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NEW QUESTION: 1

A network is designed to use OSPF to reach eBGP peers. For eBGP peers to stay stable in case of a link failure, what condition should be avoided?

- A. Advertise IP addresses used on eBGP peer statements via eBGP
- B. Use an ACL to block BGP in one direction
- C. Advertise IP addresses used on eBGP statements via a normal OSPF area
- D. Disable BGP synchronization

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 2

You are the Cisco Network Designer in P4S. What is the term for a logical SAN which provides isolation among devices physically connected to the same fabric?

- A. InterSwitch Link
- B. Virtua LAN
- C. Virtual Output Queuing
- D. virtual storage area network

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 3

A network designer decides to connect two labs together to test multicast features interoperability. Before the networks are connected together, the network administrator mentions that overlapping

multicast IP addresses between the two labs will cause issues because all the routers on the network are provisioned for Source-Specific Multicast using IGMPv3. Which statement about the connectivity of both multicast domains is true?

- A. IGMPv3 requires a unique RP when connecting both labs together
- B. IGMPv3 cannot support overlapping multicast IP addresses between the labs
- C. IGMPv3 requires NAT to support the overlapping multicast IP addresses between the labs
- D. IGMPv3 can support overlapping multicast IP addresses between the labs

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 4

How are community formats sent in SNMPv1 and SNMPv2c?

- A. In both protocols they are sent as clear text.
- B. In both protocols they are encrypted.
- C. In SNMPv1 they are sent as clear text and in SNMPv2c they are sent as part of an encrypted session.
- D. In SNMPv1 they are sent as clear text and in SNMPv2c they are encrypted.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 5

Refer to the exhibit.



If IEEE 802.1w is in use for this network design, what are two locations where spanningtree root can be placed to ensure the least-disruptive Layer 2 failover for clients within VLANs 3 and 4? (Choose two.)

- A. Switch C
- B. Switch B
- C. Switch D
- D. Switch A

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 6

In a large enterprise network with multiple data centers and thousands of access devices, OSPF is becoming unstable due to link flapping. The current design has the access devices multihomed to large aggregation routers at each of the data centers. How would you redesign the network to improve stability?

- A. Add a layer of regional Layer 3 aggregation devices and move the ABR function to the regional aggregation device.

B. Add a layer of regional Layer 2 aggregation devices and move the ABR function to the regional aggregation device.

C. Add a layer of regional Layer 3 aggregation devices, but leave the ABR function on the data center aggregation routers.

D. Add a layer of regional Layer 2 aggregation devices, but leave the ABR function on the data center aggregation routers.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 7

Which protocol does an SD-Access wireless Access Point use for its fabric data plane?

A. MPLS

B. GRE

C. LISP

D. VXLAN

E. CAPWAP

Answer: **D** ([LEAVE A REPLY](#))

NEW QUESTION: 8

A network engineering team is designing a lab network for a customer demonstration. The design engineer wants to show that the resiliency of the MPLS Traffic Engineering Fast Reroute solution has the same failover Tailback times as a traditional SONET/SDH network (around 50 msec). Which type of MPLS TE tunnel must be considered for this demonstration to address the link failure and node failure within the lab network?

A. FRR backup tunnel

B. next-hop tunnel

C. TE backup tunnel

D. next-next-hop tunnel

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 9

To improve the stability of a global network, you have been tasked with changing the design to include link-state topology summarization. What are two issues that you should address as part of the design? (Choose two.)

A. slow convergence

B. suboptimal routing

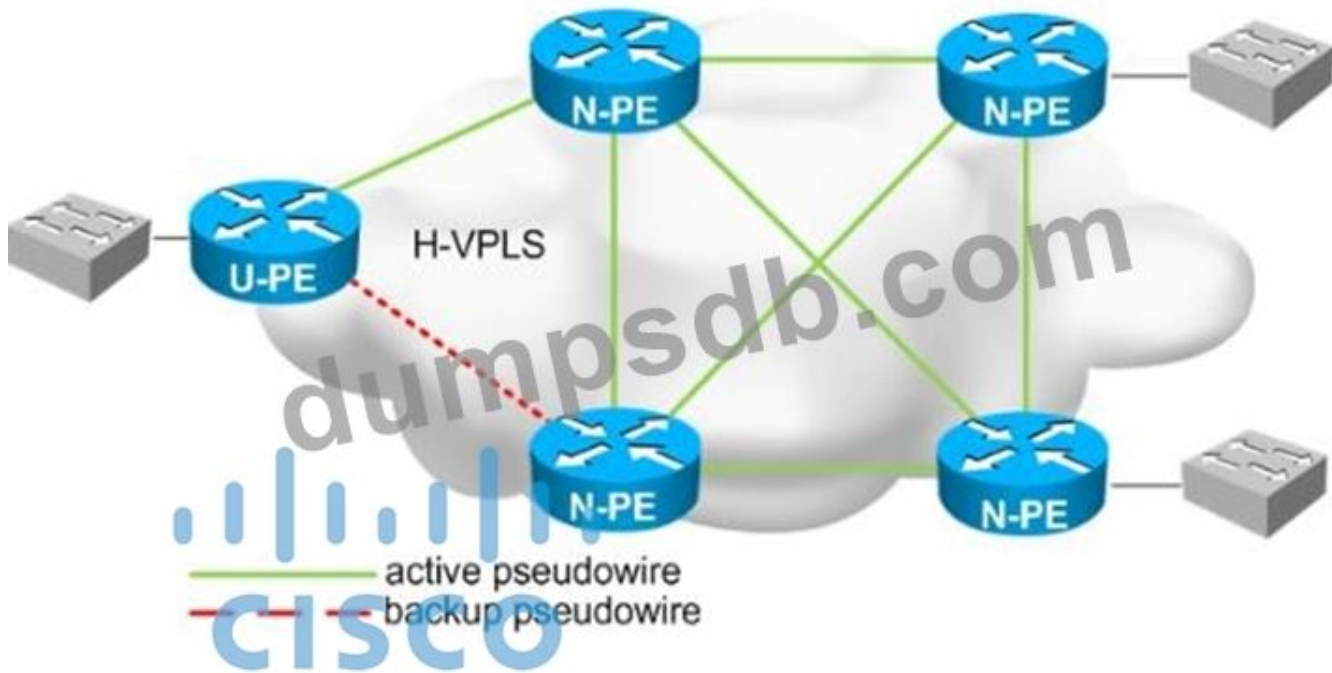
C. packet reordering

D. traffic black-holing

Answer: **B,D** ([LEAVE A REPLY](#))

NEW QUESTION: 10

Refer to the exhibit,



Which two design considerations should be implemented on the pseudowire between N-PE and U-PE routers for a loop-free hierarchical VPLS service? (Choose two)

- A. Disable MAC learning on the U-PE routers.
- B. Disable MAC learning on the U-PE router.
- C. Disable split horizon towards the U-PE router.
- D. Disable MAC learning on the U-PE routers.
- E. Disable split horizon toward the N-PE routers.
- F. Enable split horizon towards the U-PE routers.
- G. Enable split horizon towards the N-PE routers.

Answer: C,G (LEAVE A REPLY)

NEW QUESTION: 11

A switched network is being deployed on a factory floor. Due to cost constraints, fiber-based connectivity is not an option. Which design allows for a stable network when there is a risk of interference from the manufacturing hardware in use on the factory floor?

- A. Design the network to include UDLD to detect unidirectional links and take them out of service
- B. Design the network to include EtherChannel bundles to prevent a single-link failure from taking down a switch interconnection point
- C. Design the network to include backbone fast on all devices to accelerate failure convergence times
- D. Design the network to include loop guard to prevent a loop in the switched network when a link has too much interference

Answer: A (LEAVE A REPLY)

NEW QUESTION: 12

Currently a service provider provides IPv4 traceroute services between MPLS PE routers.

The provider wants to implement IPv6 with MPLS 6PE/6VPE and then provide parallel IPv6 traceroute services between MPLS PE routers. Which two design solutions provide this service? (Choose two.)

- A. The PE routers must support full IPv6.
- B. The P routers must support ICMPv6.
- C. The P routers must support full IPv6.
- D. The PE routers must support ICMPv6.

Answer: A,D ([LEAVE A REPLY](#))

NEW QUESTION: 13

A service provider hires you to design its new managed CE offering to meet these requirements

- * The CEs cannot run a routing protocol with the PE
- * Provide the ability for equal or unequal ingress load balancing in dual-homed CE scenarios.
- * Provide support for IPv6 customer routes
- * Scale up to 250,000 CE devices per customer.
- * Provide low operational management to scale customer growth.
- * Utilize low-end (inexpensive) routing platforms for CE functionality.

Which tunneling technology do you recommend?

- A. LISP
- B. FlexVPN
- C. DMVPN
- D. point-to-point GRE

Answer: ([SHOW ANSWER](#))

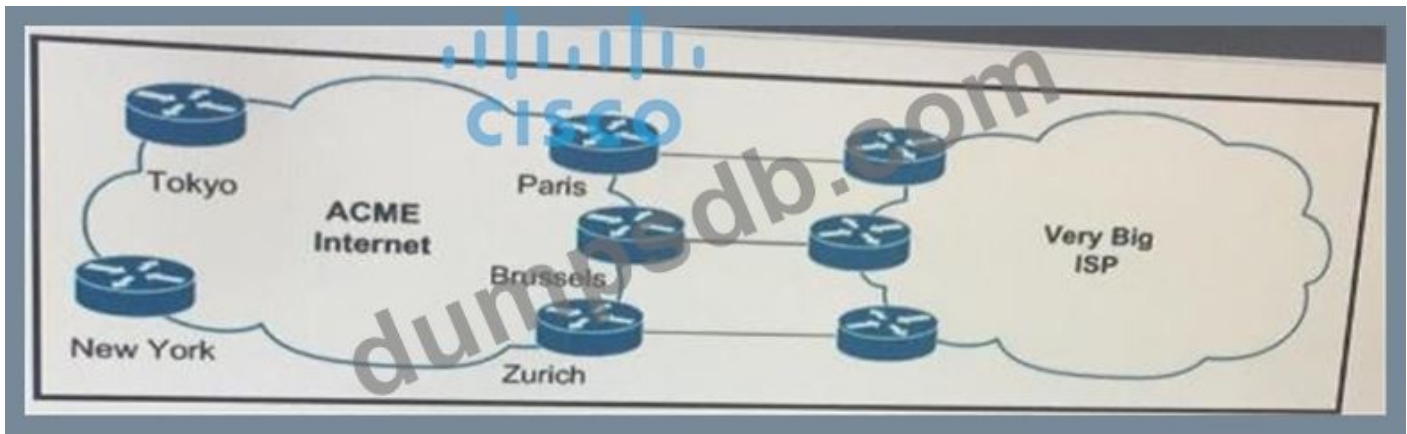
NEW QUESTION: 14

Which two options are considered risks or concerns when both the Internet and VPN service functions are on the same PE router? (Choose two.)

- A. Customer performance can be affected by VPN traffic if Internet-based traffic is not prioritized on the P
- B. MP-BGP prefixes increase routers' global routing tables, which affects network convergence.
- C. BGP cannot simultaneously run on the PE router that runs MPLS.
- D. Internet-based attacks can affect VPN customers.
- E. Failure on the PE router affects both VPN and Internet services.

Answer: D,E ([LEAVE A REPLY](#))

NEW QUESTION: 15



Refer to the exhibit. The service provider ACME Internet just added a 100Gbps peering in Paris to use as the default for inbound traffic from Very Big ISP. Which routing policy achieves the desired outcome?

- A. Apply an export policy that only permits a default route in Brussels and Zurich
- B. Apply an export policy in New York and Tokyo that adds a Weight attribute to routes sent to Very Big ISP via Paris
- C. Apply an export policy in Paris by applying a MED or Community attribute with a preference More Preferred than Very Big ISP ads upon
- D. Use traffic engineering by injecting a preferred LocalPref attribute to routes advertised to Very Big ISP in Paris

Answer: C (LEAVE A REPLY)

NEW QUESTION: 16

A customer is using a service provider to provide a WAN backbone for a 30-site network. In establishing the network, the customer must work within these constraints:

- The customer has a self-managed MPLS backbone.
- The VPLS WAN backbone of the service provider does not support PIM snooping.
- Multicast VPN must be used for multicast support inside some VRFs.

What can the customer do so that multicast traffic is NOT flooded to all sites?

- A. Configure static GRE tunnels and run the MPLS and multicast VPN inside these GRE tunnels.
- B. Use Label Switched Multicast for the multicast transport.
- C. Use PIM-SSM as the multicast routing protocol with IETF Rosen Draft multicast VPN.
- D. Configure a static mapping between multicast addresses and MAC addresses.
- E. Use GET VPN to encrypt the multicast packets inside the WAN.

Answer: A (LEAVE A REPLY)

Explanation/Reference:

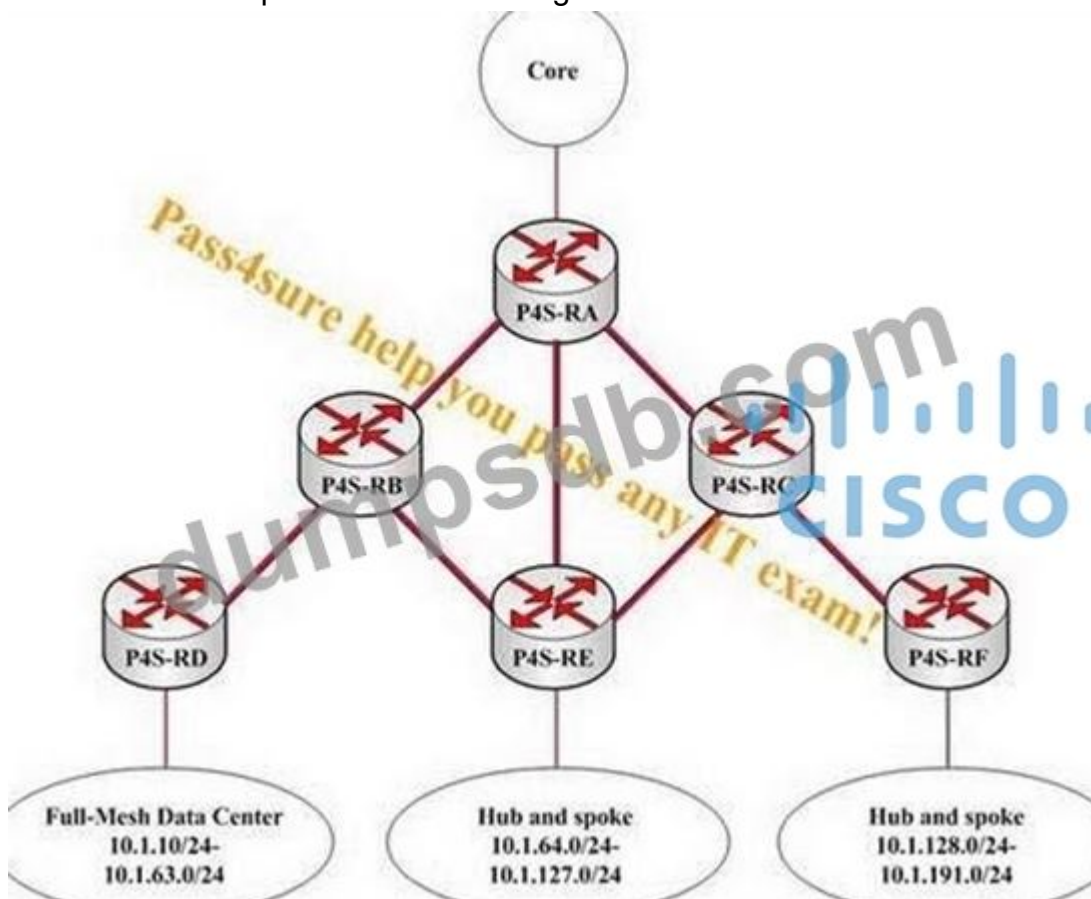
Explanation:

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NEW QUESTION: 17

There are two hub-and-spoke networks in the following exhibit. Each has about 60 branches spread over a wide area. Connect routers P4S-RE and P4S-RF to two different frame providers. Problems with one provider have impacted branches connected to the other provider and reaching the data center.

Which is the best place to build flooding domain boundaries to isolate these WAN issues?



- A. at routers P4S-RB and P4S-RC, because this will provide a good balance between separating the complex topologies behind routers P4S-RD, P4S-RE, and P4S-RF from the core and good route aggregation
- B. at routers P4S-RB and P4S-RF, because this will provide good route aggregation and prevent routing along suboptimal paths in the case of link failure
- C. at router P4S-RA, because this will provide optimal route aggregation and prevent suboptimal routing in the case of link failure

D. at routers P4S-RD, P4S-RE, and P4S-RF, because this will provide good route aggregation and also separate complex topologies within the network from one another

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 18

You have been hired to redesign a network due to issues with congestion. How will a router function if the QoS mechanism of congestion avoidance is integrated into the existing network design?

34

- A.** the router handles the overflow of traffic by using FIFO
- B.** the router handles the possible buildup of congestion by using WRED
- C.** the router forces inbound and outbound traffic to stay within a defined profile by using rate limiting
- D.** the router separates packets based on certain characteristics by using NBAR
- E.** the router marks packets based on certain characteristics by using PBR

Answer: **B** ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 19

A network administrator is having problems with redistribution routing loops between two EIGRP processes. You've looked at the configurations and determined there is no filtering configured on the routes being redistributed. To avoid having a single point of failure, there are three routers configured to redistribute between the two routing protocols. Which solution would you recommend to minimize management complexity?

- A.** use tags to control redistribution between the two processes
- B.** reduce the number of routers redistributing between the two routing processes
- C.** build and apply a route filter based on the networks being redistributed between the two processes
- D.** replace one of the EIGRP processes with an alternate IGP

Answer: **A** ([LEAVE A REPLY](#))

NEW QUESTION: 20

You are the SAN designer for the ABC Company. Due to budget constraints, there is increased pressure by management to further optimize server utilization by implementing virtualization technologies on all servers and increase virtual machines density. Faced with some SAN challenges, the server team requests your help in the design and implementation of the SAN in the new virtualized environment.

In which two ways can NPIV be used in your proposed design? (Choose two.)

- A. NPIV is used to assign multiple FCIDs to a single N Port.
- B. NPIV can be used to allow multiple applications on the same port to use different IDs in the same VSAN.
- C. You recommend NPIV so that hosts can be members of different zones.
- D. NPIV is used to define and bind multiple virtual WWNs (VIs) to a single physical pWWN.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 21

A customer with a dedicated Frame Relay network plans to move its circuits onto a service provider converged MPLS network. Instead of moving to Ethernet access links right away, the customer wants to tunnel the Frame Relay information across the converged network. In which way is QoS information transmitted across an AToM pseudowire when tunneling Frame Relay traffic?

- A. QoS information is translated into ToS bits in the Ethernet header.
- B. QoS information cannot be transported through a pseudowire and is dropped.
- C. QoS information is preserved in the Frame Relay header and encapsulated into the pseudowire frame.
- D. QoS information is carried in a control word that is attached to the MPLS frame.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 22

The CTO of XYZ is having some high-level discussions about IPv6 implementation and is considering whether XYZ should consider the MPLS IPv6 Provider Edge approach. Which two drawbacks of the MPLS IPv6 Provider Edge approach are true? (Choose two)

- A. Single IGP topology must be deployed, which can cause scalability issues in the future
- B. XYZ must migrate the IGP used in the MPLS core network to the multitopology IS-IS architecture to support MPLS IPv6 Provider Edge technology
- C. Single RIB and FIB is required for each connected customer, so scalability issues can arise
- D. MPLS P routers cannot send ICMPv6 messages because they are not enable for IPv6
- E. The label allocation mode is per-prefix. so the label table grows as the BGP table increases

Answer: C,D ([LEAVE A REPLY](#))

NEW QUESTION: 23

Which two design solutions provide IPv6 interdomain multicast? (Choose two)

- A. MSDP
- B. PIM SSM
- C. PIM-DM
- D. Auto-RP
- E. Embedded RP

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 24

For which two reasons do you choose L2TPv3 over other technologies for a VPN solution?

(Choose two.)

- A. The VPN solution should support Frame Relay to Ethernet pseudowire connections
- B. The VPN solution does not contain MPLS on the network core
- C. The VPN solution should tunnel Layer 2 frames and Layer 3 packets
- D. The VPN solution requires multipoint Ethernet LAN service
- E. The VPN solution should be industry-standard

Answer: B,E ([LEAVE A REPLY](#))

Section: Evolving Technologies

NEW QUESTION: 25

On a large enterprise security solution, which two options are IDS or IPS modes of operation?

(Choose two.)

- A. routed mode
- B. inline mode
- C. traffic discovery mode
- D. promiscuous mode
- E. transparent mode

Answer: B,D ([LEAVE A REPLY](#))

NEW QUESTION: 26

ACME Corporation is deploying a new HR application that requires the network infrastructure to monitor and react to certain conditions in the network. Which feature should be used to meet this design requirement?

- A. SOAP
- B. route maps
- C. Cisco IOS Embedded Event Manager
- D. IP SLA
- E. exit status
- F. reflexive ACLs

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 27

A senior network designer suggests that you should improve network convergence times by reducing BGP timers between your CE router and the PE router of the service provider. Which two factors should you consider to adjust the timer values? (Choose two.)

- A. number of VRFs on the PE router
- B. service provider scheduling of changes to the PE
- C. number of routes on the CE router
- D. manual updates to the peer groups

E. service provider agreement to support tuned timers

Answer: C,E (LEAVE A REPLY)

NEW QUESTION: 28

As part of a new network design, you are helping the Network Management Team to develop a proactive report to identify places in the network where problems may happen.

The network management tool can poll the network devices only via SNMP GET operations.

Which two threshold-crossing metrics should you include in this report?

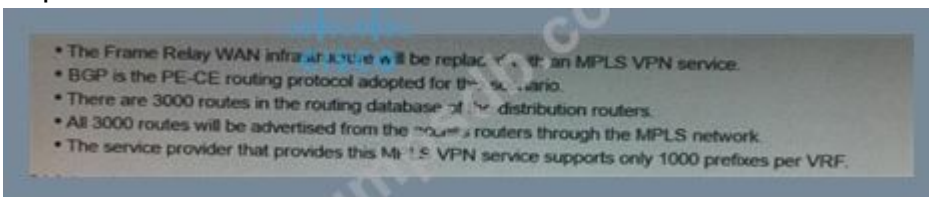
(Choose two.)

- A. packet loss
- B. CPU utilization
- C. link bandwidth utilization
- D. heat dissipation
- E. energy consumption
- F. IP reachability

Answer: B,C (LEAVE A REPLY)

NEW QUESTION: 29

A large enterprise company is redesigning their WAN infrastructure and has these design requirements



Which two design solutions ensure that the enterprise access routers reach all devices in this enterprise network? (Choose two)

- A. Configure the distribution routers to send a default route to the MPLS network.
- B. Use prefix lists on the distribution routers to control which routes are sent to the MPLS network.
- C. Configure null routes and aggregate routes for the prefixes in your network on the distribution routers.
- D. Configure the access routers to send a default route to the MPLS network.
- E. Summarize the routes on the MPLS WAN interfaces of the distribution routers.

Answer: A,E (LEAVE A REPLY)

NEW QUESTION: 30

Which two mechanisms ensure that a network design provides fast path failure detection?

(Choose two.)

- A. IP Cisco Express Forwarding
- B. BFD
- C. UDLD

D. fast hello packets

Answer: B,D ([LEAVE A REPLY](#))

NEW QUESTION: 31

A company wants to use SSM as the multicast routing protocol inside its network. Some of its multicast applications do not support IGMPv3. In which two ways can the mapping be done when these applications send IGMPv2 join messages? (Choose two.)

- A. The Layer 2 switches can send a request to a DNS server.
- B. The Layer 3 multicast routers can send a request to a DNS server.
- C. The mapping can be done statically at the Layer 2 switches.
- D. The mapping can be done statically at the Layer 3 multicast routers.
- E. The Layer 2 switches can transform the IGMPv2 join to an IGMPv3lite join.
- F. The Layer 3 multicast routers can transform the IGMPv2 join to an IGMPv3lite join.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

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NEW QUESTION: 32

The Sender Policy Framework (SPF) is an open standard specifying a technical method to prevent sender address forgery. When configuring the SPF exponential backoff timer, which one of the following items is among the primary issues to consider?

- A. number of external routes
- B. area size
- C. average SPF run time
- D. interface stability

Answer: C ([LEAVE A REPLY](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 33

Which three things can be restricted by the Class of Service in a traditional PBX? (Choose three.)

- A. dial plans

- B. dialed numbers
- C. voice mail prompts
- D. phone features

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 34

Which reason is correct about carrying routes that originate outside your network in an EGP, such as BGP, rather than in your IGP, such as OSPF, EIGRP, or IS-IS?

- A. to provide faster convergence to destinations outside your network
- B. to prevent failures outside your network from impacting your internal network operation
- C. to provide a growth path for the core of your network
- D. to provide better control over the distribution of the default route inside your network

Answer: B ([LEAVE A REPLY](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 35

You are asked to design an RSVP-TEL LSP protection solution for a large service provider network. Which traffic protection mechanism is highly scalable and ensure that multiple LPS always terminate at the same merge point?

- A. 1:N protection.
- B. Detour LSPs.
- C. Shared explicit protection.
- D. 1:1 protection.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 36

A large enterprise network runs IS-IS. There is a concern that the IS-IS default metrics are not flexible enough. Which IS-IS feature enables increased granularity for traffic engineering on the network?

