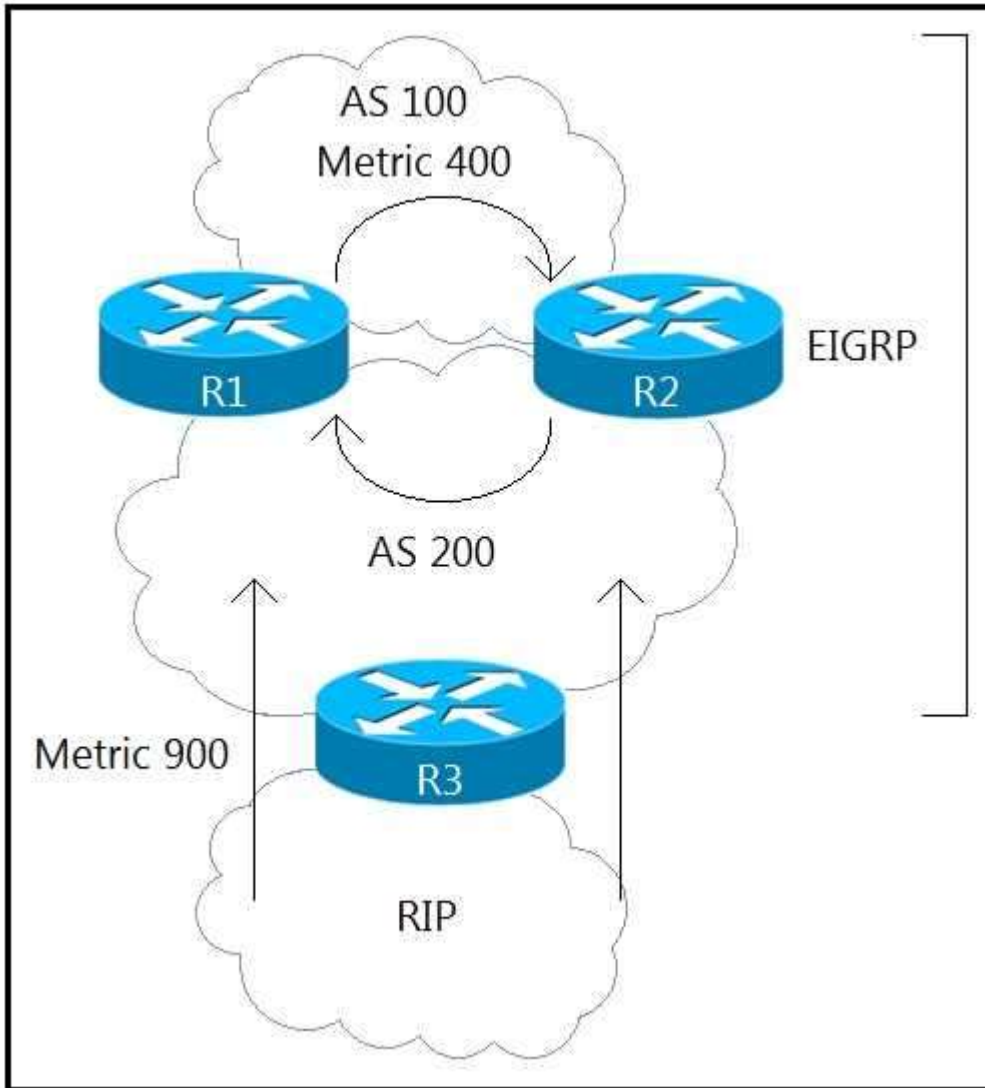
Answer: B

QUESTION 113

Refer to the exhibit. An architect must design a solution to connect the network behind R3 with the EIGRP network. Which mechanism should be included to avoid routing loops?

[300-420 Exam Dumps](#) [300-420 Exam Questions](#) [300-420 PDF Dumps](#) [300-420 VCE Dumps](#)

<https://www.braindump2go.com/300-420.html>



- A. down bit
- B. split horizon
- C. route tags
- D. summarization

Answer: C

QUESTION 114

Drag and Drop Question

An engineer must design an addressing plan for a small business using a single /24 network. Each department must have its own subnet. Drag and drop the subnets from the left onto the departments requirements that they fulfill on the right. Not all options are used.

Answer:



Braindump2go Guarantee All Exams 100% Pass
One Time!

10.1.1.112/29

10.1.1.64/27

10.1.1.0/26

10.1.1.96/28

QUESTION 115

Drag and Drop Question

Drag and drop the characteristics from the left onto the Yang model they describe on the right.

- independent of the underlying operating system
- specific to the underlying operating system
- vendor neutral
- provided by the vendor for device management

Open Model

Native Model

Answer:

The diagram is a vertical rectangle divided into two main sections. The top section has an orange header bar with the text 'Open Model'. Below this header are two light blue boxes with black borders. The first box contains the text 'independent of the underlying operating system', and the second box contains 'vendor neutral'. The bottom section has an orange header bar with the text 'Native Model'. Below this header are two light blue boxes with black borders. The first box contains the text 'specific to the underlying operating system', and the second box contains 'provided by the vendor for device management'.

Open Model
independent of the underlying operating system
vendor neutral

Native Model
specific to the underlying operating system
provided by the vendor for device management

QUESTION 116

Drag and Drop Question

Drag and drop the model driven telemetry characteristics from the left onto the mode they belong to on the right.

Updates are sent to the collector.

Updates are sent to the subscriber.

Subscriptions must be re-initiated after a reload.

Subscriptions are part of the device's configuration.

Dial-in

Dial-out

Answer:

Dial-in

Updates are sent to the subscriber.

Subscriptions must be re-initiated after a reload.

Dial-out

Updates are sent to the collector.

Subscriptions are part of the device's configuration.