- A. IS-IS Wide Metrics
- B. IS-IS DIS
- C. IS-IS Multitopology
- D. IS-IS route leaking

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 37

Refer to the exhibit. This enterprise customer wants to stream one-way video from their head office to eight branch offices using multicast. Their current service provider provides a Layer 3

VPN solution and manages the CE routers, but they do not currently support multicast. Which solution quickly allows this multicast traffic to go through while allowing for future scalability?

- A. Enable a GRE tunnel between nodes CE1 and CE2
- B. Implement hub and spoke MPLS VPN over DMVPN (also known as 2547oDMVPN) between CE1 and CE2
- C. The service provider must provide a Draft Rosen solution to enable a GRE tunnel between nodes PE1 and PE2
- D. Enable a GRE tunnel between nodes C2 and C4
- E. Enable a GRE tunnel between nodes C1 and C4

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 38

You are deploying a nationwide intranet solution for a company with 4 data centers and 400 remote branches connected via a provider-based solution. As part of the network design, you must ensure efficient content distribution of training material to remote sites. Which two VPN technologies leverage replication in the network core and provide for efficient bandwidth optimization? (Choose two.)

- A. EoMPLS
- B. MPLS Layer 3 VPN
- C. GET VPN
- D. GRE
- E. VPLS

Answer: B,C ([LEAVE A REPLY](#))

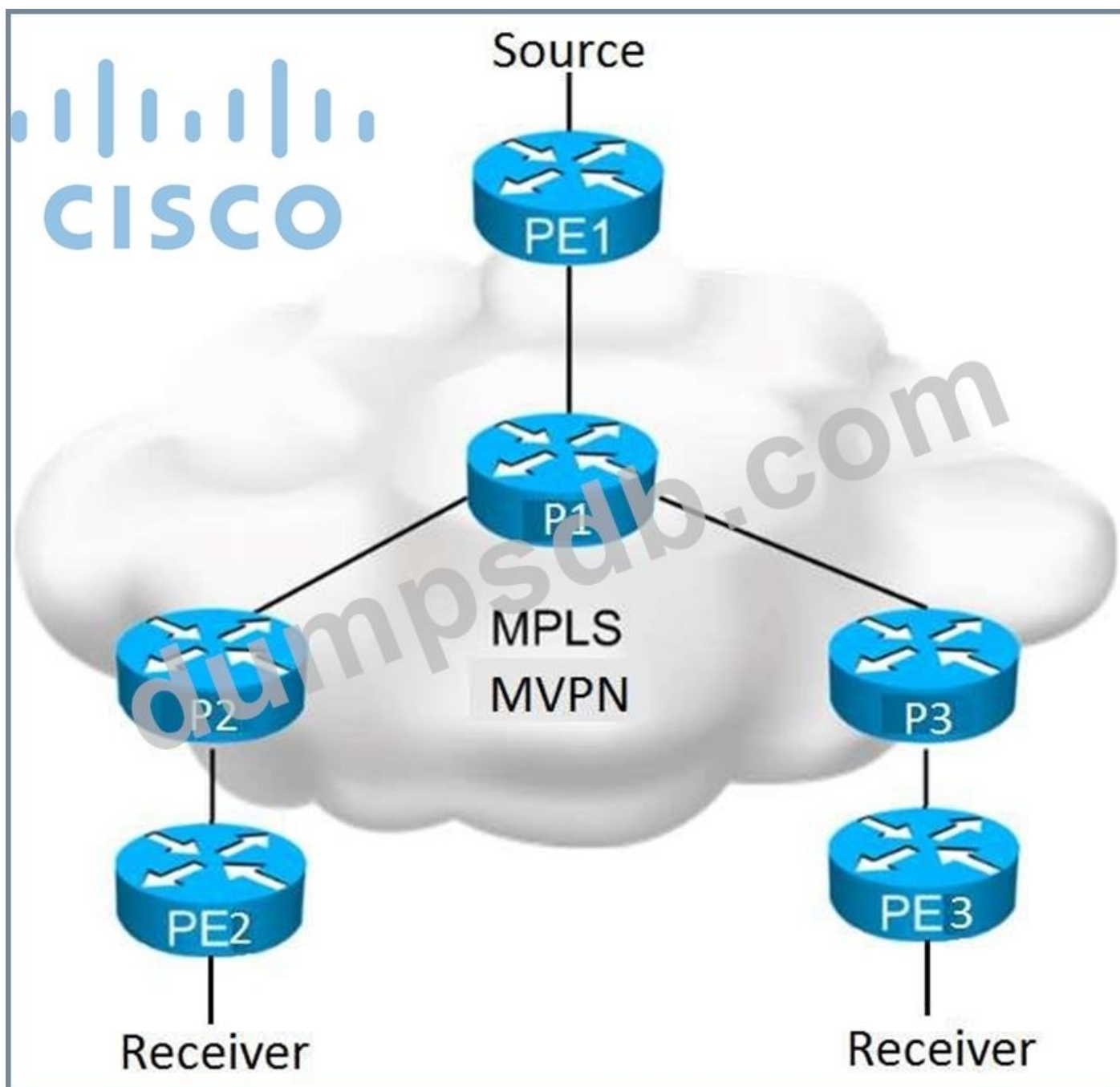
NEW QUESTION: 39

Your network operations team is deploying Access Control Lists (ACLs) across your Internet gateways. They wish to place an ACL inbound on the Internet gateway interface facing the core network (the "trusted" interface). Which IP address would the ACL need for traffic sourced from the inside interface, to match the source address of the traffic?

- A. outside local
- B. outside global
- C. inside local
- D. inside global

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 40



Refer to the exhibit. You are a network designer who is given these design requirements:

- * Multicast services must be provided for Layer 3 VPN customers
- * The same forwarding technology must be used as Layer 3 VPN unicast packets
- * Replication of multicast traffic is not allowed on the ingress PE

Which multicast VPN technology conforms to the design requirements?

- A. multipoint-to-point LDP
- B. MSDP
- C. MLDP VPN
- D. Rosen Draft using LDP

Answer: C (LEAVE A REPLY)

Section: Evolving Technologies

Explanation/Reference:

NEW QUESTION: 41

What is the most efficient method of implementing IP multicast in a network without using RPs?

- A. Implement source-specific multicast and utilize the functionality of IGMPv3 to replace the RPs.
- B. Implement PIM dense mode multicast to eliminate the need for RPs.
- C. RPs can't be eliminated; they're mandatory in multicast networks.
- D. Implement source-specific multicast and utilize the functionality of IGMPv2 to replace the RPs.

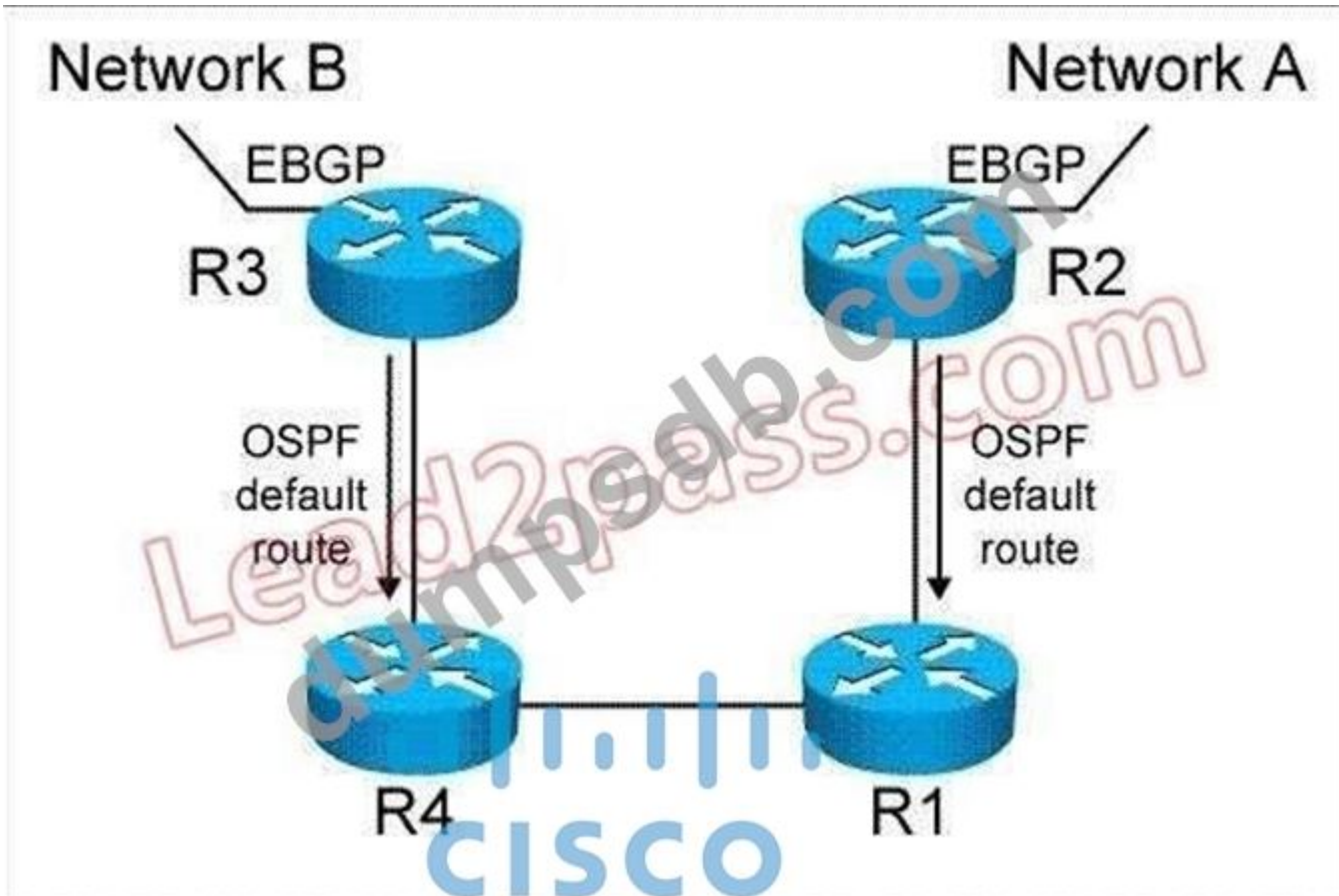
Answer: A (LEAVE A REPLY)

NEW QUESTION: 42

Refer to the exhibit. R2 and R3 are running EBGP and are learning Network A and Network B. R2 and R3 are also running IBGP to exchange Network A and Network B OSPF is IGP. R2 and R3 are advertising default routes. R1 and R4 can send and receive traffic from Network A and Network B respectively.

However, Network A cannot send traffic to Network B.

How can you solve this problem?



- A. create a tunnel between R2 and R3
- B. create a tunnel between R2 and R4
- C. create static default routes pointing from R1 and R4 to R2 and R3, respectively
- D. convert R3 and R2 to ABRs so that R1 and R4 can choose the closest ABR to exit the network

Answer: (SHOW ANSWER)

Explanation/Reference:

NEW QUESTION: 43

When you design a network that uses IPsec, where can you reduce MTU to avoid network fragmentation?

- A. on the side closest to the server
- B. on the side closest to the client
- C. in the WAN
- D. on both ends of the TCP connection

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 44

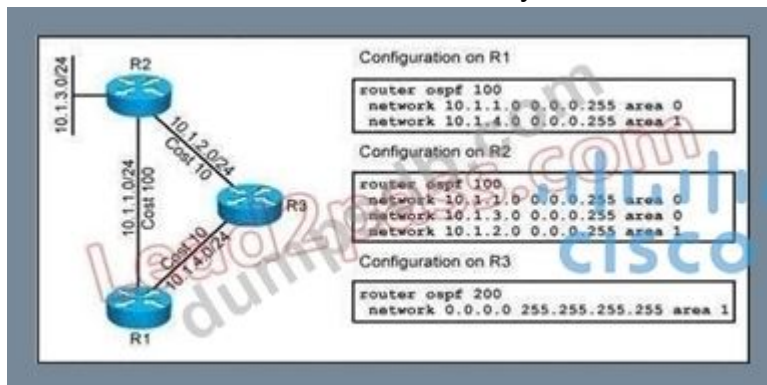
In a network design using carrier Ethernet, which three mechanisms can be used to improve Layer 2 down detection and thereby reduce routing convergence time? (Choose three.)

- A. link-state tracking
- B. BFD
- C. Ethernet port debounce timers
- D. fast IGP hello
- E. object tracking

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 45

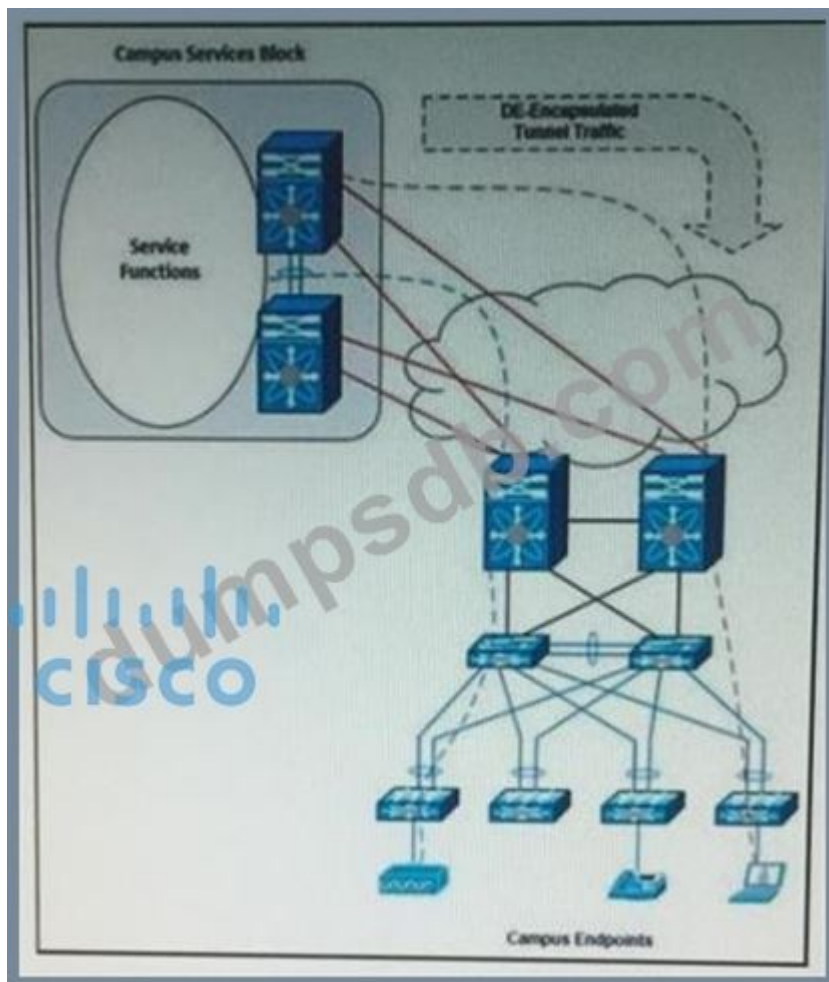
Refer to the exhibit. Traffic in this network that is destined for 10.1.3.1 arrives at R1. Which path will the traffic take from here and why?



- A. through R3, because it is the lowest cost path
- B. through R2, because it is an intra-area path
- C. through R2, because R3 is in a different autonomous system
- D. through R3, because R1 will only have a summary (type 3) LSA from R2

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 46



Refer to the exhibit. You are planning a migration to a dual-stack IPv4/IPv6 campus environment while providing a flexible and scalable design with fault isolation. The design must allow IPv6 devices to tunnel over portions of the campus that are not yet natively IPv6-enabled, including wireless and voice endpoints.

Your plan requires an interim approach that allows for a faster information of new services without requiring a network wide hot cutover. Which two services block functions meet these requirements? (Choose two)

- A. IPv6 ISATAP tunnel termination point
- B. policy gateways
- C. BGP route reflectors
- D. GET VPN key server
- E. GRE tunnel to the local internet edge

Answer: (SHOW ANSWER)

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NEW QUESTION: 47

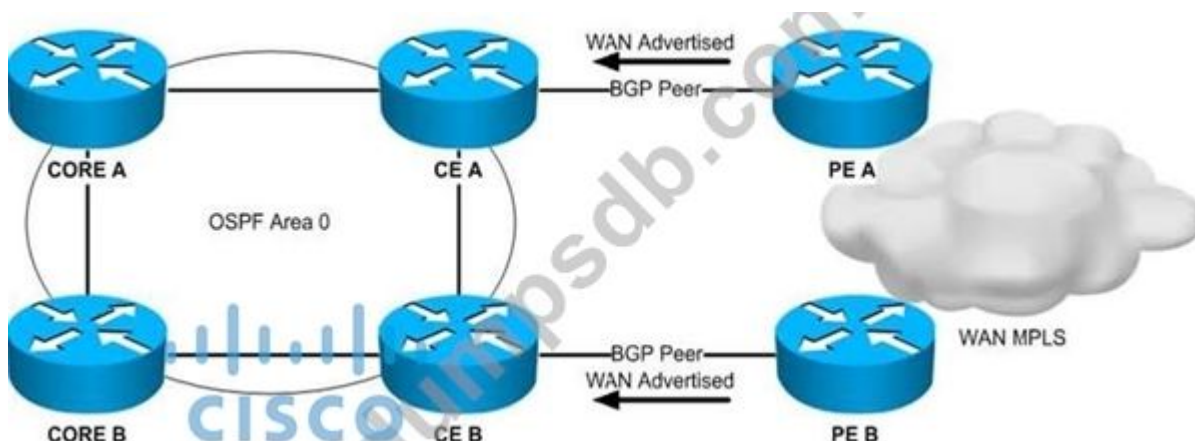
Company A has grown nationwide in the U.S., and each new remote branch has a Metro Ethernet circuit provisioned back to the data center at the headquarters on the West Coast. The operations team says that it cannot manage hundreds of circuits as the company continues to grow. You review the topology and notice that many of the branches are close to each other in geographical zones. How can you redesign this network to improve manageability and increase scalability?

- A. Add an aggregation layer router in each geographical zone.
- B. Use Optimized Edge Routing at the data center.
- C. Add a default route in each branch toward the data center on the West Coast.
- D. Add a redundant data center on the East Coast to serve some of the traffic there.
- E. Build an overlay MPLS network with Layer 3 VPN.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 48

Refer to the exhibit.



The design is being proposed for use within the network. The CE devices are OSPF graceful restart-capable, and the core devices are OSPF graceful restart-aware. The WAN advertisements received from BGP are redistributed into OSPF. A forwarding supervisor failure event takes place on CE A.

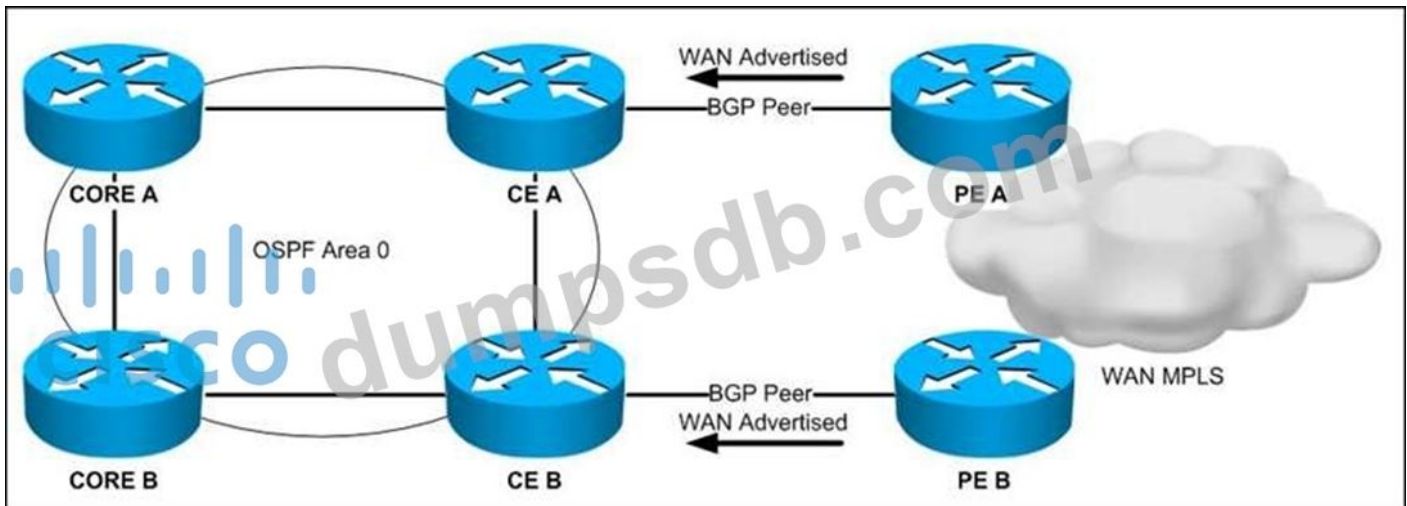
During this event, how will the routes learned from the WAN be seen on the core devices?

- A. via CE A and CE B
- B. no WAN routes will be accessible
- C. via CE B
- D. via CE A

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 49

Refer to the exhibit.



The design is being proposed for use within the network. The CE devices are OSPF graceful restart- capable, and the core devices are OSPF graceful restart-aware. The WAN advertisements received from BGP are redistributed into OSPF. A forwarding supervisor failure event takes place on CE A.

During this event, how will the routes learned from the WAN be seen on the core devices?

- A. via CE A and CE B
- B. via CE A
- C. via CE B
- D. no WAN routes will be accessible

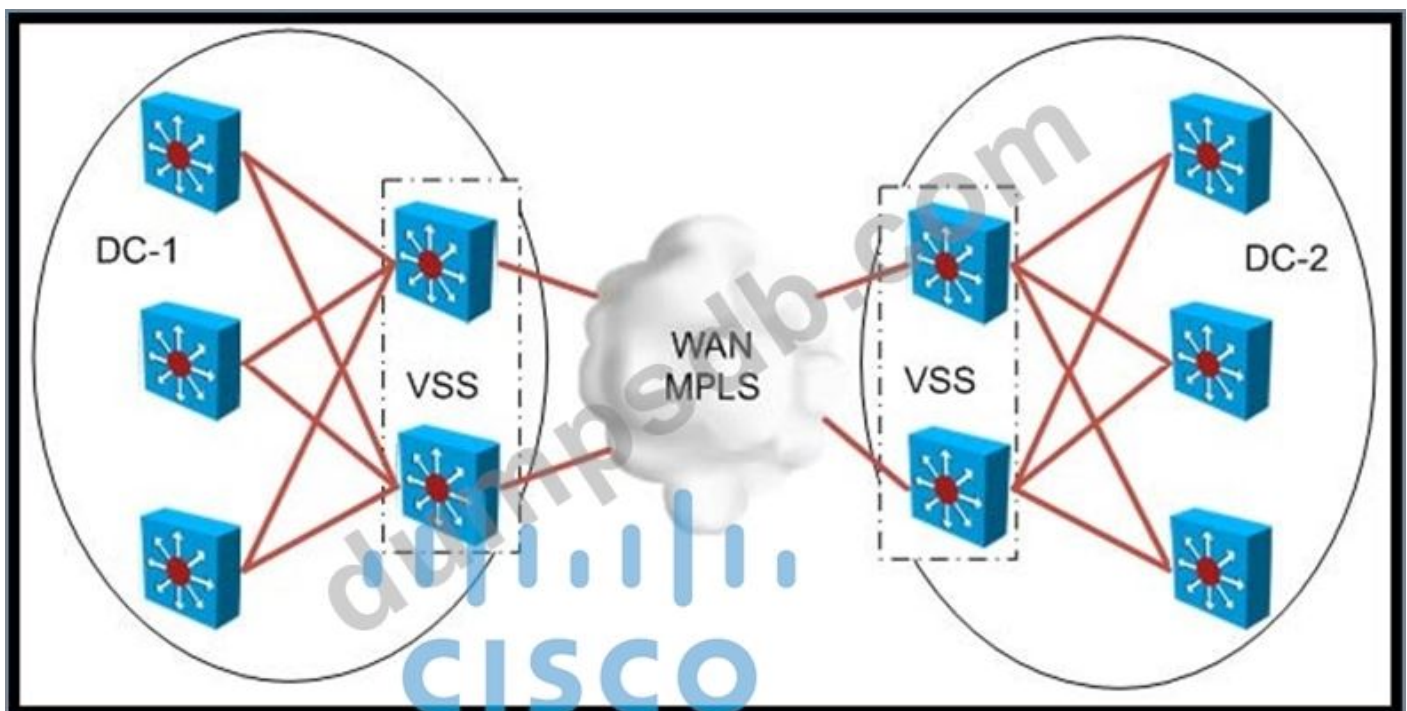
Answer: C (LEAVE A REPLY)

Explanation/Reference:

Explanation:

NEW QUESTION: 50

Refer to the exhibit.



When designing an MPLS-based LAN extension between DC-1 and DC-2, what are three advantages of deploying VSS? (Choose three.)

- A. native VSS and MEC failover without using scripts
- B. failover time depends on Cisco IOS EEM and STP convergence
- C. Layers 2, 3, and 4 flow-based load balancing
- D. sub-second failover
- E. limited VLAN-based VPLS traffic hashing
- F. required to configure VPLS

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 51

Which actions are performed at the distribution layer of the three-layer hierarchical network design model?

(Choose two)

- A. Fast transport
- B. QoS classification and marking boundary
- C. Redundancy and load balancing
- D. Fault isolation
- E. Reliability

Answer: C,D ([LEAVE A REPLY](#))

NEW QUESTION: 52

You work for a financial institution that is planning to deploy a new multicast application in your network to do real-time trading. This application will be run simultaneously by thousands of traders located throughout your network, each a source of several IP multicast streams, to carry the "sell" and "buy" trading bids. All routers in your network have full hardware support for all PIM multicast modes.

Which mode should you use in order to minimize the impact of the new application on the routers in your network?

- A. PIM Dense Mode
- B. PIM Bidirectional
- C. PIM Any-Source Multicast
- D. PIM Source Specific Multicast

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 53

When designing a network that uses IPsec, which technique is suggested to avoid network fragmentation?

- A. Reduce the MTU on the side closest to the client
- B. Reduce the MTU on both ends of the TCP connection
- C. Reduce the MTU only in the WAN

D. Reduce the MTU on the side closest to the server

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 54

What are two benefits of using BFD for failure detection in the design of a network? (Choose two.)

- A. BFD can be used for all types of network interfaces.
- B. BFD can provide failure detection in less than one second.
- C. BFD eliminates router protocol hello notification.
- D. BFD can be used as a generic and consistent failure detection mechanism for EIGRP, IS-IS, and OSPF.
- E. BFD is independent of the network protocol.

Answer: B,D ([LEAVE A REPLY](#))

NEW QUESTION: 55

For a storage area network design, which technology allows a switch to support multiple Fibre Channel IDs per fabric port?

- A. N-Port Identifier Virtualization
- B. Inter-Virtual Storage Area Network Routing
- C. Zoning
- D. Fabric Port Trunking
- E. Node Port Virtualization
- F. Expansion Port Trunking

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 56



Refer to the exhibit. A new high availability DB server cluster is installed in the network . these two servers require high bandwidth and low latency Layer 2 connectivity for database replication. Which solution supports these requirements?

- A. Add secondary links to REP segments 1 and 2
- B. Add two new links between SW1 and SW2 configured as LACP trunk with STP
- C. Add two new links between SW1 and SW2 configured as REP segments 1 and 2 respectively
- D. Add two new links between SW1 and SW2 configured as REP segment 3

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 57

A service provider wants to use a controller to automate the provisioning of service function chaining. Which two overlay technologies can be used with EVPN MP-BGP to create the service chains in the data center? (Choose 2)

- A. Provider Backbone Bridging EVPN
- B. MPLSoGRE
- C. VXLAN
- D. 802.1Q
- E. MPLS L2VPN

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 58

What are two functions of an NSSA in an OSPF network design? (Choose two.)

- A. It overcomes issues with suboptimal routing when there are multiple exit points from the area.
- B. It allows ASBRs to inject external routing information into the area.
- C. An ASBR advertises Type 7 LSAs into the area.
- D. An ABR advertises Type 7 LSAs into the area.
- E. It uses opaque LSAs.

Answer: B,C ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 59

You are designing an 802.11 wireless network to include a controller as a central configuration point and access points across several remote sites. Which two aspects will manage the flow of the traffic to meet these design considerations? (Choose two.)

- A. WLAN local switching with VLAN mapping requires that VLAN ID that is mapped on the AP to match a dynamic interface that is configured on the wireless LAN controller.
- B. Layer 3 roaming is not supported for locally switched WLANs.
- C. The 802.1x authentication for a client associated to an AP on a locally switched WLAN is always handled at the wireless LAN controller side.
- D. The access point can receive multicast traffic in the form of multicast packets from the WLC.
- E. WLAN access lists can be applied only to centrally switched WLANs.

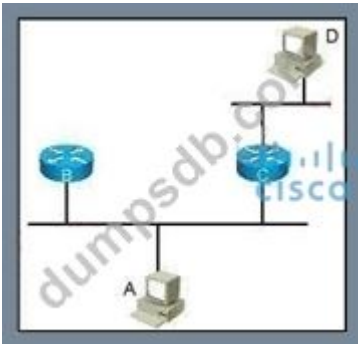
Answer: B,E ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 60

Refer to the exhibit.



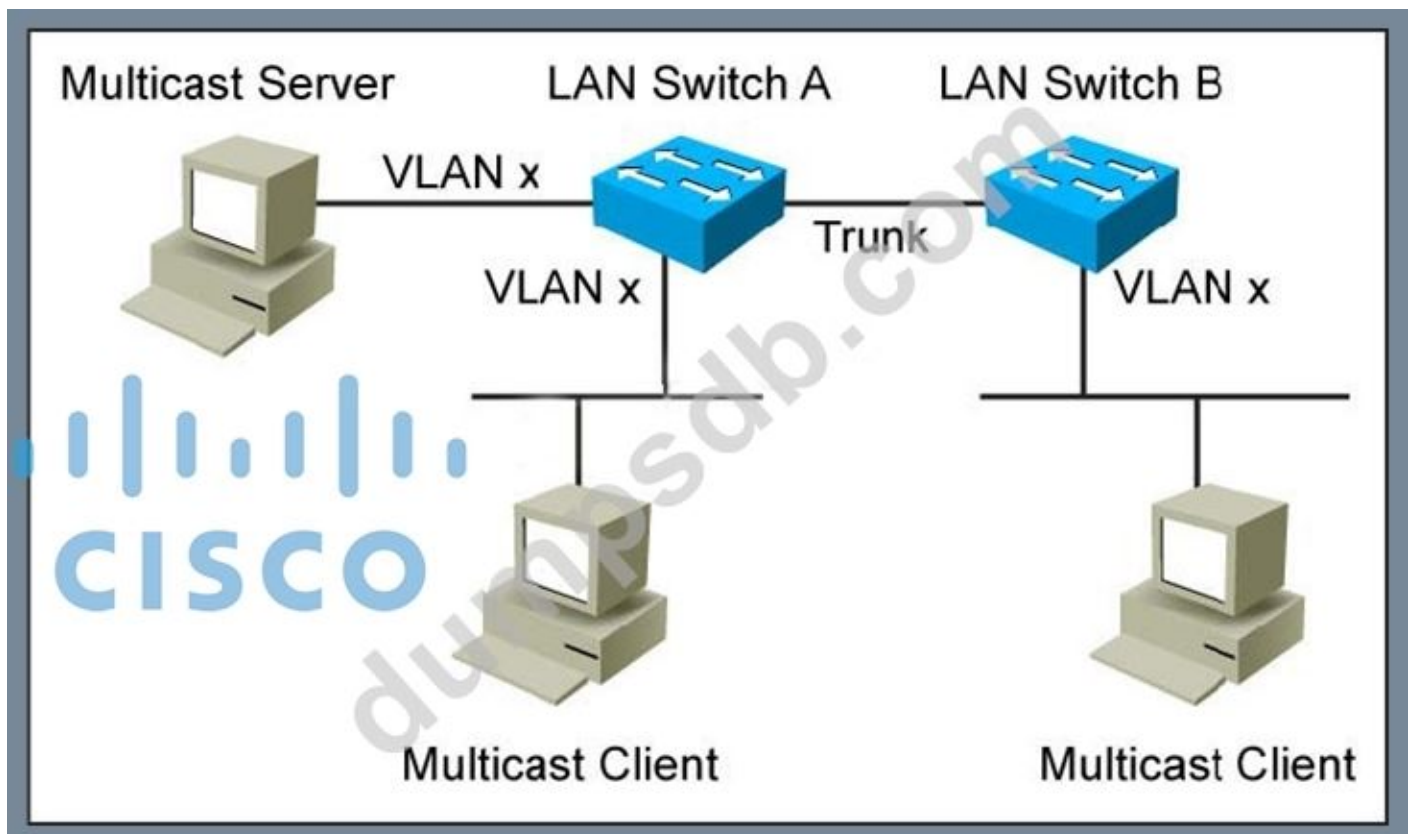
All of these network devices are running IPv6. When host A is attached to this link, how will it discover the presence of routers B and C?

- A. Host A will discover routers B and C through the neighbor discovery process.
- B. Routers B and C send out periodic gratuitous ARPv6 messages to alert newly attached hosts to their presence.
- C. Routers B and C will detect the addition of the new host the first time it transmits any packets, and will send an ICMP router discovery reply to host A.
- D. Routers B and C will respond to an ICMP get route request sent by host

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 61

Refer to the exhibit.



Assume that no multicast optimization is done on LAN switches A and B.

Which two features can be used to optimize multicast traffic forwarding in this situation? (Choose two.)

- A. Disable the IGMP query election process.
- B. Enable IGMP snooping querier on both switches.
- C. Enable PIM snooping on both switches.
- D. Configure a static MAC entry for the multicast server.
- E. Disable IGMP snooping on both switches.

Answer: B,E ([LEAVE A REPLY](#))

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NEW QUESTION: 62

Which multicast technology provides a large, many-to-many connectivity for a new application while minimizing load on the existing network infrastructure?

- A. PIM Sparse Mode
- B. Source Specific Multicast
- C. Any-source Multicast
- D. Bidirectional PIM

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 63

Which two options are IoT use cases that require the low-latency and high reliability that 5G networks provide? (Choose two)

- A. Sports and Fitness
- B. Industrial Automation
- C. Smart Home
- D. Automotive
- E. Health and wellness
- F. Smart Cities

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 64

You have created a network design that has two point-to-point Metro Ethernet circuits extending a single production VLAN between two data centers. Under normal circumstances, one circuit will carry traffic and spanning tree will block the other. If the company wants you to make use of both circuits to carry production traffic, which two technologies and features will you investigate to integrate into your network design? (Choose two.)

- A. EtherChannel
- B. MST
- C. Multichassis EtherChannel
- D. PVST+

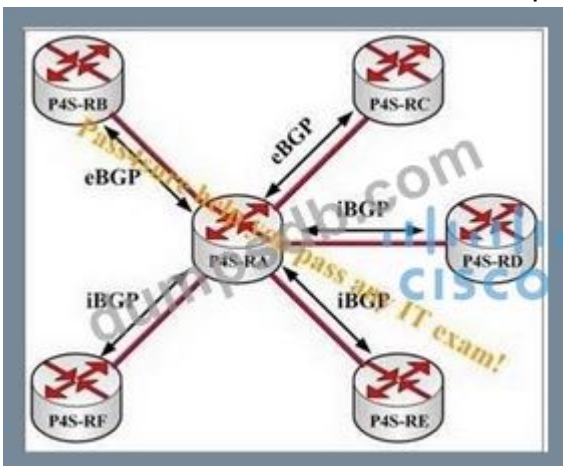
Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

NEW QUESTION: 65

In the network presented below, configure routers P4S-RE and P4S-RF as route reflector clients of router P4S-RA. When router P4S-RE transmits a route to router P4S-RA, which router or routers will router P4S- RA send an update to?



- A. only iBGP routers, except router P4S-RE
- B. only route reflector clients, except router P4S-RE
- C. all routers, except router P4S-RE
- D. only EBGP routers

Answer: C (LEAVE A REPLY)

Section: (none)

Explanation/Reference:

NEW QUESTION: 66

DRAG DROP

Drag the IT standards on the left to their network design application on the right. Not all applications will be used.

FCAPS	Change management
ITL®	Governance framework
CMP	OSI-specified network management protocol
TMN	Telecommunications systems management framework
	Network management framework
	Enterprise architecture framework

Answer:

Drag the IT standards on the left to their network design application on the right. Not all applications will be used.

FCAPS	ITL®
ITL®	Governance framework
CMP	CMP
TMN	TMN
	FCAPS
	Enterprise architecture framework

NEW QUESTION: 67

Your organization is working on a design solution for a new internet-based remote access virtual private network that has 1000 remote sites. A network administrator recommends GETVEP as the model because the network of today uses DMVPN, which results in a lot of background NHRP control traffic. What is a potential problem with using GETVPN for this design solution?

- A. GETVPN is not scalable to a large number of remote sites
- B. GETVPN key servers would be on public, hacker-reachable space and need higher security
- C. GETVPN requires an overlay routing control plane
- D. GETVPN would require a high level of background traffic to maintain its IPsec SAs

Answer: ([SHOW ANSWER](#))

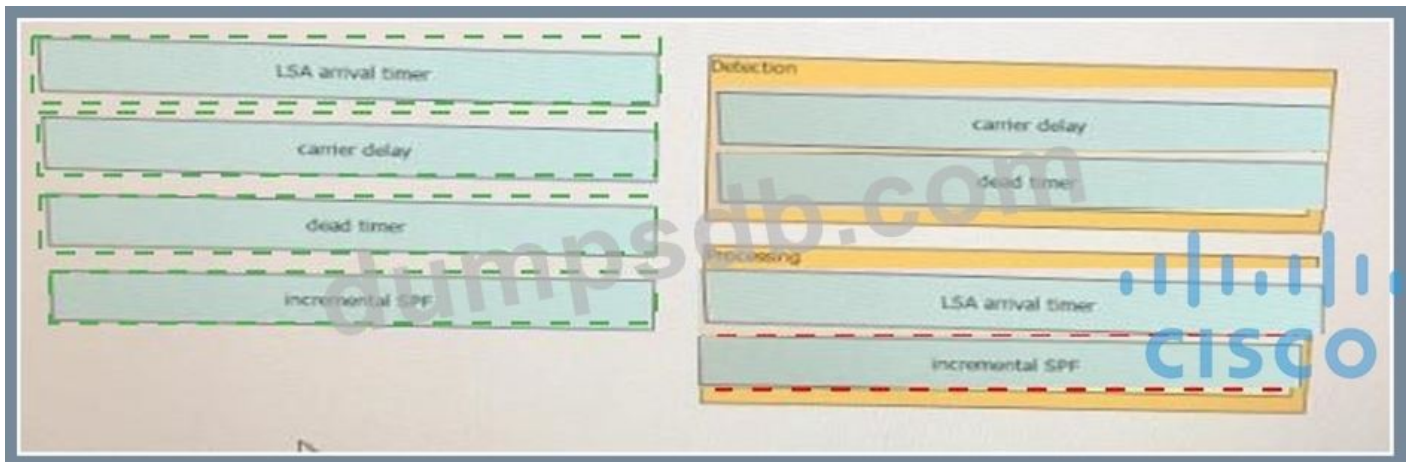
NEW QUESTION: 68

DRAG DROP

Classify the OSPF Fast Network Convergence technique by dragging the techniques on the left and dropping them into the corresponding categories on the right.



Answer:



Explanation:

Detection: carrier delay, dead timer

Processing: LSA arrival timer, incremental SPF

NEW QUESTION: 69

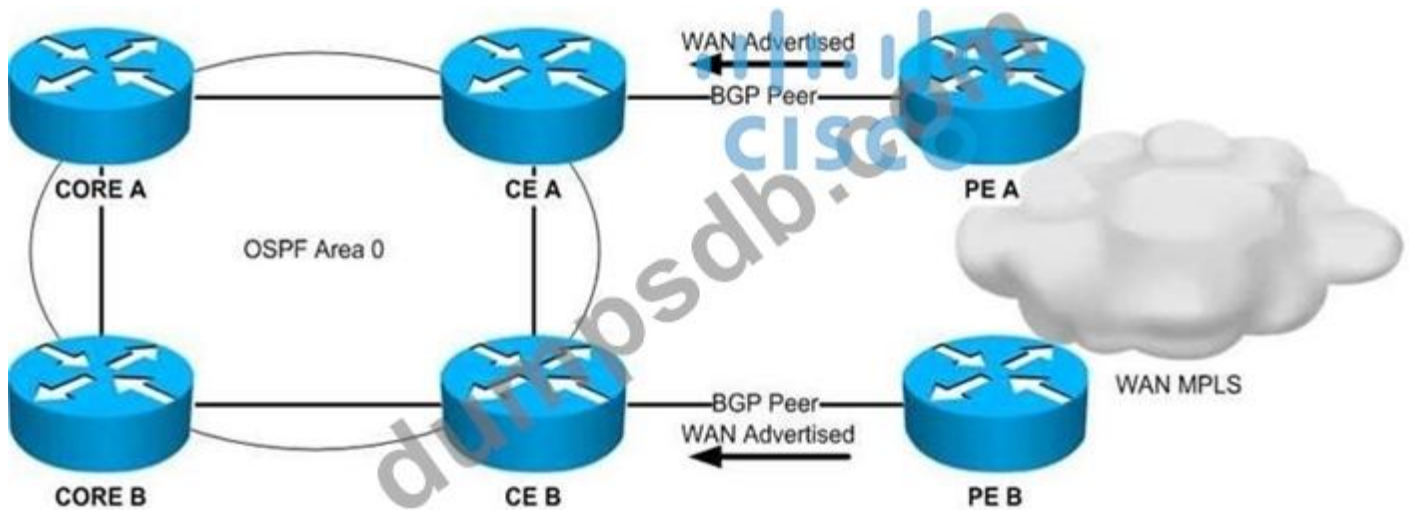
A company wants a design that would support OSPF through a service provider ATM network. Which two OSPF network types should the designer use to establish OSPF neighborship between OSPF routers through the ATM network? (Choose two.)

- A. Explicit neighbor statements are required when a nonbroadcast network is configured.
- B. A broadcast network will always work through ATM networks.
- C. A broadcast network will work when the broadcast support is explicitly configured at the ATM network.
- D. A nonbroadcast network does not require DR selection.
- E. Explicit neighbor statements are required when a point-to-multipoint network is configured.

Answer: A,C (LEAVE A REPLY)

NEW QUESTION: 70

Refer to the exhibit.



The design is being proposed for use within the network. The CE devices are OSPF graceful restart-capable, and the core devices are OSPF graceful restart-aware. The WAN advertisements received from BGP are redistributed into OSPF. A forwarding supervisor failure event takes place on CE A. During this event, how will the routes learned from the WAN be seen on the core devices?

- A. via CE A and CE B
- B. via CE A
- C. via CE B
- D. no WAN routes will be accessible

Answer: C (LEAVE A REPLY)

Section: Layer 3 ControlPlane

Explanation/Reference:

NEW QUESTION: 71

Which is a requirement for performing attack detection by use of anomaly detection technologies?

- A. syslog data
- B. packet captures
- C. baseline data
- D. exploit signatures

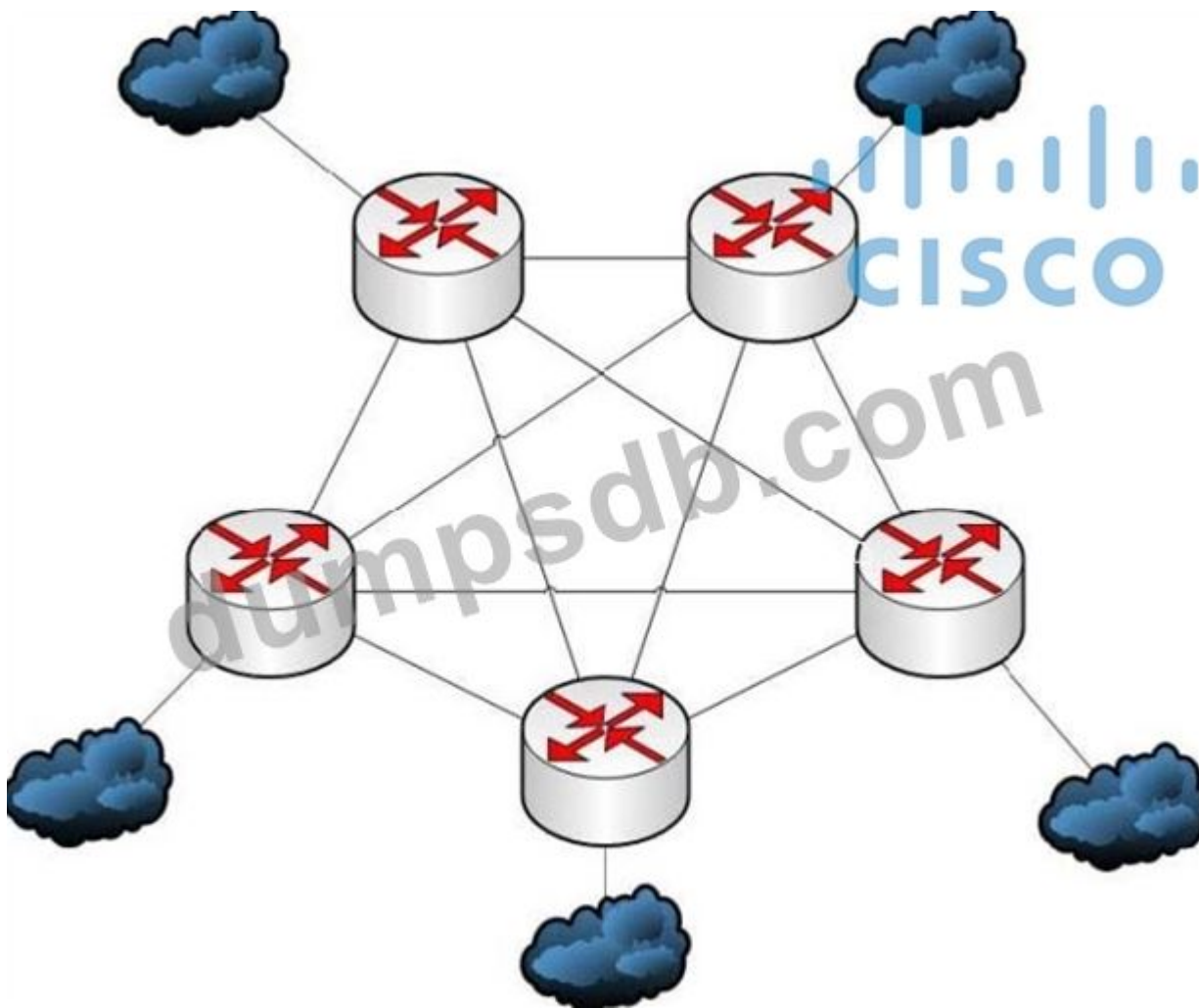
Answer: (SHOW ANSWER)

Section: (none)

Explanation/Reference:

NEW QUESTION: 72

Refer to the exhibit.



A service provider using IS-IS has designed this network with all core links at the Layer 2 control plane. How will they adjust the design to reduce the flooding of update packets?

- A. Configure SPF timers to be more aggressive so that updates are more quickly cleared from the queue.
- B. Use IS-IS mesh groups.
- C. Change the network type of the links from broadcast to point-to-point.
- D. Change the area type of the links to be level-1-2 to allow level-1 updates.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 73

You are developing the routing design for two merging companies that have overlapping IP address space. What must you consider when developing the routing and NAT design?

- A. Global to local NAT translation is done before routing.
- B. Local to global NAT translation is done after routing.
- C. Local to global NAT translation is done before policy-based routing.
- D. Global to local NAT translation is done after policy-based routing.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 74

You work for a large company that has just acquired another smaller company. You have been asked to lead a group of SAN experts from both companies to design the integration plan that will be used to interconnect the SANs and migrate the data from the newly acquired company to the main storage arrays. The first thing that the team discovers is that the two SANs have the same domain IDs.

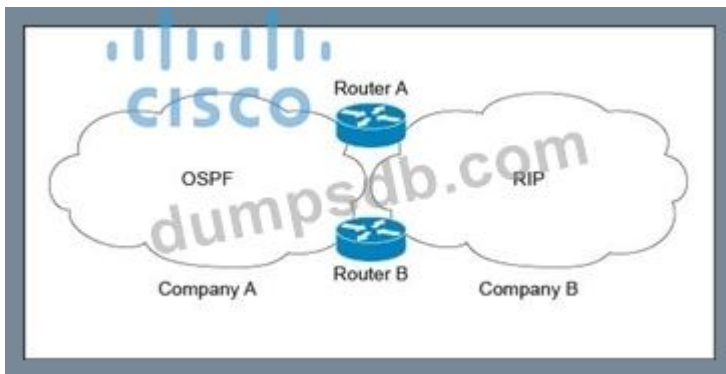
As the SAN team lead, what would you advise your team to do so that you can interconnect the two SANs while minimizing disruption?

- A. Use IVR NAT with a transit VSAN between the SANs.
- B. Change the domain IDs on both SANs so that they are both unique and then connect ISLs between the SANs.
- C. Use FCIP with Write Acceleration and IVR version 1 with a transit VSAN to expedite the data transfer between the two SANs.
- D. The two SANs cannot be merged without disruption.

Answer: A (LEAVE A REPLY)

NEW QUESTION: 75

Refer to the exhibit.



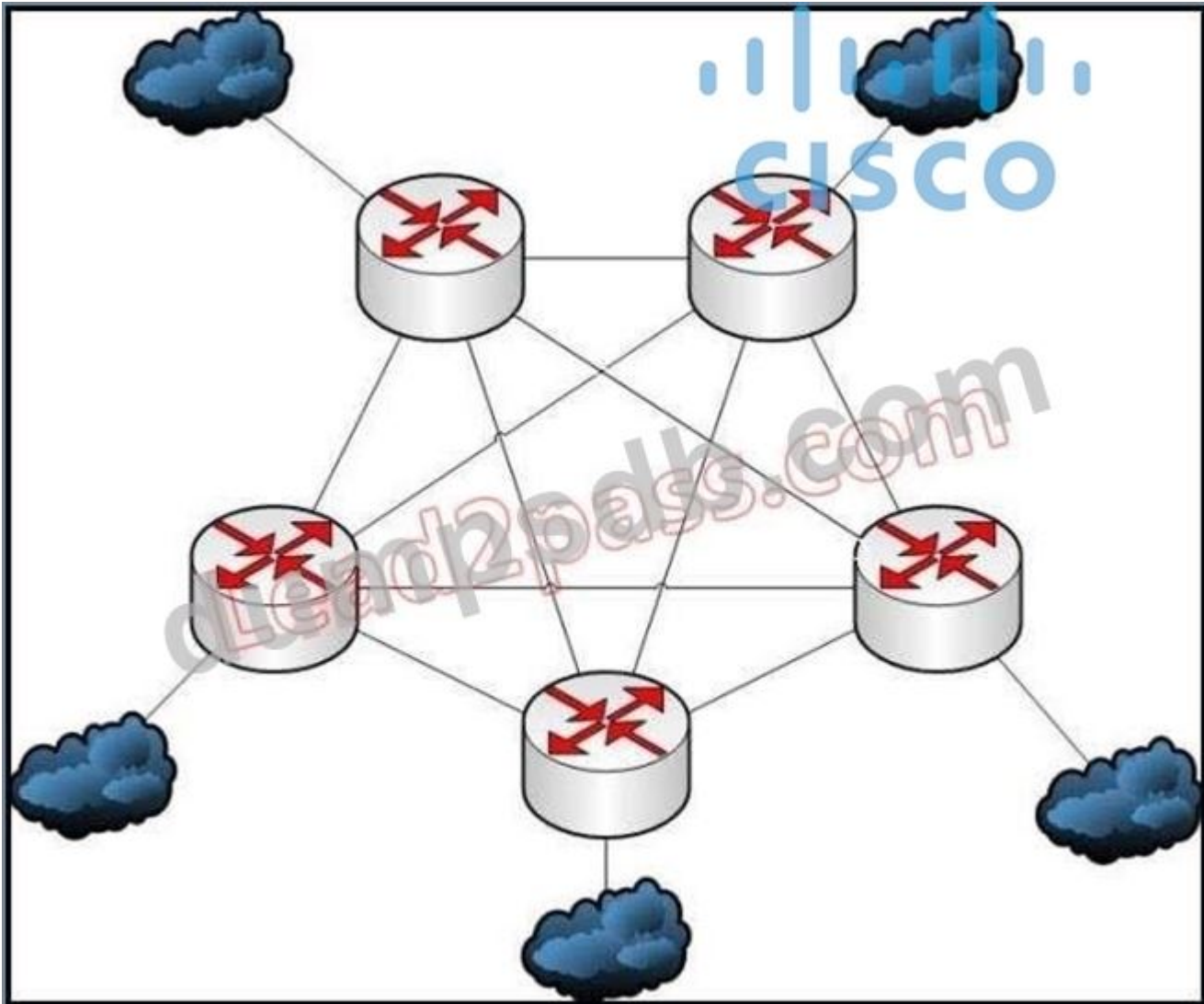
Company A is running a single-area OSPF, and Company B is running RIP as the IGP with no overlapping IP address spaces. Company A has just acquired Company B and both networks must be merged. Which three design components are recommended to guarantee connectivity and redundancy between the two networks? (Choose three.)

- A. Enable mutual redistribution between OSPF and RIP on one border router.
- B. Filter external routes on Router A and Router B based on route tags.
- C. Implement an ACL on Router A and Router B to prevent OSPF external routes from being installed in the OSPF database.
- D. Increase the administrative distance to 130 for the OSPF external prefixes on Router A and Router B
- E.
- F. Enable mutual redistribution between OSPF and RIP on Router A and Router B using route tags.

Answer: C,D,F (LEAVE A REPLY)

NEW QUESTION: 76

Refer to the exhibit. A service provider using IS-IS has designed this network with all core links at the Layer 2 control plane. How will they adjust the design to reduce the flooding of update packets?



- A. Use IS-IS mesh groups.
- B. Change the network type of the links from broadcast to point-to-point.
- C. Configure SPF timers to be more aggressive so that updates are more quickly cleared from the queue.
- D. Change the area type of the links to be level-1-2 to allow level-1 updates.

Answer: A ([LEAVE A REPLY](#))

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NEW QUESTION: 77

Header compression is the most cost-effective way to increase link efficiency for VoIP traffic.

- A. True
- B. False

Answer: A ([LEAVE A REPLY](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 78

What is a design consideration of policy-based routing?

- A. It decreases failure detection time.
- B. It should be implemented at both ends of a GRE tunnel.
- C. It can create microloops during network reconvergence.
- D. It can limit the network scalability.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 79

SCSI interfaces provide for faster data transmission rates (up to 80 megabytes per second) than standard serial and parallel ports. In addition, you can attach many devices to a single SCSI port, so that SCSI is really an I/O bus rather than simply an interface Which two statements about SCSI are true?

- A. The bus is limited to 64 devices.
- B. It is a full-duplex serial standard.
- C. It is a half-duplex serial standard.
- D. It allows up to 320 MB/s of shared channel bandwidth.

Answer: C,D ([LEAVE A REPLY](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 80

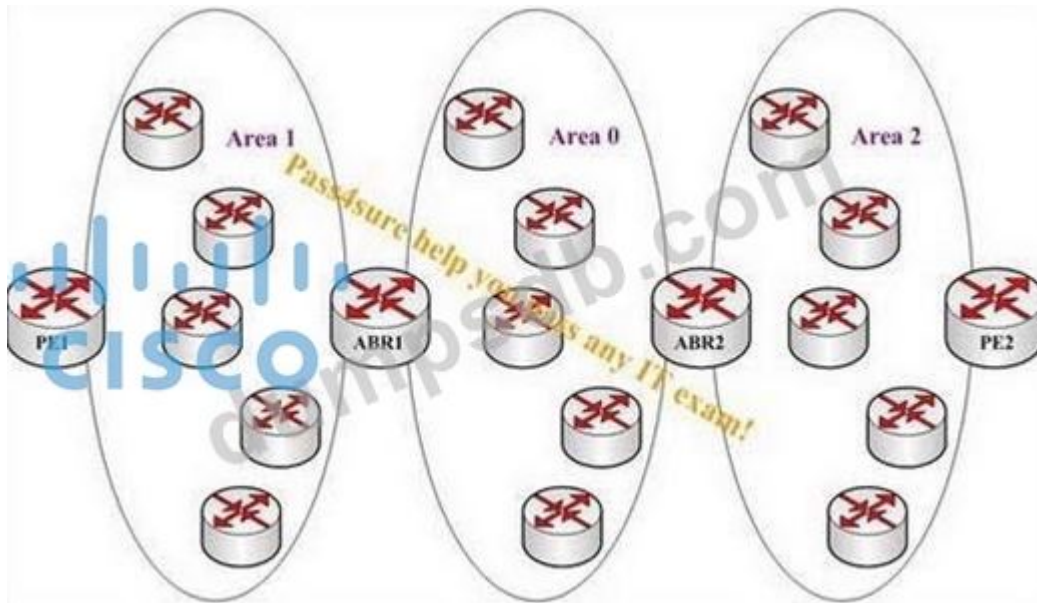
MPLS TE tunnel is created on a PE-router and terminates at another PE-router. Study the exhibit carefully.

A service provider with a multi-area OSPF environment would like to set up Cisco MPLS TE tunnels among provider edge routers across area boundaries. The LSPs are configured with bandwidth constraints and explicit loose route hops as indicated by the arrows in the following path:

PE1 -> ABR1 -> ABR2 -> PE2

The network has enough resources to set up the Cisco MPLS TE tunnel from PE1 to PE2.

For which devices will PE1 run CSPF?



- A. all routers and links in Area 1 only
- B. all routers and links in Area 1 and Area 2 only
- C. all routers and links in Area 0, Area 1, and Area 2
- D. all routers and links in Area 1 and Area 0 only

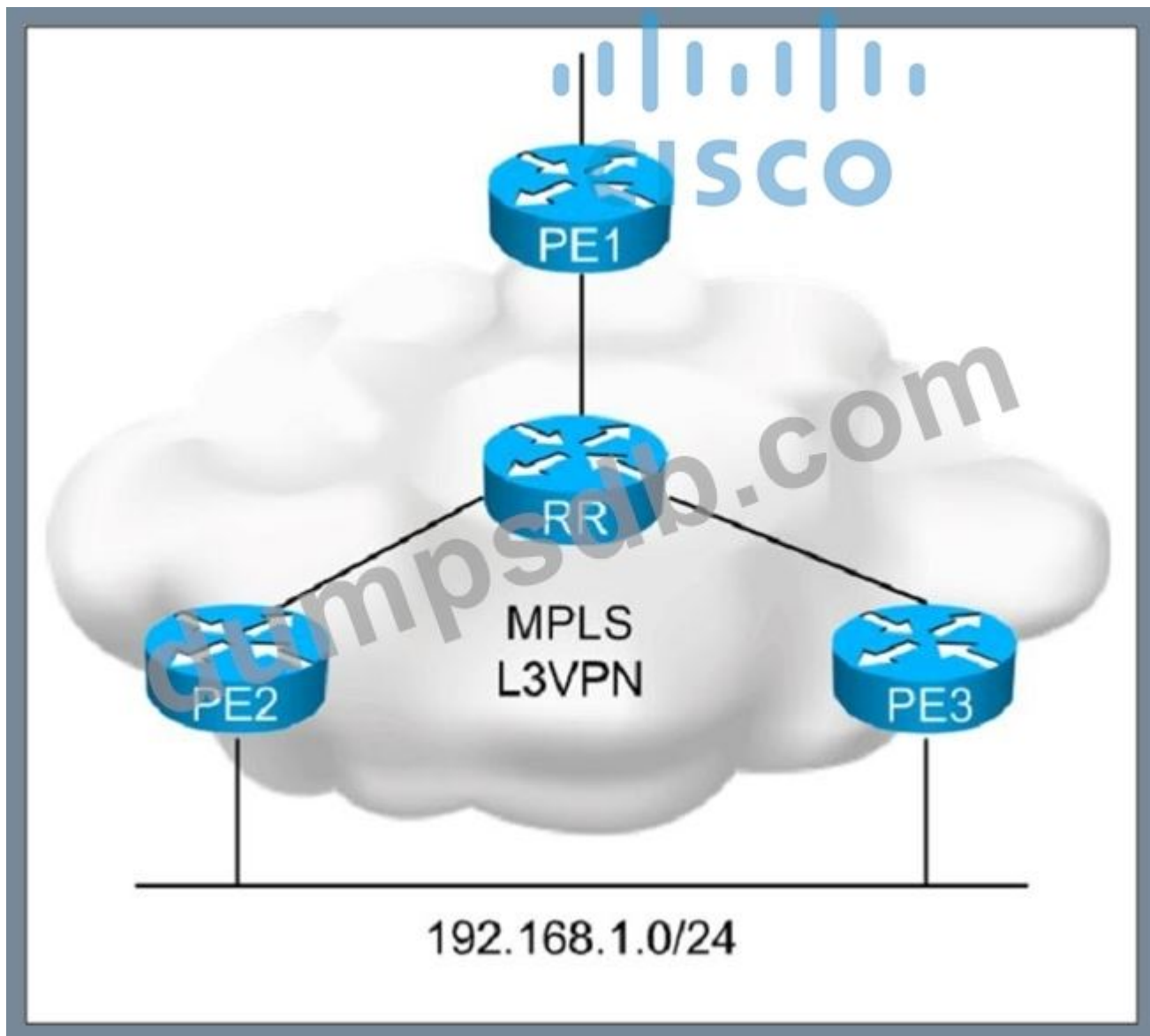
Answer: A (LEAVE A REPLY)

Section: (none)

Explanation/Reference:

NEW QUESTION: 81

Refer to the exhibit.



You are designing an IPv4 unicast Layer 3 VPN load-balancing solution. Which L3VPN feature needs to be configured on the PE routers to support the design requirement?

- A. nonmatching route distinguishers
- B. matching route target values
- C. disable split horizon on PE2 and PE3
- D. matching route distinguishers

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

NEW QUESTION: 82

What is a key role for the access layer in a hierarchical network design?

- A. The access layer provides a security, QoS, and policy trust boundary.
- B. The access layer provides an aggregation point for services and applications.
- C. The access layer serves as a distribution point for services and applications.
- D. The access layer can be used to aggregate remote users.

Answer: A ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 83

You are the lead IP/MPLS network designer of a service provider called XYZ. You are leading a design discussion regarding IPv6 implementation in the XYZ MPLS network, using MPLS 6PE/6VPE techniques.

Currently, XYZ provides IPv4 multicast services over an MPLS network by using MVPN, and would like to provide parallel IPv6 multicast services. Which three multicast solutions should be enabled? (Choose three.)

- A. native IPv6, only for multicast services
- B. MPLS 6PE/6VPE, because it provides IPv6 multicast support by default
- C. an overlay model using Layer 2 MPLS tunnels
- D. PIM-DM to enable IPv6 multicast in conjunction with MPLS 6PE/6VPE
- E. MVPN for IPv6 multicast service

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 84

Acme Corporation wants to minimize the risk of users plugging unauthorized switches and hubs into the network. Which two features can be used on the LAN access ports to support this design requirement?

(Choose two.)

- A. PortFast
- B. BPDU Guard
- C. UDLD
- D. Loop Guard
- E. Port Security

Answer: B,E ([LEAVE A REPLY](#))

NEW QUESTION: 85

Which option is a BFD design consideration?

- A. BFD does not support sessions over MPLS LSPs.
- B. BFD echo mode may reduce convergence time.
- C. BFD is supported on indirectly connected peers.
- D. BFD should not be used with RSVP-TE backup tunnels.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 86

You are designing a WAN network solution with EIGRP based on VPLS. The interface speed is 10 Mb/s, but the access rate of the WAN connection is 256 Kb/s. What should you include in the network design, in order to avoid potential issues with EIGRP?

- A. Limit EIGRP traffic to the access rate with a policer.
- B. Tag outbound EIGRP traffic and have the WAN provider add it to the priority queue.
- C. Limit traffic to the access rate with interface traffic shaping.
- D. Set the interface bandwidth to match the access rate.

Answer: D (LEAVE A REPLY)

Section: Layer 3 ControlPlane

Explanation/Reference:

NEW QUESTION: 87

A certain service provider provides RFC 2547-based L3VPN service and uses OSPF to carry infrastructure routes and MP-BGP to carry customer routes. It has also used a full mesh of Cisco MPLS TE tunnels with FRR for link and node protection. OSPF and BGP have not been tuned for faster convergence.

In this service provider's network, which three failure types does Cisco MPLS TE FRR address? (Choose three.)

- A. P (core) node failure
- B. PE-CE link failure
- C. PE-P link failure
- D. P-P link failure

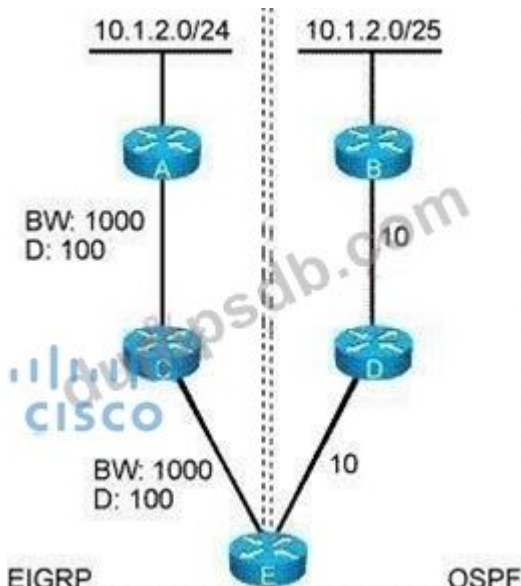
Answer: A,C,D (LEAVE A REPLY)

Section: (none)

Explanation/Reference:

NEW QUESTION: 88

Refer to the exhibit.



Which routes in this network will be installed in the routing table at router E?

- A. the OSPF route
- B. neither the OSPF nor the EIGRP route
- C. the EIGRP route
- D. the OSPF and EIGRP routes

Answer: D (LEAVE A REPLY)

NEW QUESTION: 89

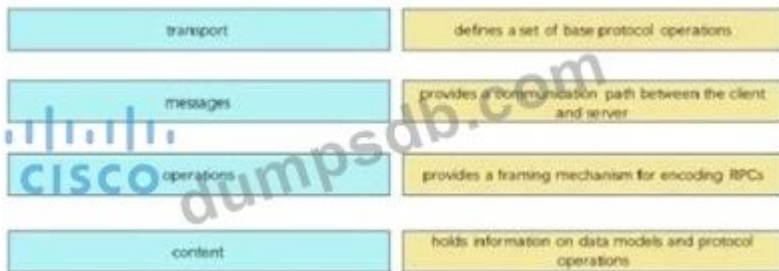
Company ABC uses IPv4-only. Recently they started deploying new endpoint devices. For operational reasons, IPv6 cannot be disabled on these new endpoint devices. Which security measure prevents the new endpoint from learning an IPv6 prefix from an attacker?

- A. Prefix Guard
- B. Secure Neighbor Discovery
- C. Router Advertisement Guard
- D. Source Guard and Prefix Guard

Answer: (SHOW ANSWER)

NEW QUESTION: 90

Drag and drop the NETCONF layers on the left to the correct descriptions on the right



Answer:



NEW QUESTION: 91

You have designed a network to support two offices connected by a T1. Your router serial interfaces will be configured with encapsulation PPP. What will happen to your EIGRP neighbors if there is an LCP failure once your network is implemented?

- A. Your neighbors will drop after the EIGRP timers expire.
- B. Your neighbors will stay up because the link has not gone down.
- C. Your neighbors will drop immediately.
- D. Your neighbors will drop and EIGRP will begin the query process.

Answer: D (LEAVE A REPLY)

Explanation/Reference:

Explanation:

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NEW QUESTION: 92

Drag and drop on the left with the corresponding RIB or FIB function on the right

It contains only the calculated best paths.

It is a control plane function.

It can hold recursive next-hop information.

It is used to make destination prefix-based switching decisions.

RIB

Target 1

Target 2

FIB

Target 3

Target 4

CISCO

Answer:

It contains only the calculated best paths.

It is a control plane function.

It can hold recursive next-hop information.

It is used to make destination prefix-based switching decisions.

RIB

It is a control plane function.

It can hold recursive next-hop information.

FIB

It contains only the calculated best paths.

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CISCO

RIB

It is a control plane function.

It can hold recursive next-hop information.

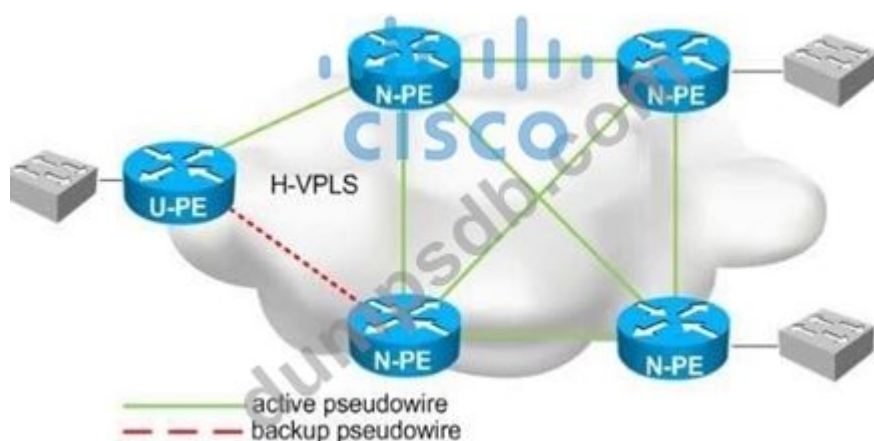
FIB

It contains only the calculated best paths.

It is used to make destination prefix-based switching decisions.

NEW QUESTION: 93

Refer to the exhibit.



You are designing a loop-free hierarchical VPLS service. Which two design considerations should be implemented for the pseudowires between the N-PE and U-PE routers? (Choose two.)

- A. Disable MAC learning on the U-PE route.
- B. Enable split horizon toward the N-PE routers.
- C. Disable MAC learning on the N-PE routers.

- D. Disable split horizon toward the U-PE router.
- E. Enable split horizon toward the U-PE router.
- F. Disable split horizon toward the N-PE routers.

Answer: B,D ([LEAVE A REPLY](#))

NEW QUESTION: 94

Which load balancing option for IP-only traffic is the least efficient in terms of EtherChannel physical links utilization?

- A. On a per port number basis
- B. On a per destination MAC address basis
- C. On a per destination IP address basis
- D. On a per source IP address basis

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 95

In which two ways is a network design improved by the inclusion of IP Event Dampening?
(Choose two.)

- A. reduces processing load
- B. provides sub-second convergence
- C. improves network stability
- D. prevents routing loops
- E. quickly detects network failures

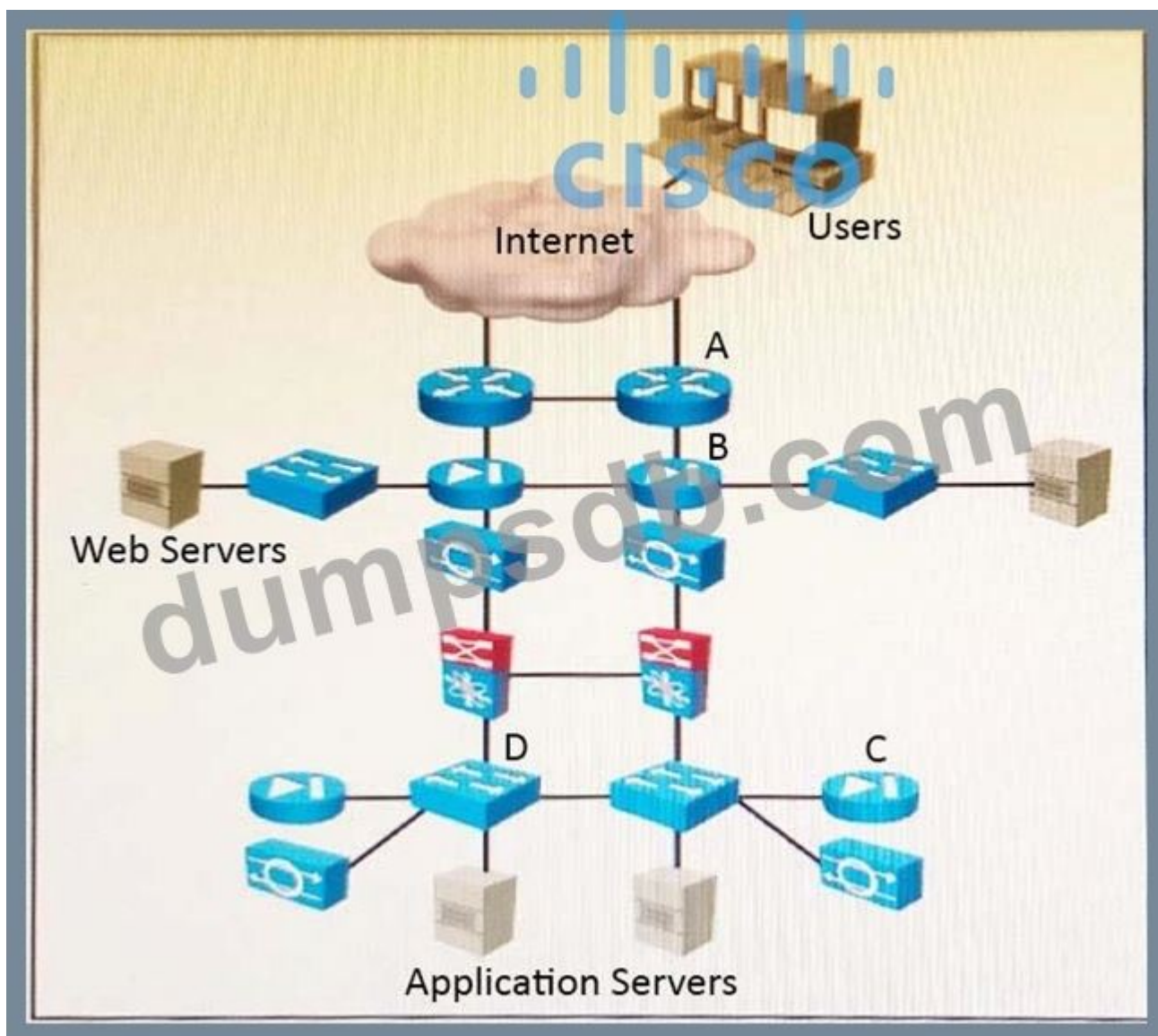
Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 96

Refer to the exhibit. The operations team has identified that some of the multi-tiered e-commerce applications have slow performance, due to illegitimate inbound traffic from the Internet. On which network device do you place traffic filtering to improve performance?



- A. B
- B. D
- C. A
- D. C

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 97

A company is planning to connect its 30 sites with a VPLS WAN backbone. A router at each site should establish neighborships with all other routers using the OSPF routing protocol. Which three points must be considered regarding DR and BDR when different router platforms are used? (Choose three.)

- A. It is a best practice that the routers with the most powerful hardware should take the role of the DR and BDR.
- B. To select the DR and BDR, the IP OSPF priority must be set to a higher value than the default value at the DR and BDR during the selection process.

C. To force two routers to become a DR and a BDR, the IP OSPF priority can be set to zero at all other OSPF routers.

D. If the IP OSPF priority is the same for all routers, the highest loopback IP address and router ID will decide which routers will take the DR and BDR role during the selection process.

E. The role for the DR and BDR will be selected when a new OSPF router comes up.

F. To select the DR and BDR, the IP OSPF priority must be set to a lower value than the default value at the DR and BDR during the selection process.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 98

A large enterprise network has two data centers and a WAN edge in a hub-and-spoke network topology.

The entire network is in a single OSPF area. Spoke routers are connected to unreliable WAN links. Which two changes must be made to deploy LSA filtering on the spoke routers? (Choose two.)

A. Configure the hub routers as ABRs

B. Place spoke routers in stub areas

C. Keep the spoke routers in normal areas

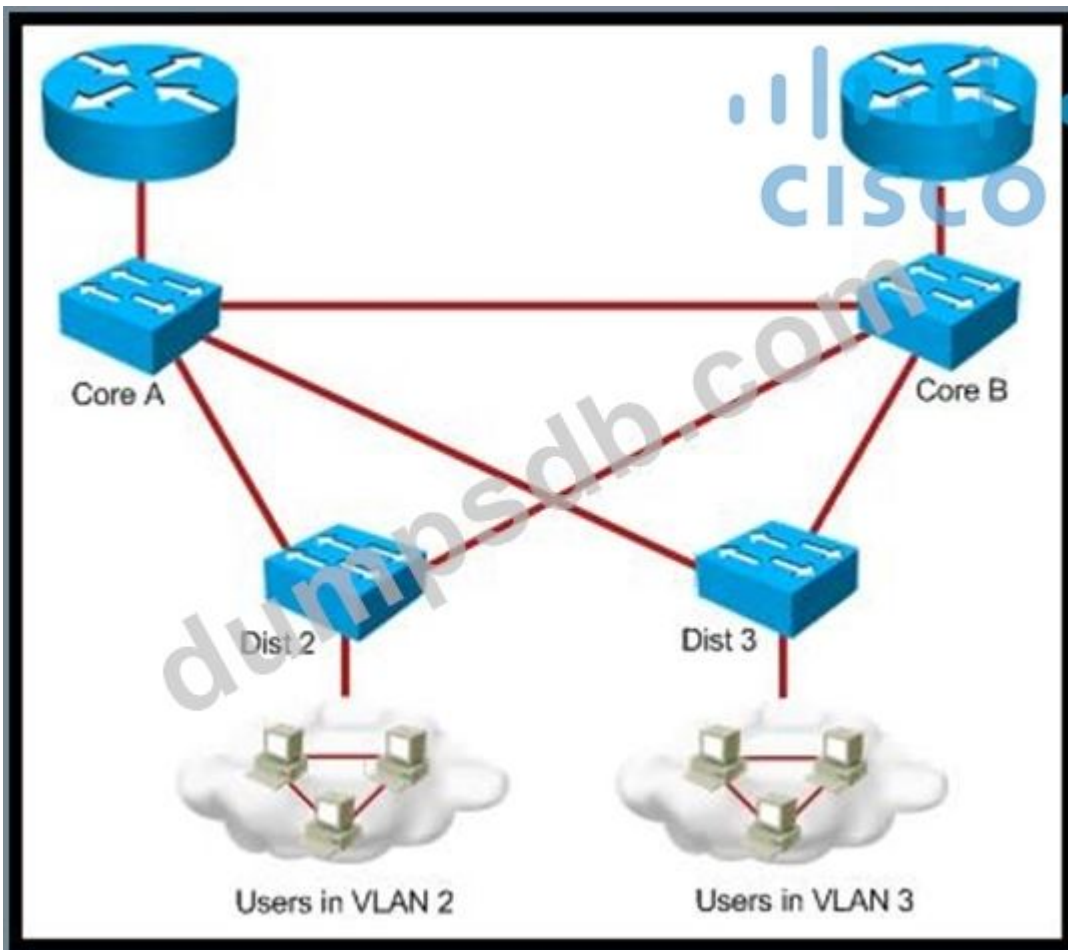
D. Place spoke routers in totally stubby areas

E. Configure the hub routers as ASBRs

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 99

Refer to the exhibit.



You are designing a spanning-tree network for a small campus. Which two of these options would result in a trouble-free spanning-tree network design? (Choose two.)

- A. Convert all ports to trunk ports, prune off the VLANs that you do not require, and minimize the number of blocking ports.
- B. Convert all the ports to trunk and enable UplinkFast between all the links.
- C. Convert all the ports to trunk and enable BackboneFast.
- D. Introduce Layer 3 VLANs (SVIs) and prune off the VLANs that you do not require.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 100

You have been asked to design a wireless network solution that will implement context-aware services on an existing network that was initially deployed for data traffic only. Which two design principles would you follow to increase the location accuracy with the least possible impact on the current setup?

(Choose two.)

- A. Use directional antennas to provide better cell separation.
- B. Install additional APs in monitor mode where the cochannel interference would otherwise be affected.
- C. Add access points along the perimeter of the coverage area.
- D. Increase the AP density to create an average interaccess point distance of less than 40 ft.

E. Fine tune the access points radio configuration to have a higher average transmission power to achieve better coverage.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 101

You are the lead network designer hired by Service Provider XYZ to deploy CoS functionality on the core MPLS network (P routers). The goal of the network design is to provide a complete CoS solution to all customers that purchase services such as dedicated Internet access, MPLS L3VPN, and L2VPN (pseudowire). Service Provider XYZ has these design requirements:

- * The network supports four service queues with equal treatment for delay, jitter, and packet loss.
- * Queues are numbered 0-3, where 0 is the default queue.
- * Three queues have one treatment.
- * One queue has either one or two treatments.

If your design includes eight CoS queues on the Service Provider XYZ MPLS PE router ingress (CE facing) interface, how will customer traffic be classified as it enters the MPLS P routers?

- A.** The 8 CoS queues in the MPLS P router are remapped to four 4 flow-label queues.
- B.** The eight CoS queues in the MPLS P router are remapped to the eight CoS queues.
- C.** Discard the traffic from the eight CoS queues that does not match the four CoS queues of the MPLS P routers.
- D.** Traffic is classified on the MPLS PE routers on core facing interface. The DSCP value is mapped into EXP field where multiple EXP settings (2+) will be assigned to a single queue throughout the MPLS P routers.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 102

You are tasked with implementing a 1000-phone remote access solution, where phones will traverse a WAN edge router. Assuming all of the following features are supported in a hardware-assisted manner, which of the following will have the most detrimental impact on the delay of the packet?

- A.** encryption
- B.** stateful firewall
- C.** MPLS encapsulation
- D.** GRE encapsulation

Answer: **A** ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 103

As network designer, which option is your main concern with regards to virtualizing multiple network zones into a single hardware device?

- A. CPU resource allocation
- B. Fate sharing
- C. Bandwidth allocation
- D. Congestion control
- E. Security

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 104

Which technique can you use to detect forwarding path failures at a uniform rate, and reconvergence times will be consistent and predictable when your routers are in the same broadcast domain?

- A. Enable BFD on your routers.
- B. Configure your routers with IP-SLA to ping the peer router.
- C. Configure your routers with IP-SLA and track to ping the peer and switch to a default route if the pings fail.
- D. Tune your routing protocol timers.

Answer: A ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 105

Drag and drop the natures of the network events from the left onto the OSPF-SPF calculation types on the right.

The image shows a drag-and-drop activity interface. On the left side, there are six light blue boxes containing text describing network events:

- Triggered by a LSA Type 3 (Inter area), all LSA Type 3 that contribute to the certain destination are processed.
- Triggered by a LSA Type 5 (External) or a LSA Type 7 (NSSA External), all LSA Type 5 or Type 7 that contribute to the certain destination are processed.
- the shortest path topology tree is recomputed.
- LSA types 1, 2, 3, 4, 5, and 7 are processed.
- Triggered by the change in the LSA Type 3 (Inter area, LSA Type 4 (ASBR), LSA Type 5 (External), and LSA Type 7 (External NSSA).
- Triggered by a change in a LSA Type 1 (Router) or a LSA Type 2 (Network).

On the right side, there are two columns of yellow boxes for dropping the events:

- Full SPF Calculation:** Three empty yellow boxes.
- Partial SPF Calculation:** Three empty yellow boxes.

A watermark 'dumpsqb.com' is visible across the image.

Answer:



NEW QUESTION: 106

You are designing dual-homed active/active ISP connections from an enterprise customer for internet services, and you have recommended BGP between the customer and ISP.

When three security mechanisms do you enable to secure the connection? (Choose three)

- A. GTSM
- B. Routing protocol authentication
- C. remote triggered black holes
- D. uRPF is strict mode
- E. uRPF in loose mode

F. IDS

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 107

You are designing a network using multipoint GRE tunnels and need to be able to detect when connectivity between the GRE tunnel endpoints is broken. Which statement is true about configuring keepalives for multipoint GRE tunnels?

- A. The keepalive timer values on the routers must have the same value.
- B. Both routers must support GRE tunnel keepalives.
- C. No configuration is required to detect when connectivity is broken between the GRE tunnel endpoints.
- D. GRE tunnel keepalives will not detect when connectivity is broken between the GRE tunnel endpoints.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 108

Which three options are IS-IS design considerations when connecting two Layer 3 switches directly using a 10 GBASE-T cabling and formatting an IS-IS neighbor adjacency?

- A. A DIS is elected between the IS-IS neighbors and the elected DIS is pre-empted if router with a higher system ID is connected
- B. The hello and dead timers must match for two IS-IS routers to become adjacent
- C. A DIS is elected between the IS-IS neighbors and the elected Dis is pre-empted if a router with a lower system ID is connected
- D. Faster IS-IS hello and dead timers increase bandwidth and CPU use, and may cause instability
- E. The IS-IS hello and dead timers should be tuned to detect failures as quickly as possible
- F. The area, levels, and interface MTU parameters must match, and system MTU must be unique for two IS-IS routers to become adjacent
- G. The default IS-IS network type is point-to-point so a DIS is not elected

Answer: C,D,F ([LEAVE A REPLY](#))

NEW QUESTION: 109

You are a network designer and are responsible for ensuring that the network you design is secure. How do you plan to prevent infected devices on your network from sourcing random DDoS attacks using forged source addresses?

- A. Unicast RPF strict mode
- B. ACL-based forwarding
- C. ACL filtering by destination
- D. Unicast RPF loose mode

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 110

You are designing an Out of Band Cisco Network Admission Control, Layer 3 Real-IP Gateway deployment for a customer. Which VLAN must be trunked back to the Clean Access Server from the access switch?

- A. management VLAN
- B. untrusted VLAN
- C. user VLAN
- D. authentication VLAN

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 111

A customer is using a service provider to provide a WAN backbone for a 30-site network. In establishing the network, the customer must work within these constraints:

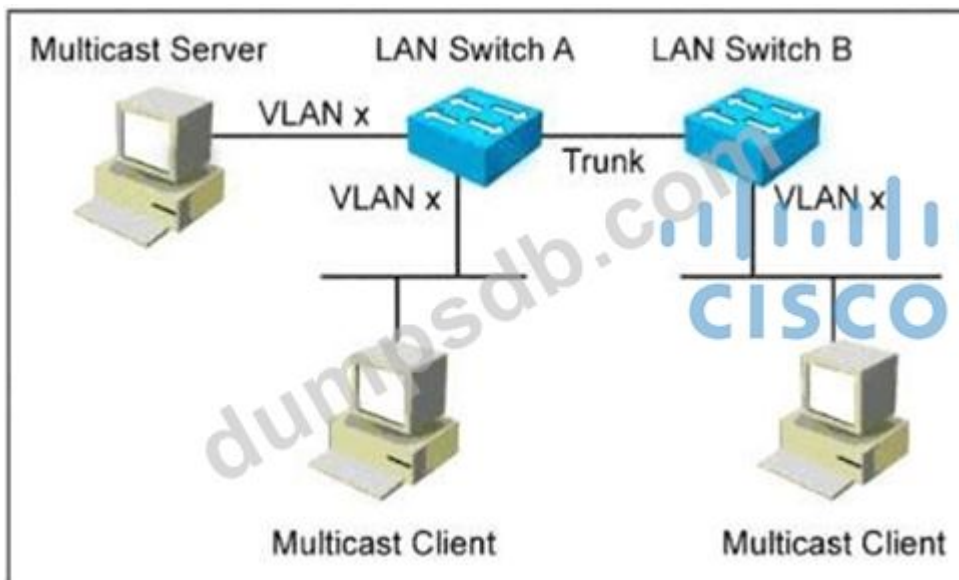
- * The customer has a self-managed MPLS backbone.
- * The VPLS WAN backbone of the service provider does not support PIM snooping.
- * Multicast VPN must be used for multicast support inside some VRFs.

What can the customer do so that multicast traffic is NOT flooded to all sites?

- A. Use GET VPN to encrypt the multicast packets inside the WAN.
- B. Use PIM-SSM as the multicast routing protocol with IETF Rosen Draft multicast VPN.
- C. Configure a static mapping between multicast addresses and MAC addresses.
- D. Configure static GRE tunnels and run the MPLS and multicast VPN inside these GRE tunnels.
- E. Use Label Switched Multicast for the multicast transport.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 112



Refer to the exhibit Assume that no multicast optimization is done on LAN switches A and B Which two solutions can be used to optimize multicast traffic forwarding in this situation? (Choose two)

- A. Disable IGMP snooping on both switches
- B. Disable the IGMP query election process
- C. Configure a static MAC entry for the multicast server
- D. Enable IGMP snooping querier on both switches
- E. Enable PIM snooping on both switches

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 113

What is the reason that IGP advertisements should be disabled on an access link where a host is attached?

- A. to reduce router overhead
- B. to prevent the injection of bad routes
- C. because edge hosts are statically routed
- D. because hosts do not run routing protocols

Answer: B ([LEAVE A REPLY](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 114

Company ABC is using an Ethernet virtual circuit as its provider's DCI solution. A goal is to reduce the time to detect the link failure. Which protocol accomplishes this goal?

- A. Link aggregation group
- B. UDLD
- C. Ethernet OAM
- D. Spanning tree bridge assurance

Answer: C (LEAVE A REPLY)

NEW QUESTION: 115

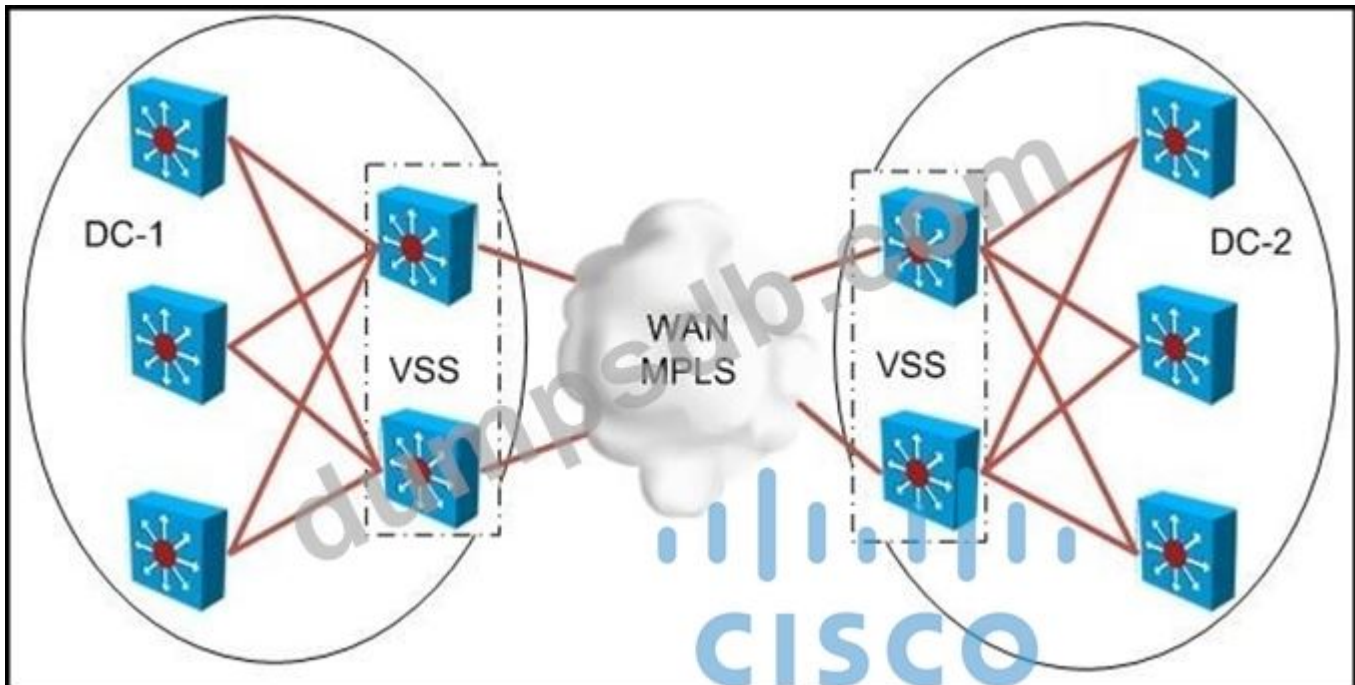
A company is planning to deploy high-availability cluster support for their servers in a collapsed core data center design. Which issue should be a concern with this design?

- A. Layer 2 domain sizing
- B. MAC address aging
- C. Layer 3 domain sizing
- D. NIC teaming

Answer: A (LEAVE A REPLY)

NEW QUESTION: 116

Refer to the exhibit.



When designing an MPLS-based LAN extension between DC-1 and DC-2, what are three advantages of deploying VSS? (Choose three.)

- A. Layers 2, 3, and 4 flow-based load balancing
- B. native VSS and MEC failover without using scripts
- C. sub-second failover
- D. required to configure VPLS
- E. failover time depends on Cisco IOS EEM and STP convergence
- F. limited VLAN-based VPLS traffic hashing

Answer: A,B,C (LEAVE A REPLY)

Explanation/Reference:

Explanation:

NEW QUESTION: 117

A Mobile Service Provider would like to design and deploy an Ethernet service which has similar physical link failover/failback characteristics on the active/backup links as the APS/MSP SONET properties. Which Layer 2 services should be considered to address this design feature?

- A. Flex Link
- B. Ethernet Pseudowires
- C. Port-Channel
- D. MLPPP

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 118

Which IPsec design solution supports direct spoke-to-spoke communications across the Internet and easy provisioning of new sites?

- A. DMVPN
- B. fully meshed IPsec with GRE tunnels
- C. fully meshed direct IPsec
- D. GET VPN

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 119

Which solution provides interoperability and protects data traffic from eavesdropping?

- A. IPsec-VPN
- B. Cisco MPLS TE
- C. DMVPN
- D. GET-VPN

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 120

Why does EIGRP use queries?

- A. to withdraw routing information from the network
- B. to find alternate loop-free paths that have been discarded due to split horizons
- C. to test for neighbor state when the network topology is in flux
- D. to test known alternate paths and determine if they are loop-free

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 121

Which solution suppress the effect of excessive interface flapping events on routing protocols?

- A. BFD
- B. SPF Backoff
- C. IP Event Dampening
- D. Carrier Delay

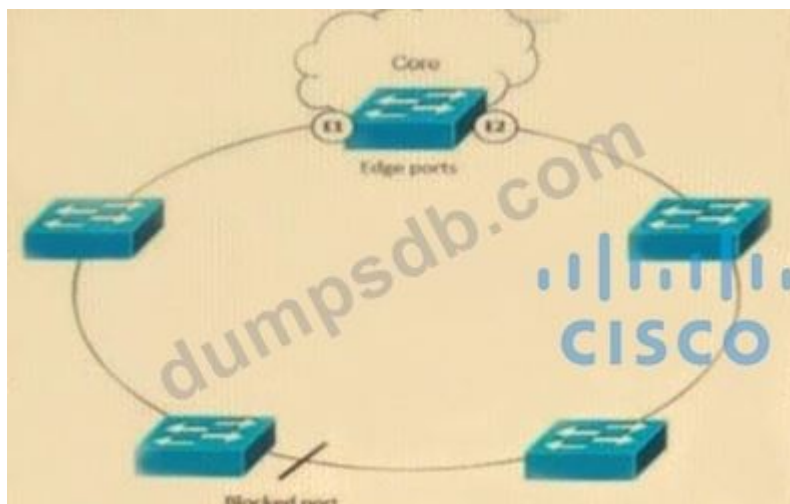
Answer: C ([LEAVE A REPLY](#))

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NEW QUESTION: 122



Refer to the exhibit. As the new network designer for a manufacturing company. You are designing this resilient. Ethernet ring of the plant Ethernet network that is connected to the core, which does not use STP.

Both edge ports are on the same switch in a ring segment. There is connectivity between the edge ports throughout the segment, so you can create a redundant connection between any two switches in the ring.

Which three characteristics of this design are true? (Choose two)

- A.** If a link fails then the alternate ports quickly unblock. When the failed link comes back up, a logically blocked port per VLAN is selected with minimal disruption to the network
- B.** If all ports in the segment are operational, then two ports are in the blocked state for each VLAN
- C.** If all ports in the segment are operational, then one port is in the blocked state for each VLAN
- D.** If VLAN load balancing is configured, then one port in the segment controls the blocked state of VLANs
- E.** If a link fails then the alternate ports Quickly unblock. When the failed link comes back up. a physically blocked port per VLAN is selected with minimal disruption to the network

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 123

Network designers plan to interconnect two geographically separated data centers using an Ethernet-over-MPLS pseudowire. Within that design, the link between the sites is stable, there are no apparent loops in the topology, and the root bridges for the respective VLANs are stable and unchanging. What additional aspect of the design should be adjusted to mitigate the chance of connectivity issues to the peer data center when the connection takes place?

- A. Ensure that the spanning tree diameter for one or more VLANs is not too large.
- B. Enable root guard on the link between the data centers.
- C. Enable 802.1d on one data center, and 802.1w on the other.
- D. Enable UDLD on the link between the data centers.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 124

Which effect of designing a Layer 2 network using the PortFast fast feature with PVST+ is true?

- A. It shuts down the port when receiving the superior BPDU
- B. In combination with BPDU filtering, it causes the switch port to stay in the forwarding state
- C. It moves the switch port directly to the forwarding state
- D. It accelerates the network convergence on the trunk uplinks

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 125

DRAG DROP

A company recently had an outage after an employee plugged a switch into the corporate network, causing a change in the root bridge selection. You have been tasked to redesign the network to avoid such outages in the future. Drag the Rapid PVST+ features (on the left) that will prevent reoccurrences of this incident and drop them into their definitions on the right.

Root Guard	A deterministic method to set the root bridge and the backup root bridge for each VLAN
BPDU Guard	Prevents switches from propagating old or corrupt VLAN information through the Layer 2 network
DTP	Puts the interface into an errdisable state if a connected device attempts to participate in STP
VTP Set to Transparent	A preventive method of protecting an interface from accepting a superior BPDU
PortFast	
Spanning-Tree Priority Changed from Default	

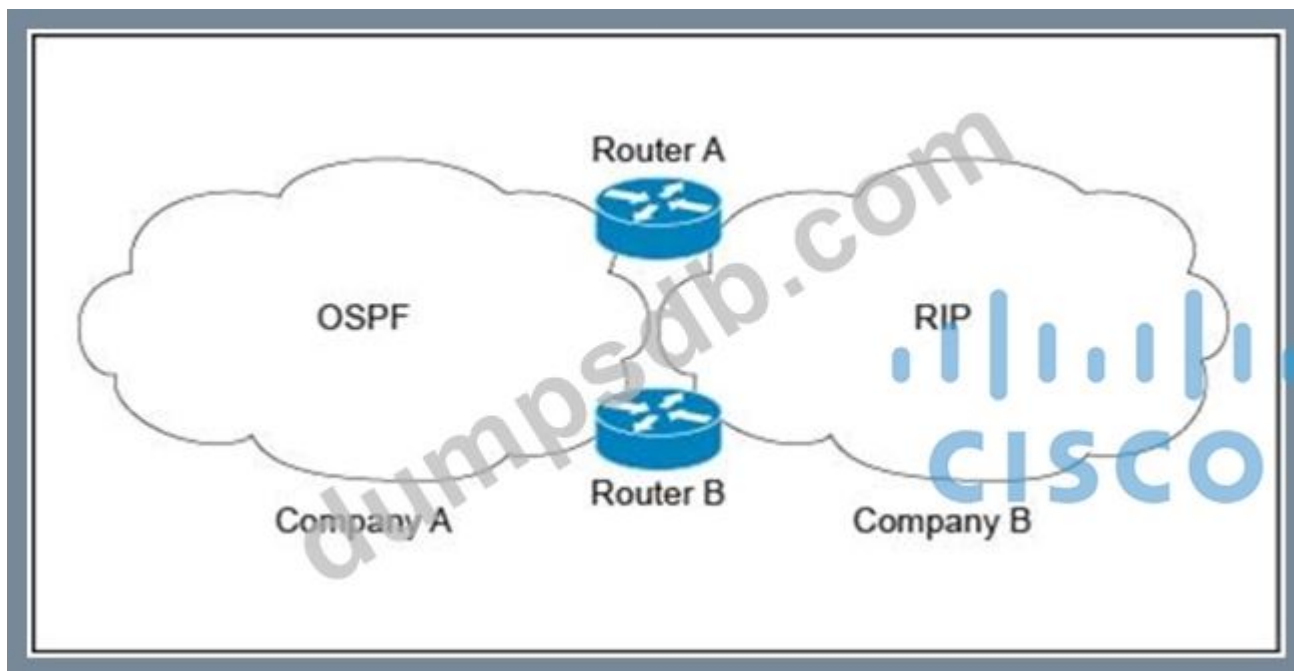
Answer:

A company recently had an outage after an employee plugged a switch into the corporate network, causing a change in the root bridge selection. You have been tasked to redesign the network to avoid such outages in the future. Drag the Rapid PVST+ features (on the left) that will prevent reoccurrences of this incident and drop them into their definitions on the right.

Root Guard	Spanning-Tree Priority Changed from Default
BPDU Guard	VTP Set to Transparent
DTP	BPDU Guard
VTP Set to Transparent	Root Guard
PortFast	
Spanning-Tree Priority Changed from Default	

NEW QUESTION: 126

Refer to the exhibit.



Company A is running a single-area OSPF, and Company B is running RIP as the IGP with no overlapping IP address spaces. Company A has just acquired Company B and both networks must be merged. Which three design components are recommended to guarantee connectivity and redundancy between the two networks? (Choose three.)

- A. Filter external routes on Router A and Router B based on route tags.
- B. Enable mutual redistribution between OSPF and RIP on one border router.
- C. Implement an ACL on Router A and Router B to prevent OSPF external routes from being installed in the OSPF database.
- D. Enable mutual redistribution between OSPF and RIP on Router A and Router B using route tags.
- E. Increase the administrative distance to 130 for the OSPF external prefixes on Router A and Router B.

Answer: A,D,E ([LEAVE A REPLY](#))

NEW QUESTION: 127

Which three terms describe an OS-level virtualization method for deploying and running distributed applications? (Choose three)

- A. virtualized networking
- B. container-based virtualization
- C. container stack
- D. application containerization
- E. shared kernel
- F. container networking
- G. containerization

Answer: B,D,G ([LEAVE A REPLY](#))

NEW QUESTION: 128

You are designing an Out of Band Cisco Network Admission Control, Layer 3 Real-IP Gateway deployment for a customer. Which VLAN must be trunked back to the Clean Access Server from the access switch?

- A. management VLAN
- B. untrusted VLAN
- C. user VLAN
- D. authentication VLAN

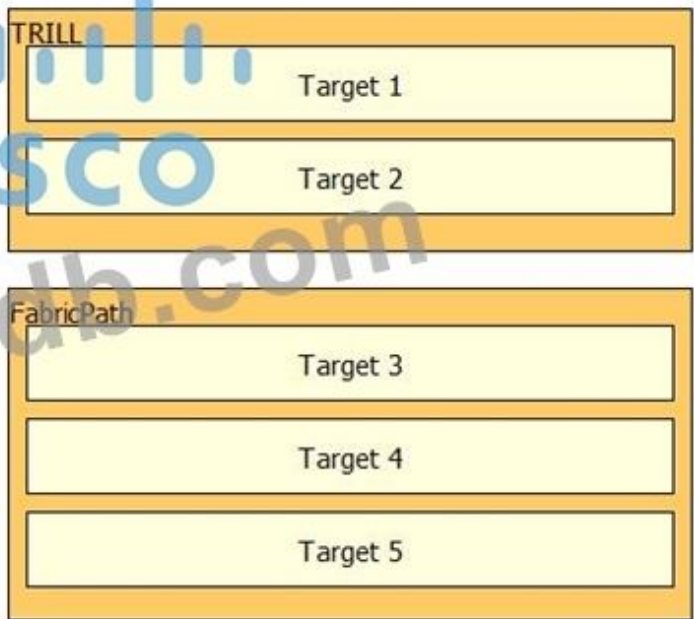
Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 129

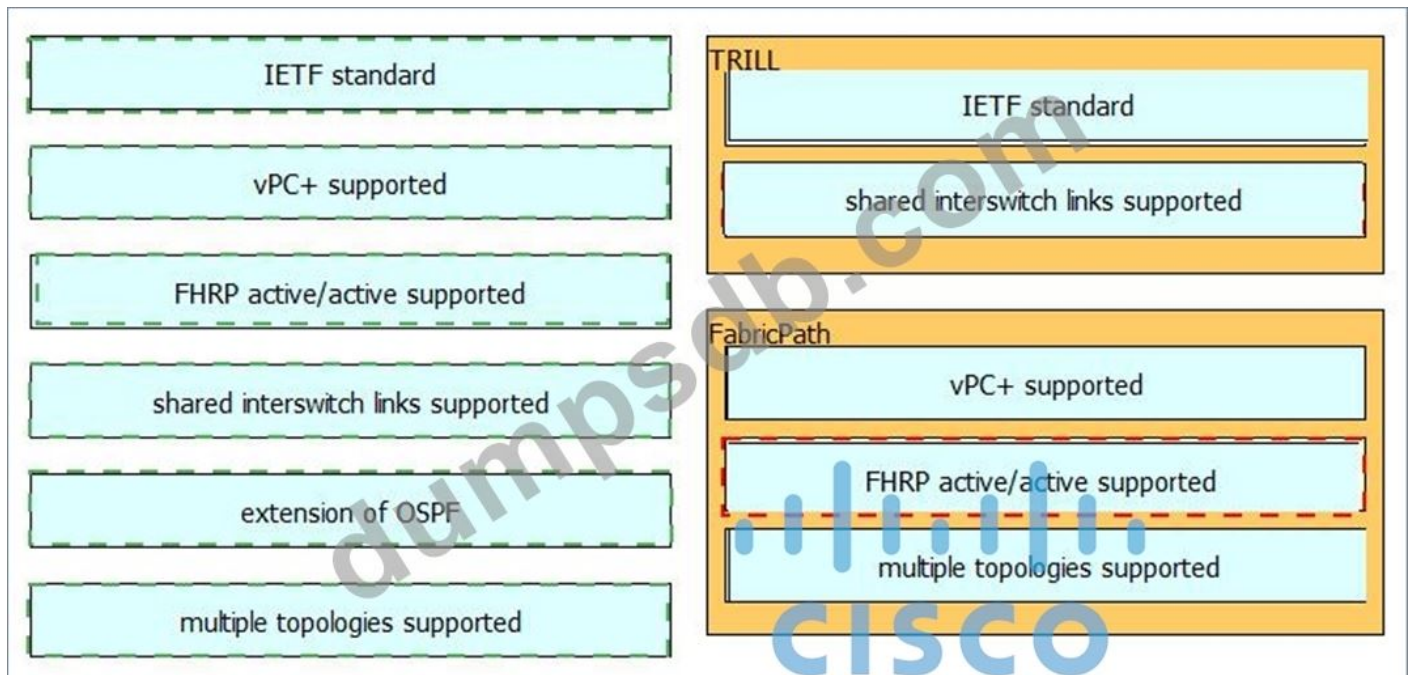
DRAG DROP

Drag and drop the technology details or features support on the left into the corresponding Layer 2 multipath technologies on the right. Not all options will be used.

- IETF standard
- vPC+ supported
- FHRP active/active supported
- shared interswitch links supported
- extension of OSPF
- multiple topologies supported



Answer:



NEW QUESTION: 130

Your design plan includes mutual redistribution of two OSPF networks at multiple locations, with connectivity to all locations in both networks. How is this accomplished without creating routing loops?

- A. Use route maps on the ASBRs to allow only internal routes to be redistributed.
- B. Use route maps on the ASBRs to allow internal and external routes to be redistributed.
- C. Use route maps on the ASBRs to set tags for redistributed routes.
- D. Use route maps on the ASBRs to filter routes with tags so they are not redistributed.

Answer: D (LEAVE A REPLY)

Explanation/Reference:

great answer.

NEW QUESTION: 131

Which two techniques are used in a network design to slow down the distribution of topology information caused by a rapidly flapping link? (Choose two.)

- A. SPF throttling
- B. link-state incremental SPF
- C. link-state partial SPF
- D. IP event dampening
- E. LSA throttling
- F. Bidirectional Forwarding Detection

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 132

A retail company connects its 250 branches across the globe to the core using MPLS Layer 3 VPN. The company is planning to migrate its traditional telephony services to Volp, in order to reduce the cost of international calls. What are the two primary concerns when implementing this migration? (Choose two)

- A. Call routing design
- B. MTU
- C. Available bandwidth
- D. SRST
- E. Jitter

Answer: C,E ([LEAVE A REPLY](#))

NEW QUESTION: 133

Refer to the exhibit



Refer to the exhibit You are designing this network to support voice communication between software and hardware endpoints To ensure quality, the decision is to implement a DiffServ QoS model with priority queuing Which admission criteria option do you recommend?

- A. Implement a LLQ on switches
- B. Monitor packet drops on the router to identify possible oversubscription
- C. Implement active queue management on the routers only
- D. Police voice traffic on the switches
- E. Implement a LLQ on routers

Answer: E ([LEAVE A REPLY](#))

NEW QUESTION: 134

You are designing an IPv4 any source multicast redundancy solution. Which technology ensures the quickest RP convergence?

- A. bootstrap router
- B. Auto-RP
- C. MSDP anycast RP
- D. Embedded RP

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 135

A network design includes a long signaling delay in notifying the Layer 3 control plane that an interface has failed. Which two of these actions would reduce that delay? (Choose two.)

- A. Increase the notification of interface flaps.
- B. Reduce the time for the network to reconverge.
- C. Increase network stability.
- D. Enable lower data link layer recovery systems to have an opportunity to restore the interface.

Answer: B,D ([LEAVE A REPLY](#))

NEW QUESTION: 136

A network design engineer is designing a new storage area network that combines multiple separate legacy SAN environments within a data center. Which technology isolates events within one of the SAN environment from the others?

- A. FCIP tunnels
- B. Virtual SANs
- C. N-Port Virtualization
- D. N-port ID Virtualization

Answer: B ([LEAVE A REPLY](#))

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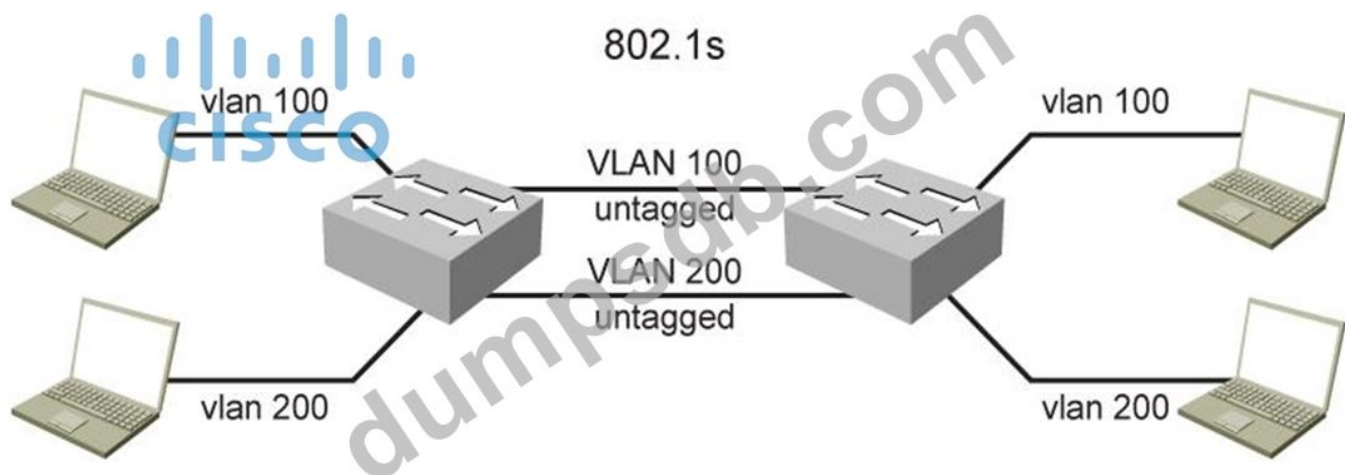
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NEW QUESTION: 137

Refer to the exhibit.



You are designing a network using the Multiple Spanning Tree Protocol for loop avoidance. VLAN trunking is not allowed due to security requirements. Which option describes how you can design this Layer 2 network while using untagged interfaces between both switches?

- A. Assign VLAN 100 and VLAN 200 to the IST instance.
- B. Assign VLAN 100 and VLAN 200 to instance 1.
- C. Assign VLAN 100 to the IST instance and VLAN 200 to instance 1.
- D. Assign VLAN 100 to instance 1 and VLAN 200 to instance 2.

Answer: D (LEAVE A REPLY)

NEW QUESTION: 138

Which three factors slow down network convergence? (Choose three.)

- A. lack of redundant paths
- B. inconsistent topology states between routers
- C. transport network failing to generate LoS
- D. wrong summarization in ABRs
- E. constant interface flapping

Answer: B,C,E (LEAVE A REPLY)

NEW QUESTION: 139

Which of these is a reason to carry routes that originate outside your network in an EGP, such as BGP, rather than in your IGP, such as OSPF, EIGRP, or IS-IS?

- A. to provide a growth path for the core of your network
- B. to provide faster convergence to destinations outside your network
- C. to provide better control over the distribution of the default route inside your network
- D. to prevent failures outside your network from impacting your internal network operation

Answer: D (LEAVE A REPLY)

NEW QUESTION: 140

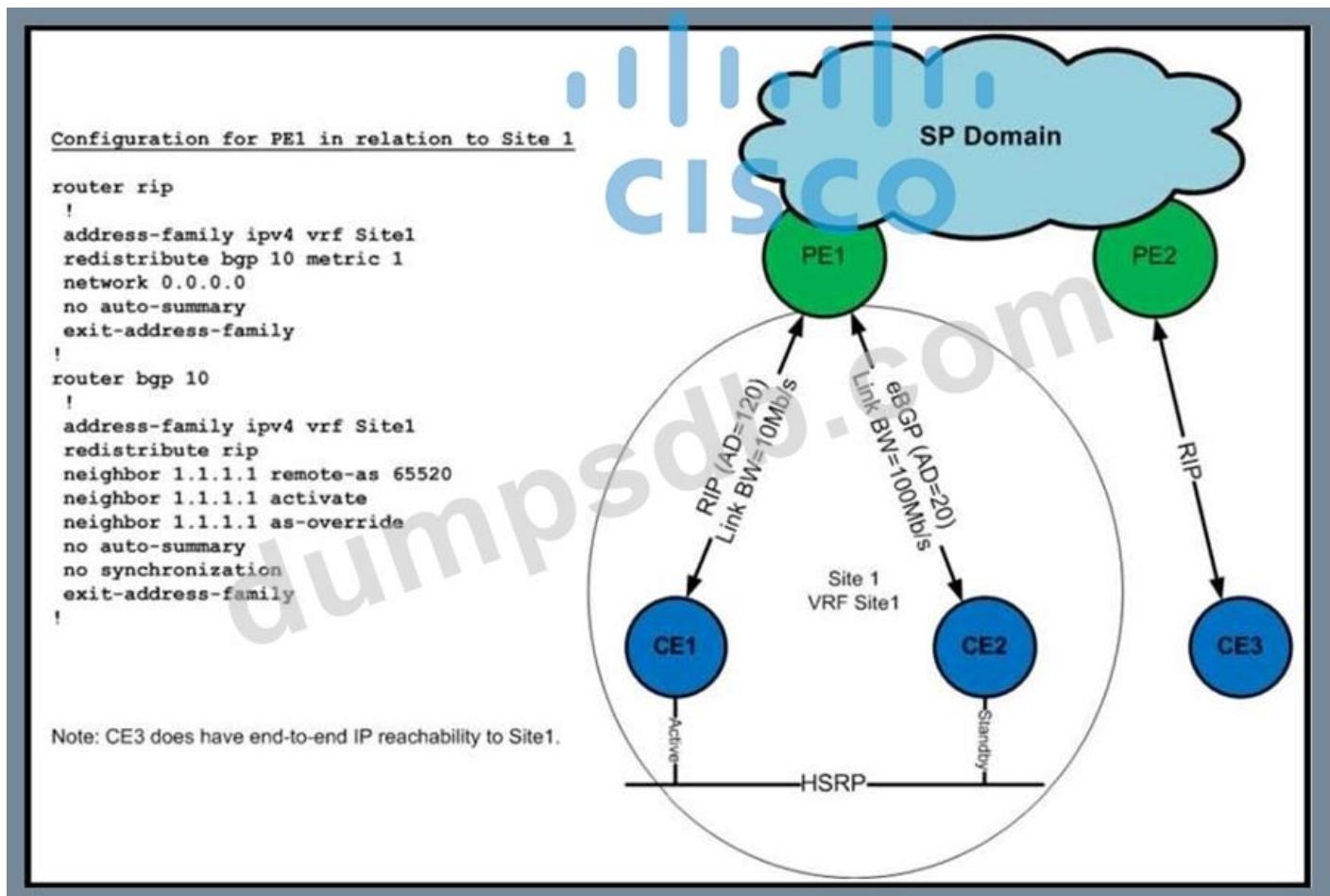
ACME Corporation is integrating IPv6 into their network, which relies heavily on multicast distribution of data. Which two IPv6 integration technologies support IPv6 multicast? (Choose two.)

- A. 6VPE
- B. dual stack
- C. IPv6INIP
- D. ISATAP
- E. 6to4
- F. 6PE

Answer: B,C ([LEAVE A REPLY](#))

NEW QUESTION: 141

Refer to the exhibit.



Your junior design engineer presents this configuration design. What is the next-hop router for CE3, and why?

- A. CE1. HSRP on CE1 is in active state.
- B. CE2. The link between CE2 and PE1 has more bandwidth than CE1-to-PE1.
- C. CE2. EBGp administrative distance is lower than RIP.
- D. CE1. BGP weight is higher than CE2.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 142

What are three advantages of using ISATAP? (Choose three.)

- A. It does not require any changes on the underlying IPv4 network to operate.

- B. It works with both private and public addressing spaces.
- C. It is easier to set up than other tunneling mechanisms, such as 6RD and 6to4.
- D. It is supported on many platforms, such as Linux, Windows, and Cisco IOS Software.
- E. It is a point-to-multipoint tunneling mechanism.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 143

A metro service provider is planning Resilient Ethernet Protocol for his backbone. Which two aspects must be considered before the network design is finalized? (Choose two.)

- A. A Resilient Ethernet Protocol segment is limited to a maximum of seven devices.
- B. Two Resilient Ethernet Protocol segments can be connected redundantly at two points. One connection will be blocked, using the Spanning Tree Protocol defined in IEEE 802.1D.
- C. UniDirectional Link Detection Protocol can be enabled on Resilient Ethernet Protocol interfaces to detect unidirectional failures.
- D. VLAN load balancing for optimal bandwidth usage is supported in any Resilient Ethernet Protocol segment.
- E. The guaranteed convergence recovery time is less than 50 ms for the local segment.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 144

What information can you get from TCP flags while assessing an attack?

- A. source of the attack
- B. type of attack
- C. target of the attack
- D. priority of the attack traffic

Answer: B ([LEAVE A REPLY](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 145

What is a key design aspect to be considered when designing an IP network that will be carrying real-time VoIP traffic?

- A. Minimizing total unidirectional end-to-end delay to 150-500 ms
- B. Minimizing total bidirectional end-to-end delay to 0-50 ms
- C. Minimizing total unidirectional end-to-end delay to 0-150 ms
- D. Minimizing total bidirectional end-to-end delay to 0-150 ms

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 146

Which two practices should you implement to increase SNMPv1 security? (Choose two.)

- A. Use SNMP encryption for transport confidentiality.

- B.** Use ACLs to allow only specific IP addresses to poll SNMP.
- C.** Use a combination of alphanumeric characters for the community strings.
- D.** Restrict access to the specific SNMP engine IDs in use.

Answer: B,C ([LEAVE A REPLY](#))

NEW QUESTION: 147

Which description of the RPF check in the multicast forwarding traffic is true?

- A.** The unicast address of the multicast packet is checked in the BGP database. If the multicast packet arrived from the interface that matches with the interface to reach BGP peer that advertised the multicast prefix, this packet passes the RPF check
- B.** The source address of the multicast packet is checked in the unicast routing table. If the multicast packet arrived from the interface that matches with the interface to reach the source address, this packet passes the RPF check.
- C.** The source address of the multicast packet is checked in the unicast routing table. If the multicast packet arrived from the interface that matches with the interface to reach the source address, this packet fails the RPF check
- D.** The destination address of the multicast packet is checked in the BGP database. If the multicast packet arrived from the interface that mate with the interface to reach BGP peer that advertised the mutlicast prefix, this packet fails the RPF check.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 148



Refer to the exhibit. As part of a redesign project you must predict multicast behavior. What happens to the multicast traffic received on the shared tree (*,G), if it is received on the LHR interface indicated?

- A. It is dropped due to an unsuccessful RPF check against the multicast receiver.
- B. It is switched given that no RPF check is performed.
- C. It is switched due to a successful RPF check against the routing table.
- D. It is dropped due to an unsuccessful RPF check against the multicast source.

Answer: B (LEAVE A REPLY)

NEW QUESTION: 149

Which two options are reasons for designing a large OSPF network with multiple areas connected to the backbone? (Choose two.)

- A. Reduce the number of routes within an area
- B. Route tagging capability
- C. Simplify logical topology
- D. Enhance failure detection
- E. Reduce SPF algorithm runs.

Answer: D,E (LEAVE A REPLY)

Section: Layer 3 ControlPlane

Explanation/Reference:

NEW QUESTION: 150

ABC Corporation wants to minimize the risk of users plugging unauthorized switches and hubs into the network. Which two features can be used on the LAN access ports to support this design requirement?

(Choose two.)

- A. port security
- B. BPDU guard
- C. edge port
- D. bridge assurance
- E. loop guard
- F. root guard

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 151

Which two statements about QoS marking are true? (Choose two.)

- A. Class-based marking occurs after packet classification
- B. MPLS EXP and DSCP are Layer 2 marking fields
- C. QoS marking establishes a trust boundary that scheduling tools later depend on
- D. Shaping is one of the ways that packets can be remarked
- E. 802.1Q/p CoS bits and IP Precedence are Layer 3 marking fields

Answer: A,C ([LEAVE A REPLY](#))

Section: Evolving Technologies

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NEW QUESTION: 152

Which design consideration is valid when you contrast fabricPath and trill?

- A. FabricPath permits active-active mode, but TRILL supports only active-standby mode.
- B. FabricPath uses IS-IS, but TRILL uses VxLAN
- C. FabricPath Permits ECMP, but TRILL does not
- D. FabricPath permits active-active FHRP and TRILL

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 153

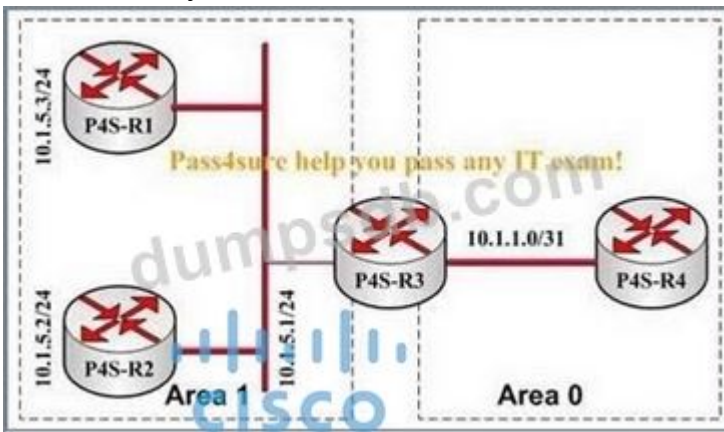
A data center design requires monitoring of their business critical voice and video services accessed by remote locations. Which two items are applicable? (Choose two)

- A. The applications being monitored must be assigned unique DSCP values
- B. The reporting data must be assigned to a QoS profile to ensure accurate statistics
- C. The applications being monitored must be assigned a unique CoS value
- D. If multiple applications share the same the same DSCP or CoS values, IPFIX can be utilized
- E. If multiple applications share the same DSCP or CoS values, NBAR can be utilized
- F. The applications being monitored must be assigned a unique QoS profile

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 154

In this network presented in the following exhibit, configuring all routers to run OSPF on all interfaces. If you examine the OSPF database on P4S-R4, in which LSA will you find 10.1.5.0/24?



- A. 10.1.5.0/24 is in a router (type 1) LSA generated by P4S-R3.
- B. 10.1.5.0/24 is in a summary (type 3) LSA originated by P4S-R3.
- C. 10.1.5.0/24 is in a network (type 2) LSA originated by P4S-R3.
- D. 10.1.5.0/24 is not in any LSA in the OSPF database at P4S-R4, because P4S-R4 and P4S-R3 are in different areas.

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 155

Senior management wants you to evaluate the risks to your network of offering VPWS, VPLS, GRE, or other tunneling services to your fiber-connected client base. Clients indicate that they prefer to use Layer 2 switches as CEs. Which two tunneling services expose your network to minimal risk and meet the clients' needs, including separation between providers and customer networks?

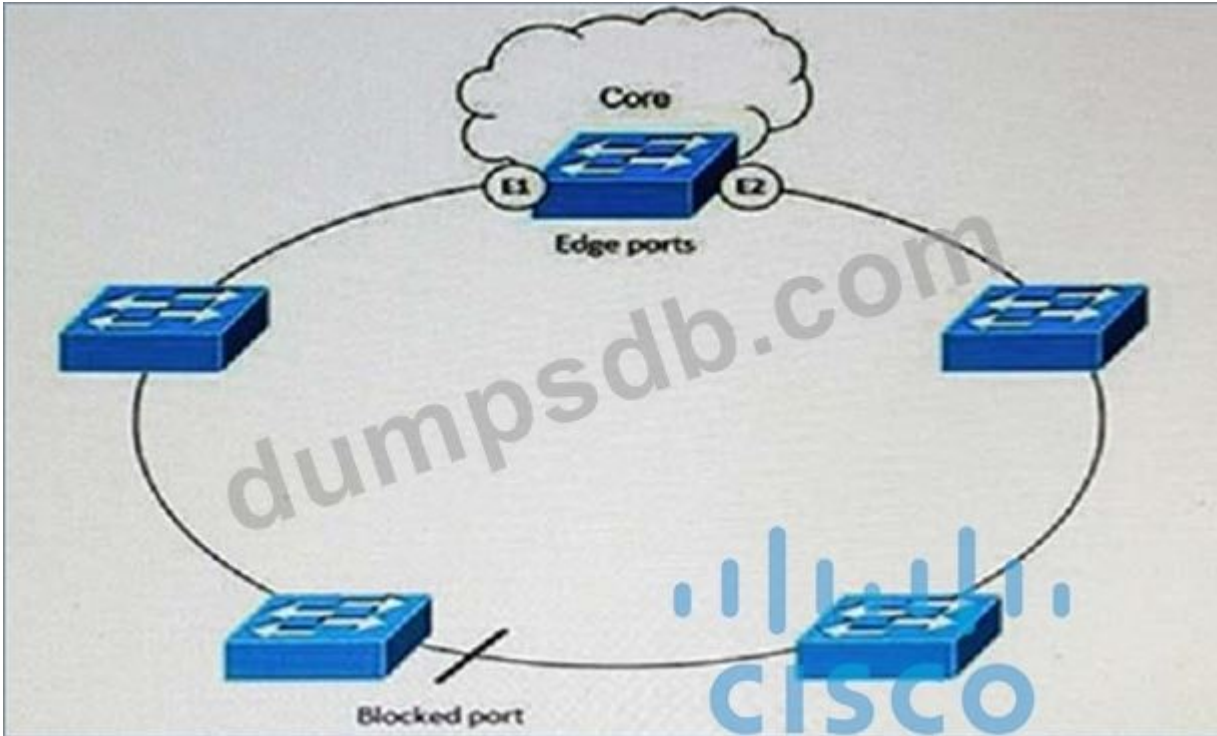
(Choose two.)

- A. 802.1Q
- B. GRE

- C. VPWS
- D. QinQ
- E. VPLS

Answer: C,D ([LEAVE A REPLY](#))

NEW QUESTION: 156



Refer to the exhibit. As the new network designer for a manufacturing company, you are designing this resilient Ethernet ring for the plant Ethernet network that is connected to the core, which does not use STP.

Both edge ports are on the same switch in a ring segment. There is connectivity between the edge ports throughout the segment, so you create a redundant connection between any two switches in the ring.

Which four options are characteristics of this design? (Choose four.)

- A. If a link fails, then the alternate ports quickly unblock. When the failed link comes back up, a physically blocked port per VLAN is selected with minimal disruption to the network.
- B. If a link fails, then the alternate ports quickly unblock. When the failed link comes back up, a logically blocked port per VLAN is selected with minimal disruption to the network.
- C. If VLAN load balancing is configured, then two ports in the segment control the blocked state of VLANs.
- D. If VLAN load balancing is configured, then one port in the segment controls the blocked state of VLANs.
- E. If all ports in the segment are operational, then one port is in the blocked state for each VLAN.
- F. If one or more ports in a segment are not operational, thereby causing a link failure, then all ports forward traffic on all VLANs to ensure connectivity.

G. If all ports in the segment are operational, then two ports are in the blocked state for each VLAN.

Answer: B,C,E,F (LEAVE A REPLY)

Explanation/Reference:

Explanation:

REP segments have the following characteristics:

If all ports in a segment are operational, one port (referred to as the alternate port) is in the blocked

state for each VLAN. If VLAN load balancing is configured, two ports in the segment control the blocked state of VLANs.

If one or more ports in a segment is not operational, and cause a link failure, all ports forward traffic on

all VLANs to ensure connectivity.

In case of a link failure, alternate ports are unblocked as quickly as possible. When the failed link is up,

a logically blocked port per VLAN is selected with minimal disruption to the network.

References:

NEW QUESTION: 157

In a VPLS design solution, why would you use BGP instead of LDP for signaling?

- A.** There are no full-mesh pseudowires due to the route reflection feature of BG
- B.** BGP supports VPLS interworking
- C.** MAC address learning scales better through BGP
- D.** Pseudowire configuration overhead is reduced

Answer: D (LEAVE A REPLY)

NEW QUESTION: 158

For the following options, which deployment can provide the least amount of downtime and also allow for dual active-active hubs?

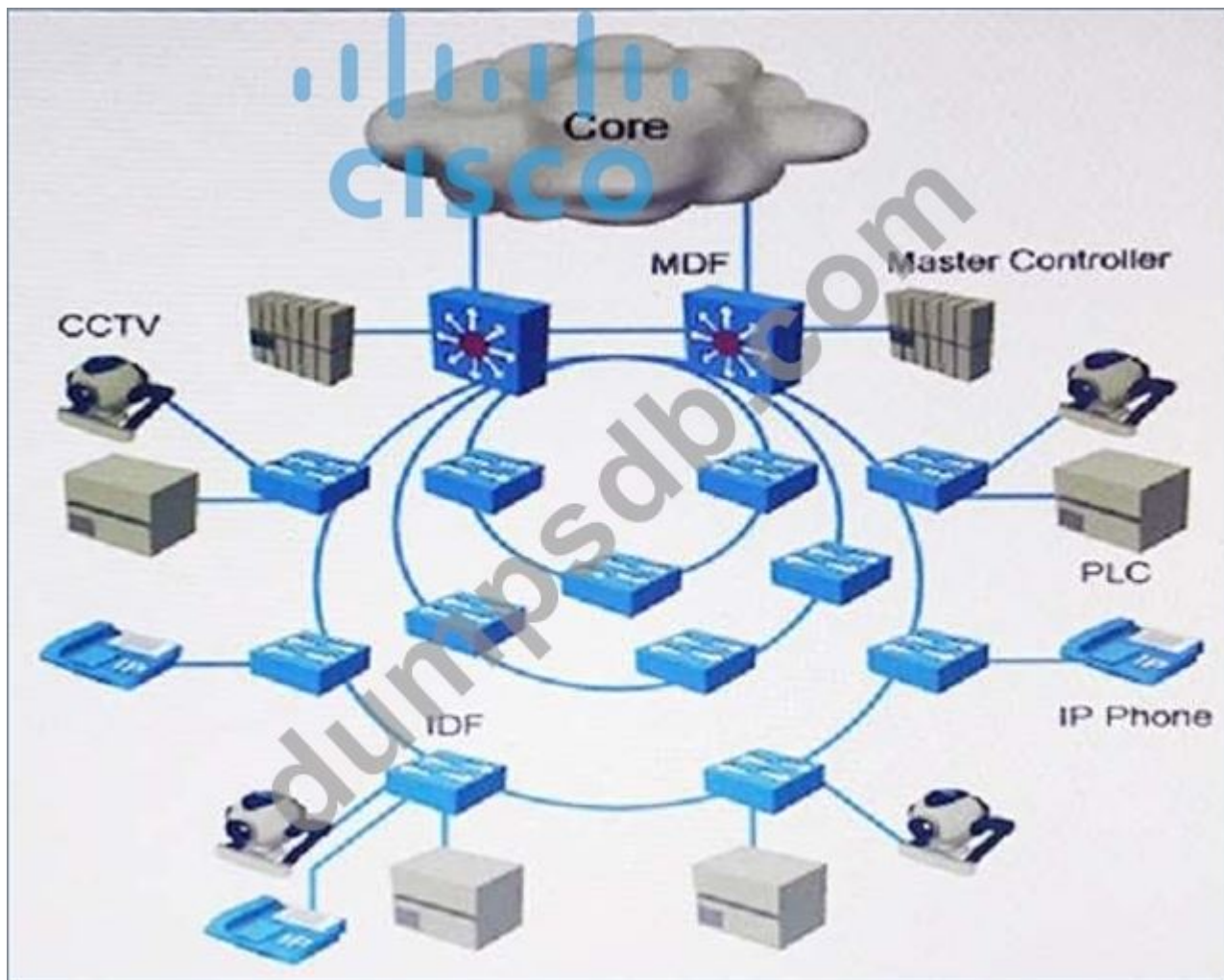
- A.** dynamic VPN tunnels
- B.** stateful IPsec failover tied to an HSRP address on dual hubs
- C.** GRE tunnels from spokes to dual hubs
- D.** stateful IPsec failover with dead peer detection across dual hubs

Answer: C (LEAVE A REPLY)

Section: (none)

Explanation/Reference:

NEW QUESTION: 159



Refer to the exhibit. This smart city has decided to deploy a converged network for video surveillance and applications for utility services. These new applications are delay-sensitive and require strict convergence times of less than 50 milliseconds. The network is expected to have up to 50 intermediate distribution frames per ring.

Which protocol provides less than 50 milliseconds convergence?

- A. G8032
- B. STP
- C. G 8031
- D. RSTP

Answer: ([SHOW ANSWER](#))

Section: Layer 2 Control Plane

Explanation/Reference:

NEW QUESTION: 160

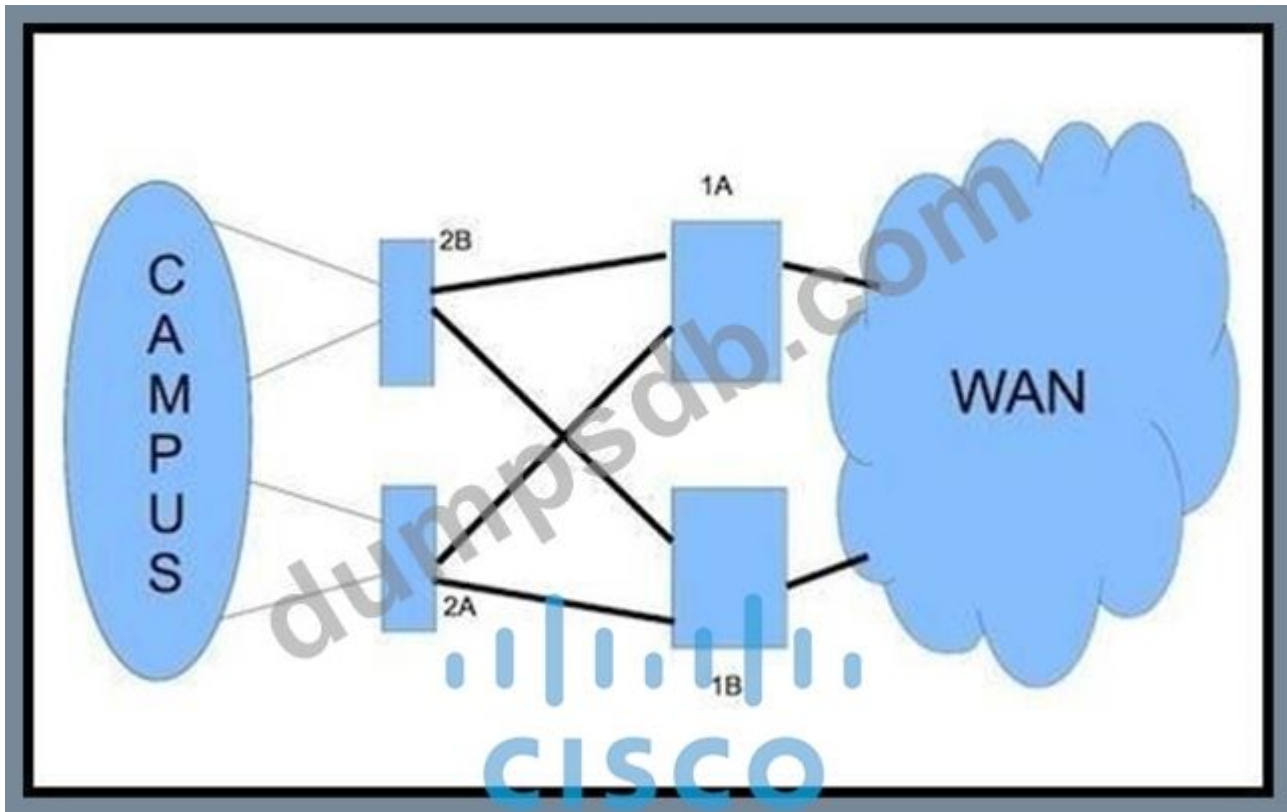
What are two benefits of following a structured hierarchical and modular design? (Choose two.)

- A. Each component can support multiple roles based on the requirements.
- B. Each component can be managed independently based on its role.
- C. Each component can be designed independently for its role.
- D. Each component can be funded by different organizations based on its role.
- E. Each component can provide redundancy for applications and services.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 161

Refer to the exhibit.



How would you adjust the design to improve convergence on the network?

- A. Use BGP to connect the sites over the WAN.
- B. Enable SSO-NSF on routers 1A and 1B.
- C. Use an IP SLA between the end stations to detect path failures.
- D. Add an intra-POP link between routers 1A and 1B, and enable IP LFA FRR.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 162

You are the Cisco Network Designer in domain.com. In your company site, a NAS is both physically and logically in the traffic path. The NAS identifies clients solely based on their MAC addresses. In which access mode has this NAS been configured to operate?

- A. Layer 2 mode
- B. Layer 2 Edge mode
- C. Layer 3 mode
- D. Layer 3 In-Band mode

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 163

A certain service provider network includes IPsec tunnels between PE router loopbacks and dual-homed PE routers. The service provider is using OSPF to carry infrastructure routes and using BGP to carry tunnel endpoints.

What could the service provider do to provide fast convergence in case of a link failure in its network?

- A. configure a full mesh of traffic engineering among PE routers
- B. tune BGP on all routers
- C. tune OSPF on all routers
- D. carry IPsec tunnels in VPLS among PE routers
- E. carry IPsec tunnels in L2TPv3 among PE routers
- F. carry IPsec tunnels in GRE among PE routers

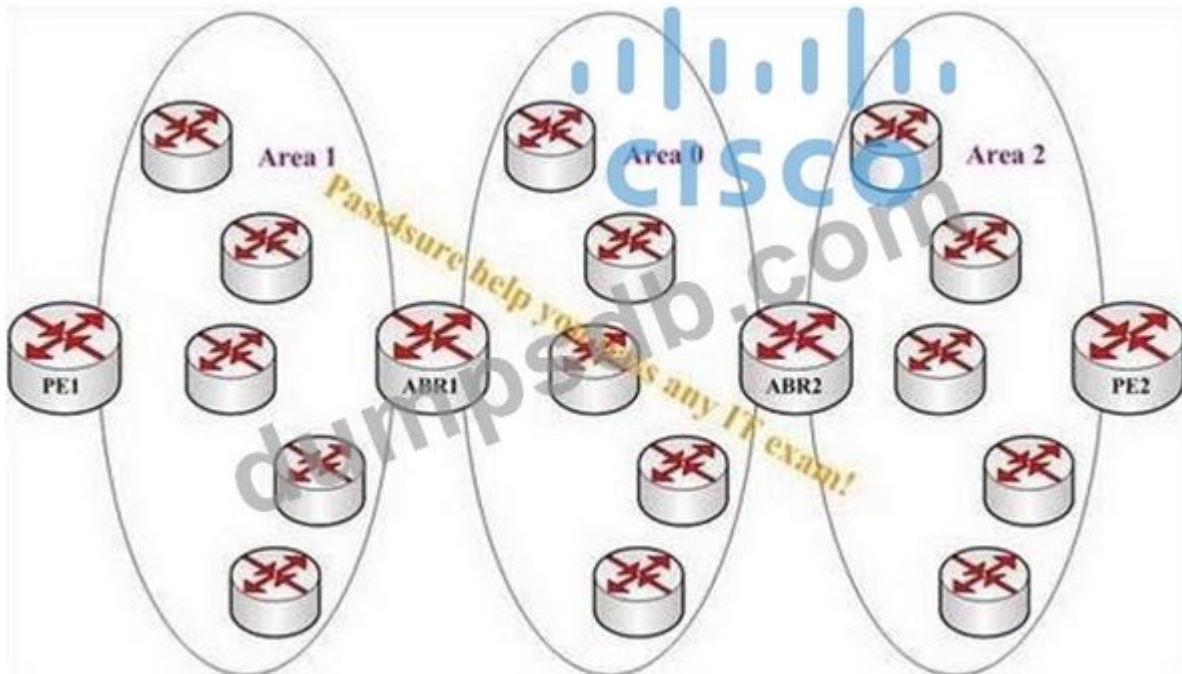
Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 164

Study the following exhibit carefully. A service provider with a multi-area OSPF environment would like to deploy MPLS TE tunnels among PE routers across area boundaries. Configure the LSPs with bandwidth constraints and explicit loose route hops as indicated by the arrows in the following path:

PE1 -> ABR1 -> ABR2 -> PE2

Which two items identify devices that will execute constraint-based SPF in order to set up LSP from PE1 to PE2? (Choose two.)



- A. PE1
- B. all routers in Area 1
- C. all ABRs
- D. all routers in Area 2

Answer: A,C ([LEAVE A REPLY](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 165

As service provider you must support a Layer 2 virtualization protocol that does not include the use of label switching . which technology meets this design requirement ?

- A. QinQ
- B. 802.3ad
- C. VRF-Lite
- D. VPLS

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 166

When designing a Source Specific Multicast solution, what must you consider?

- A. Embedded RP can be used for RP discovery
- B. Initial multicast traffic will flow over the RPT
- C. The IANA assigned range is 232.0.0.0/8
- D. It lacks support for URL Rendezvous Directly

Answer: C ([LEAVE A REPLY](#))

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NEW QUESTION: 167

Which two statements about the various types or DevOps tools are true? (Choose two)

- A. Puppet requires the installation of a master (server) and agents (clients) architecture for configuring systems.
- B. Chef and Puppet are much more attuned to the needs of system administrators.
- C. Ansible does not require agent node installation and uses SSH for performing all tasks.
- D. Salt cannot communicate with clients through general SSH, it use minions client agents only.
- E. Puppet and Chef are written in Python, Python skills are a must to operate these two.

Answer: A,C ([LEAVE A REPLY](#))

NEW QUESTION: 168

Cyclic congestion spikes are causing your Telnet users to experience delays. Traffic analysis shows minimal use of UDP. Which technology can you deploy to mitigate the problem?

- A. Weighted RED
- B. Class Based Weighted Fair Queuing
- C. Deficit Round Robin
- D. Committed Access Rate

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 169

A customer with a dedicated Frame Relay network is planning to move its circuits onto a service provider MPLS network. Instead of moving to Ethernet access links right away, the customer wants to tunnel the Frame Relay information across the MPLS network using AToM pseudowire. How is QoS information transmitted across an AToM pseudowire?

- A. QoS information is translated into the MPLS EXP bits in the MPLS header
- B. QoS information is carried in a control word that is attached to the MPLS frame
- C. QoS information is preserved in the Frame Relay header and encapsulated into the pseudowire frame
- D. QoS information cannot be transported through a pseudowire and is dropped

Answer: B ([LEAVE A REPLY](#))

Section: Evolving Technologies

NEW QUESTION: 170

An IBGP mesh design is being scoped, and in the discussions, one of the design engineers proposes the use of route reflectors. Which limitation is valid when using route reflectors in this design?

- A. The configuration complexity on the routers will be increased.
- B. Route reflectors will limit the total number of routes in the topology.
- C. Multipath information is difficult to propagate in a route reflector topology.
- D. Route reflectors will cause an opportunity to create routing loops.

Answer: C ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 171

Drag and Drop Questions

A service provider offers Layer 2 multipoint services to their customers. Drag the protocol on the left to the target on the right to indicate the protocols that can be used to signal pseudowires.

A service provider offers Layer 2 multipoint services to their customers. Drag the protocol on the left to the target on the right to indicate the protocol pseudowires.

LDP	Protocols
RSVP	
BGP	
L2TPv3	

Answer:

Protocols
LDP
BGP

NEW QUESTION: 172

You have been asked to design a high-density wireless network for a university campus. Which three principles would you apply in order to maximize the wireless network capacity? (Choose three.)

- A. Increase the number of SSIDs to load-balance the client traffic.
- B. Use directional antennas to achieve better sector separation channel reuse.
- C. Choose a high minimum data rate to reduce the duty cycle.
- D. Enable 802.11ag channel bonding on both 2.4 GHz and 5 GHz to increase the maximum aggregated cell throughput.
- E. Implement a four-channel design on 2.4 GHz to increase the number of available channels.
- F. Make use of the 5-GHz band to reduce the spectrum utilization on 2.4 GHz when dual-band clients are used.

Answer: B,C,F (LEAVE A REPLY)

NEW QUESTION: 173

When designing a network, which two security features should be added to the design to protect hosts from potential IPv6 neighbor discovery denial of service attacks at the access layer?

(Choose two.)

- A. SEND
- B. RA Guard
- C. IKEv2
- D. IPsec
- E. DMVPNv6

27

Answer: A,B (LEAVE A REPLY)

Explanation/Reference:

Explanation:

NEW QUESTION: 174

Which relationship between iBGP and the underlying physical topology is true?

- A. iBGP can work only on a ring network topology with a link state protocol like OSPF or IS IS
- B. iBGP full mesh requirement does not dictate any specific network topology
- C. iBGP does not work on a ring network topology even with an underlying IGP
- D. iBGP full mesh requires an underlying My meshed network topology

Answer: B (LEAVE A REPLY)

<http://nms.lcs.mit.edu/papers/bgpsep-infocom06.pdf>

NEW QUESTION: 175

You are the lead IP network designer for a new service provider called XYZ, and you are working closely with the CTO to finalize design requirements. The CTO informs you that they want to transport IPv6 prefixes of customers through the XYZ network at this time; however, they need your advice on whether to deploy dual stack or MPLS 6PE/6VPE. Which two options do you recommend? (Choose two.)

- A. Build a dual-stack network. Enable BGP in the core. Redistribute EBGp routes into IGP.
- B. Prepare the dual-stack infrastructure from the beginning, even if BGP prefixes would have to be announced via IPv4 in case you decide to maintain the BGP-free core.
- C. Use MPLS 6VPE to simplify the operation and keep a BGP-free core. When the LDPv6 becomes available, change to 4PE or keep the core using both IPv4 and IPv6. The main goal is to keep the core BGP-free and ensure that IPv4, IPv6, VPNv4, and VPNv6 are all label-switched.
- D. Use MPLS 6PE to simplify the operation and keep a BGP-free core. When the LDPv6 becomes available, change to 4PE or keep the core using both IPv4 and IPv6. The main goal is to keep the core BGP-free and ensure that IPv4, IPv6, VPNv4, and VPNv6 are all label-switched.

Answer: (SHOW ANSWER)

NEW QUESTION: 176

You are designing a fabricpath network that connects to a spine-and-leaf topology using Layer 2 IS-IS as the IGP. The solution must be able to detect changes in the network topology and calculate loop-free paths to other nodes in the network that are being used as top-of-rack switches, which three characteristics of this fabricpath design solution are true? (Choose three)

- A. The FabricPath domain must be replaced because it because it does not run STP.
Variation
- B. To use the basic FabricPath functionality, you must configure IS-IS on every interface between the leaf-and-spine switches
- C. Each switch computes its shortest path to every other switch in the network using the SPF algorithm.
- D. FabricPath Layer 2 IS-IS uses the standard IS-IS functionality to populate up to 16 for a given destination switch.
- E. The switch operating system uses multiple equal-cost parallel links that provide ECMP.

F. The interfaces in FabricPath network run only the FabricPath Layer 2 IS-IS protocol with FTags disabled.

Answer: C,D,E (LEAVE A REPLY)

NEW QUESTION: 177

A multicast network is using bidirectional PIM. Which two actions, when combined, can achieve high availability so that two RPs within the same network can act in a redundant manner? (Choose two.)

- A. Manipulate the multicast routing table by creating static mroutes to the two RPs.
- B. Advertise routes for the two RPs with the same subnet mask through the unicast routing protocol.
- C. Use a phantom RP address.
- D. Manipulate the administrative distance of the unicast routes to the two RPs.
- E. Use Anycast RP based on MSDP peering between the two RPs.
- F. Advertise routes for the two RPs with different subnet mask lengths through the unicast routing protocol.

Answer: C,F (LEAVE A REPLY)

NEW QUESTION: 178

A customer is using a service provider to provide a WAN backbone for a 30-site network. In establishing the network, the customer must work within these constraints:

The customer has a self-managed MPLS backbone.

The VPLS WAN backbone of the service provider does not support PIM snooping.

Multicast VPN must be used for multicast support inside some VRFs.

What can the customer do so that multicast traffic is NOT flooded to all sites?

- A. Configure static GRE tunnels and run the MPLS and multicast VPN inside these GRE tunnels.
- B. Use Label Switched Multicast for the multicast transport.
- C. Use PIM-SSM as the multicast routing protocol with IETF Rosen Draft multicast VPN.
- D. Configure a static mapping between multicast addresses and MAC addresses.
- E. Use GET VPN to encrypt the multicast packets inside the WAN.

Answer: A (LEAVE A REPLY)

Explanation/Reference:

good answer.

NEW QUESTION: 179

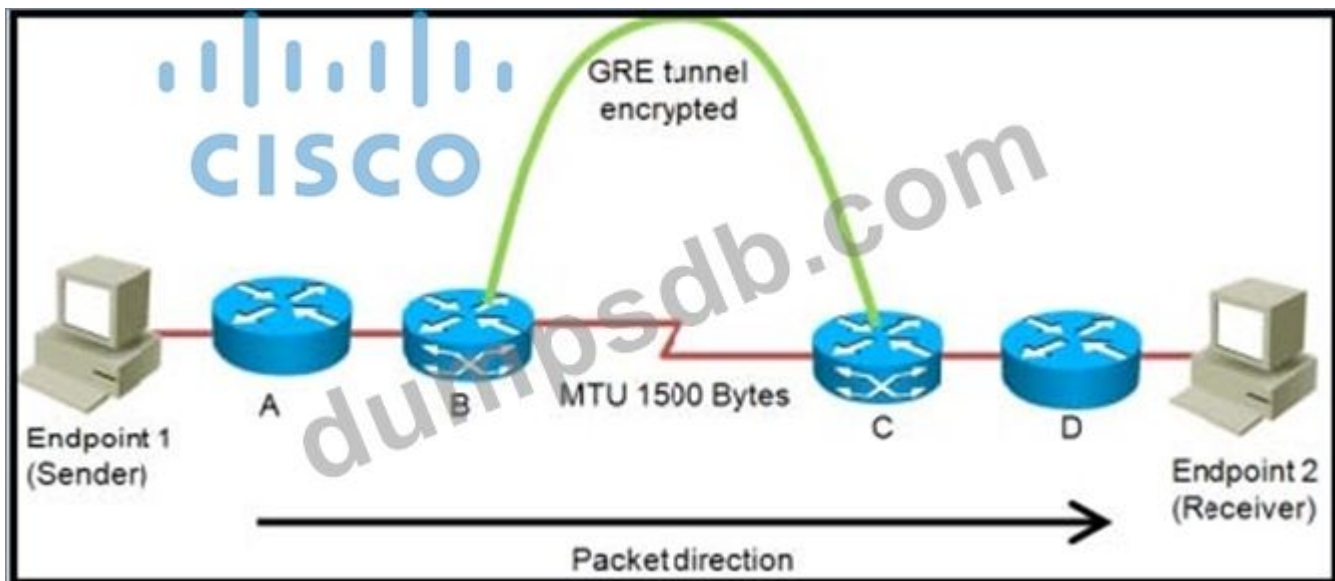
A service provider must provide Internet connectivity to an MPLS Layer 3 VPN customer. Which solution allows this customer to have Internet access?

- A. Implement policy-based routing between PE and CE
- B. Implement a global default route with a next hop in the VRF late on PE
- C. Implement a default route in the VRF with a next hop in the global routing table of PE
- D. Implement destination NAT between the VRF and the global RIB of PE

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 180

Refer to the exhibit.



You are planning the design of an encrypted WAN. IP packets will be transferred over encrypted GRE tunnels between routers B and C.

The packet size is limited to a maximum of 1500 bytes inside the WAN between routers B and C. If endpoint 1 tries to send 1500byte IP packets to endpoint 2, in what three ways will the network design handle the fragmentation in three different possible network configurations? (Choose three.)

- A. When router B fragments packets before the encryption, router C must reassemble these fragmented packets.
- B. When router A fragments packets, endpoint 2 must reassemble these fragmented packets.
- C. When router A fragments packets, router C must reassemble these fragmented packets.
- D. When router B fragments packets after the encryption, the endpoint 2 must reassemble these fragmented packets.
- E. When router B fragments packets before the encryption, endpoint 2 must reassemble these fragmented packets.
- F. When router B fragments packets after the encryption, router C must reassemble these fragmented packets.

Answer: B,E,F ([LEAVE A REPLY](#))

NEW QUESTION: 181

Which option is best suited to maintain Layer 3 separation in a multitenant data center design?

- A. VXLAN
- B. VRF
- C. VDC
- D. VLAN

Answer: B ([LEAVE A REPLY](#))

Section: Layer 3 ControlPlane

Explanation:

References:

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NEW QUESTION: 182

During a corporate merger, a network designer is asked for a solution that will provide connectivity between the two enterprise networks. The solution must have the ability to support video sessions so that the CEO can message merger activities to the employees. The designer decides to consider multicast as a transport with MSDP to provide redundancy. Which transport feature does the network designer need to apply to the interconnecting firewall to ensure that Source-Active messages between the MSDP peers can be sent in both enterprise networks?

- A. multicast over a TCP connection
- B. unicast over a UDP connection
- C. multicast over a UDP connection
- D. unicast over a TCP connection

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 183

Which aspect is a significant disadvantage of containers?

- A. Resource consumption
- B. Security
- C. Time to deploy
- D. Reduced operational overhead
- E. Inefficiency

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 184

DRAG DROP

A small local business recently had an outage after an employee plugged a switch into the corporate network, which caused the traffic pattern in the network to change. You have been tasked to redesign the network so that this does not happen again. From the left side to the right

side, drag the PVRST+ features that should be implemented to prevent the corresponding root cause. Not all sources will be used.

Spanning-tree priority changed from default	Prevents changing the root bridge
DTP	Target 1
VTP set to transparent	Target 2
BPDU Guard	Target 3
PortFast	Prevents advertisement of unwanted VLANs
Root Guard	Target 4

Answer:

Spanning-tree priority changed from default	Prevents changing the root bridge
DTP	Spanning-tree priority changed from default
VTP set to transparent	BPDU Guard
BPDU Guard	Root Guard
PortFast	Prevents advertisement of unwanted VLANs
Root Guard	VTP set to transparent

NEW QUESTION: 185

Which two descriptions of CWDM are true? (Choose two)

- A. uses the 850nm band
- B. Passive CWDM devices require no electrical power
- C. allows up to 32 optical carriers to be multiplexed onto a single fiber
- D. typically used over long distances, but requires optical amplification
- E. shares the same transmission window as DWDM

Answer: B,E ([LEAVE A REPLY](#))

NEW QUESTION: 186

OSPF is implemented over a pseudowire Layer 2 VPN. Which statement about this design implementation is true?

- A. The IP MTU must be the same on both PE devices
- B. The physical interface MTU must be the same between the CE and PE devices
- C. The IP MTU must be the same on both CE devices
- D. The IP MTU must be the same on the CE and PE devices

Answer: C ([LEAVE A REPLY](#))

Section: Evolving Technologies

NEW QUESTION: 187

AS100 and AS200 each have two peering points in different parts of their network. AS100 would like to use one of the links and keep the other link as backup. What should be changed for the design inside AS100 for prefixes received from AS200?

- A. MED
- B. local preference
- C. AS-PATH
- D. weight

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 188

You are a network designer and have been asked to consult with your server operations team to further enhance the security of the network. The operations team provides you with these details about the network:

A pool of servers is accessed by numerous data centers and remote sites. The servers are accessed via a cluster of firewalls. The firewalls are configured properly and are not dropping traffic. The firewalls occasionally cause asymmetric routing of traffic within the server data center. Which technology would you recommend to enhance security by limiting traffic that could originate from a hacker compromising a workstation and redirecting flows at the servers?

- A. Poison certain subnets by adding static routes to Null0 on the server farm core switches.
- B. Unicast Reverse Path Forwarding in strict mode
- C. Access control lists to limit sources of traffic that exits the server-facing interface of the firewall cluster
- D. Unicast Reverse Path Forwarding in loose mode

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 189

What advantage of placing the IS-IS layer 2 flooding domain boundary at the core Layer in a three-layer hierarchical network is true?

- A. The Layer 1 and Layer 2 domains can easily overlap
- B. It reduces the complexity of the Layer 1 domains
- C. The Layer 2 domain is contained and more stable
- D. It can be applied to any kind of topology

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 190

Two medium-sized companies recently merged and would like to share their two campus buildings as soon as possible. Employees should be able to sit and work in either building. If the IP addresses in the networks overlap, which virtualization technology could be deployed quickly to achieve the business objective?

- A. VRF-LITE
- B. MPLS-VPN
- C. L2TPv3
- D. EoMPLS

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 191

Which are two data plane hardening techniques? (Choose two)

- A. Redundant AAA servers
- B. Control Plane Policing
- C. Disable unused services
- D. Infrastructure ACLs
- E. Routing protocol authentication
- F. Warning banners
- G. SNMPv3

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 192

Drag and drop the multicast protocols from the left onto the current design situation on the right.

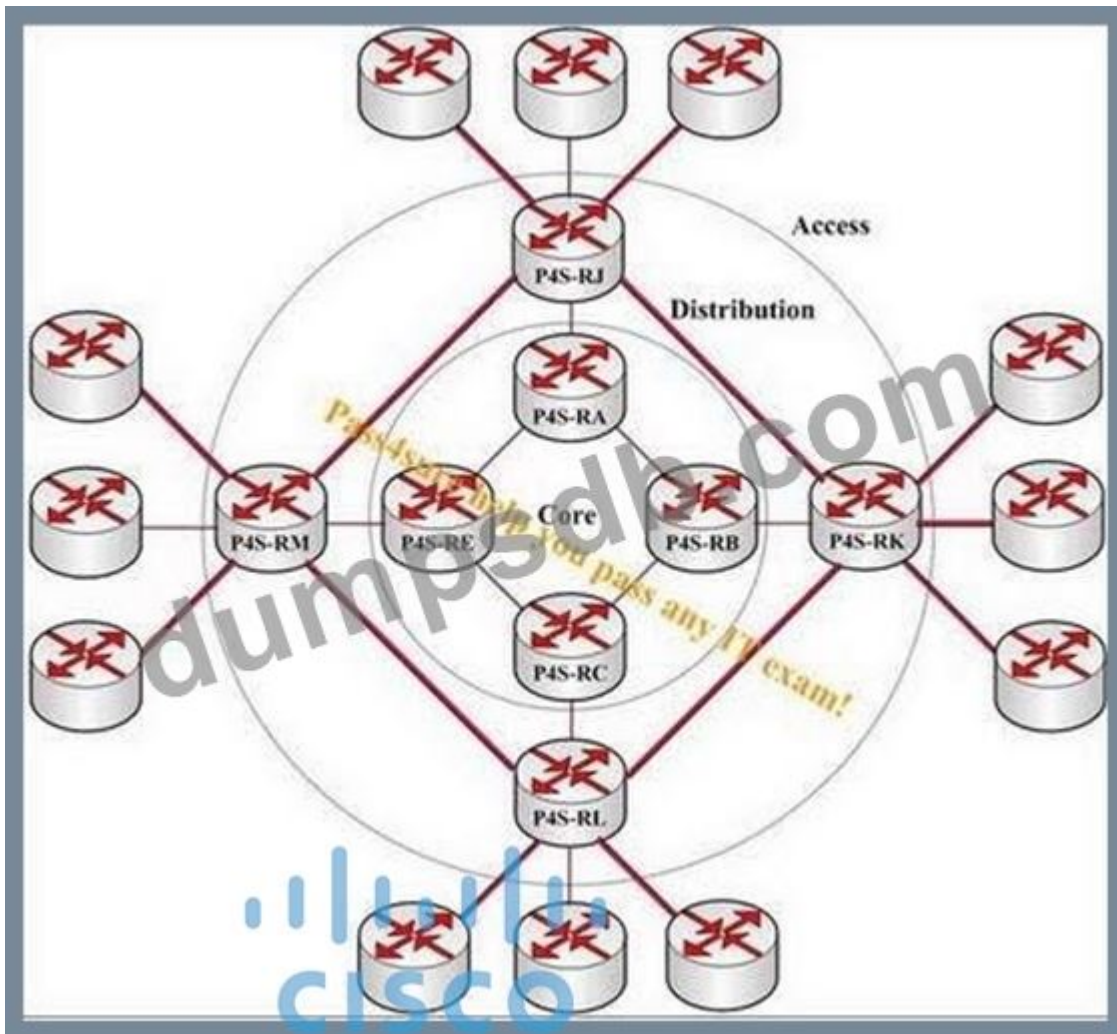


Answer:



NEW QUESTION: 193

Observe the following exhibit carefully. Assume that routers P4S-RJ, P4S-RK, P4S-RL, and P4S-RM are optimally aggregating towards routers P4S-RA, P4S-RB, P4S-RC, and P4S-RE. Which two links will be removed to improve fault isolation?



- A. between P4S-RA and P4S-RB and between P4S-RC and P4S-RE
- B. between P4S-RB and P4S-RK and between P4S-RE and P4S-RM
- C. between P4S-RJ and P4S-RM and between P4S-RK and P4S-RL
- D. between P4S-RA and P4S-RB and between P4S-RB and P4S-RC

Answer: C ([LEAVE A REPLY](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 194

Which two factors can significantly affect the OSPF network convergence time? (Choose two.)

- A. the diameter of the OSPF network
- B. the tuning of OSPF LSA timers
- C. different processor capabilities of devices
- D. the number of OSPF routes

Answer: B,C ([LEAVE A REPLY](#))

NEW QUESTION: 195

Which two components are the responsibility of the customers in a Platform as a Service offering? (Choose two.)

- A. applications
- B. infrastructure connectivity
- C. hardware
- D. data
- E. APIs

Answer: D,E (LEAVE A REPLY)

Section: Evolving Technologies

Explanation/Reference:

NEW QUESTION: 196

A Tier-3 Service Provider is evolving into a Tier-2 Service Provider due to the amount of Enterprise business it is receiving. The network engineers are re-evaluating their IP/MPLS design considerations in order to support duplicate/overlapping IP addressing from their Enterprise customers within each Layer 3 VPN. Which of the following would need to be reviewed to ensure stability in their network?

- A. Assigning unique Route Distinguishers
- B. Assigning unique VRF ID's to each Layer 3 VPN
- C. Assigning unique IP address space for the Enterprise NAT/Firewalls
- D. Assigning unique Route Target ID's

Answer: (SHOW ANSWER)

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NEW QUESTION: 197

How should you compensate for jitter on an IP network so it carries real-time VoIP traffic with acceptable voice transmission quality?

- A. Set up a playout buffer to play back the voice stream.
- B. Change CODEC from G.729 to G.711.
- C. Set up VAD to replace gaps on speech with comfort noise.
- D. Deploy RSVP for dynamic VoIP packet classification.

Answer: A (LEAVE A REPLY)

NEW QUESTION: 198

DRAG DROP

Drag the QoS tools on the left and drop each into its corresponding function on the right.

Policing	Addresses congestion that is due to speed mismatches when CIR is not exceeded.
Marking	Drops traffic to ensure that the committed or offered rate are not exceeded.
Buffering	Allows drops to be minimized based on traffic classification when CIR is exceeded.
WRED	Allows for consistent classification within a DiffServ domain.
Shaping	Avoids congestion via selective traffic dropping within the network.
ECN	Avoids congestion by end hosts reducing their traffic rates when congestion is detected.

Answer:

Drag the QoS tools on the left and drop each into its corresponding function on the right.

Policing	Buffering
Marking	Policing
Buffering	Shaping
WRED	Marking
Shaping	WRED
ECN	ECN

NEW QUESTION: 199

How can jitter be compensated on an IP network that carries real-time VoIP traffic with acceptable voice transmission quality?

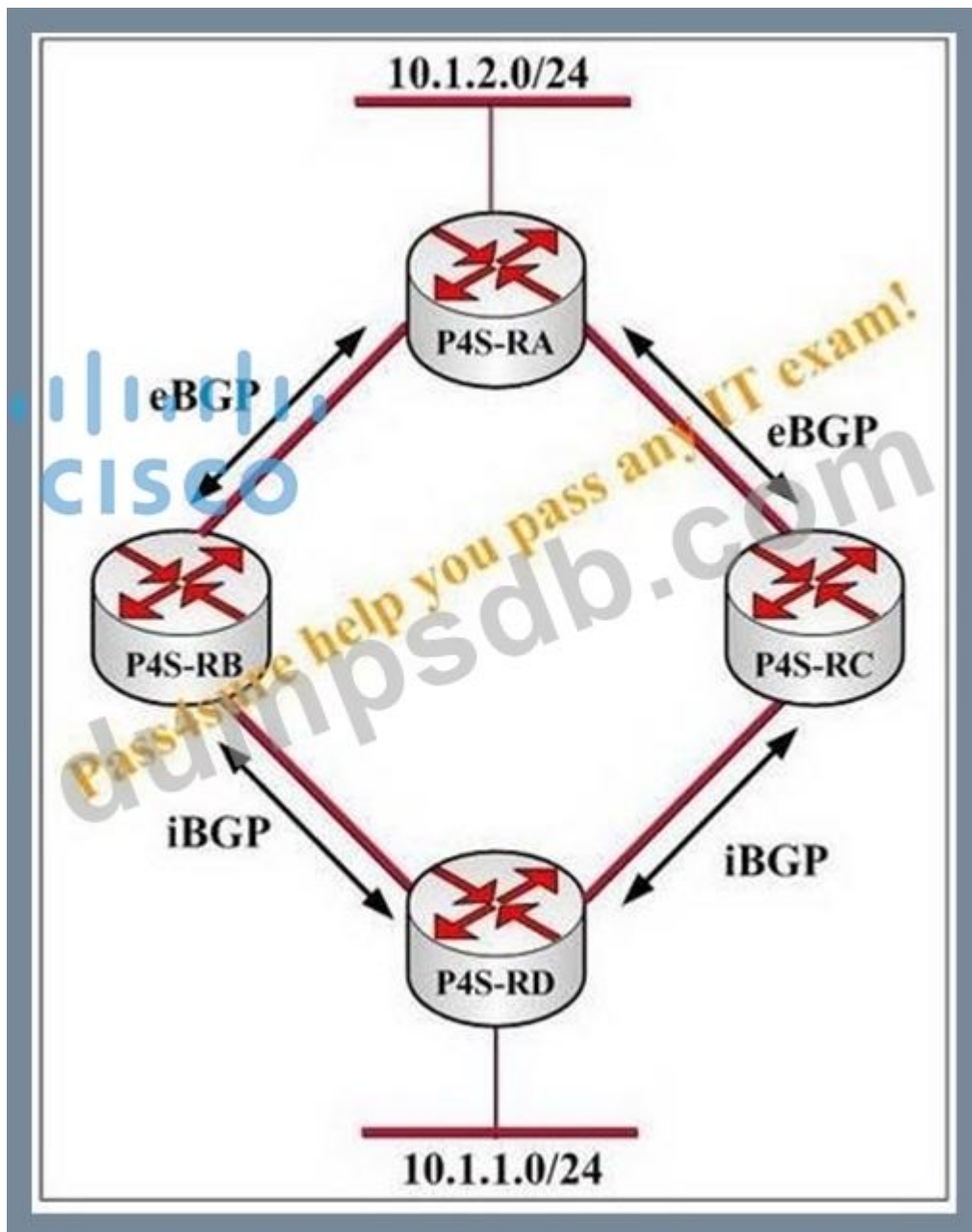
- A. Change CODEC from G.729 to G.711
- B. Set up a playout buffer to play back the voice stream
- C. Deploy RSVP for dynamic VoIP packet classification
- D. Set up VAD to replace gaps on speech with comfort noise

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 200

Study the exhibit carefully. Routers P4S-RA, P4S-RB, P4S-RC, and P4S-RD are all performing OSPF within a single area and have OSPF graceful restart configured and running. 10.1.2.0/24 is being advertised only through BGP and the best path between routers P4S-RC and P4S-RD is through router P4S-RB. Configure BGP graceful restart on routers P4S-RB, P4S-RC, and P4S-RD, but not on router P4S-RA.

What will happen to traffic from 10.1.1.0/24 to 10.1.2.0/24 after router P4S-RB performs a graceful restart?



- A. be tunneled from router P4S-RD to router P4S-RA through router P4S-RC.
- B. continue to flow normally
- C. be dropped at router P4S-RB for a period of time after the graceful restart
- D. switch to the path through router P4S-RC without interruption

Answer: C (LEAVE A REPLY)

Section: (none)

Explanation/Reference:

NEW QUESTION: 201

Which option is a critical mechanism to optimize convergence speed when using MPLS FRR?

- A. shared risk link groups
- B. IGP timers
- C. bandwidth reservation

D. down detection

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 202

When designing a network, which two security features should be added to the design to protect hosts from potential IPv6 neighbor discovery denial of service attacks at the access layer?

(Choose two.)

- A. IKEv2
- B. DMVPNv6
- C. IPsec
- D. RA Guard
- E. SEND

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 203

A designer is working with a large bank to redesign their network. The designer wants to minimize complaints regarding slow application response times across the WAN. It is suspected that currently traffic is not being classified and marked correctly somewhere in the network. Which tool should the designer recommend to validate quality of service mappings and use?

- A. SNMP
- B. IPFIX
- C. IP SLA
- D. protocol analyzer
- E. NBAR

Answer: B ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 204

You are tasked with implementing a 1000-phone remote access solution, where phones will traverse a WAN edge router. Assuming all of the following features are supported in a hardware-assisted manner, which of the following will have the most detrimental impact on the delay of the packet?

- A. encryption
- B. stateful firewall
- C. MPLS encapsulation
- D. GRE encapsulation

Answer: A ([LEAVE A REPLY](#))

Explanation/Reference:

corrected.

NEW QUESTION: 205

What are two design advantages to using virtual port channel? (Choose two.)

- A. enhanced system availability through multiple systems
- B. reduced Spanning Tree Protocol convergence time
- C. loop management without use of Spanning Tree Protocol
- D. ability to use Spanning Tree Protocol blocked ports to forward traffic
- E. enhanced ability to recover from Spanning Tree Protocol changes

Answer: (SHOW ANSWER)

Explanation/Reference:

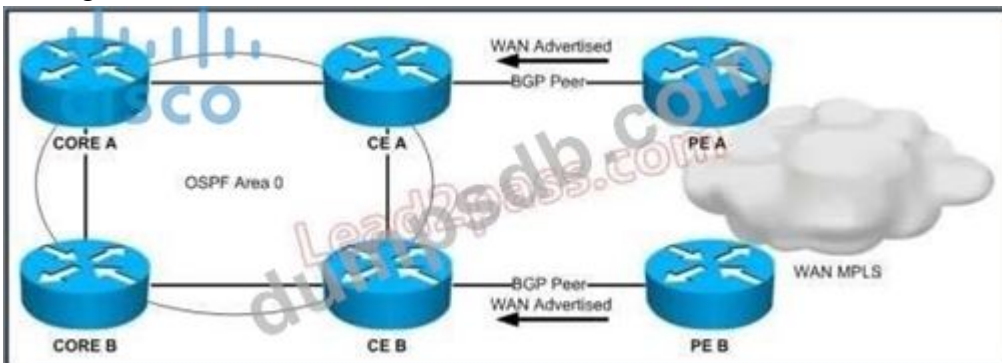
Explanation:

NEW QUESTION: 206

Refer to the exhibit. The design is being proposed for use within the network. The CE devices are

OSPF graceful restart-capable, and the core devices are OSPF graceful restart-aware. The WAN advertisements received from BGP are redistributed into OSPF. A forwarding supervisor failure event takes place on CE A.

During this event, how will the routes learned from the WAN be seen on the core devices?



- A. via CE A
- B. via CE B
- C. no WAN routes will be accessible
- D. via CE A and CE B

Answer: (SHOW ANSWER)

NEW QUESTION: 207

An enterprise campus is adopting a network virtualization design solution with these requirements:

- * It must include the ability to virtualize the data plane and control plane by using VLANs and VRFs.
- * It must maintain an end-to-end logical path transport separation across the network.
- * Resources available grouped at the access edge.

In which two primary models can this network virtualization design be categorized? (Choose two.)

- A. session isolation

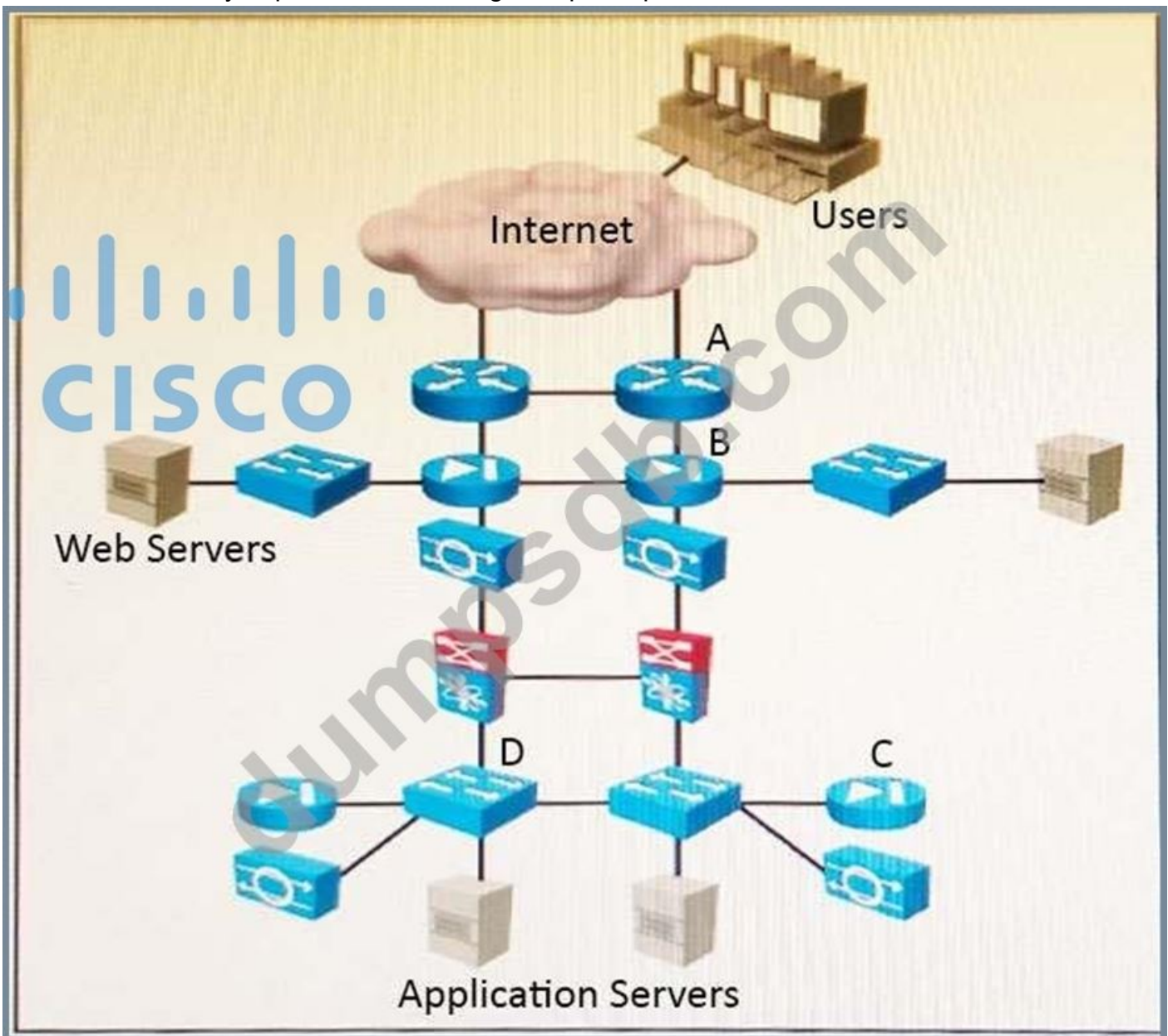
- B. path isolation
- C. group virtualization
- D. services virtualization
- E. edge isolation

Answer: B,D (LEAVE A REPLY)

Section: Evolving Technologies

NEW QUESTION: 208

Refer to the exhibit. The operations team has identified that some of the multi-tiered e-commerce applications have slow performance, due to illegitimate inbound traffic from the Internet. On which network device do you place traffic filtering to improve performance?



- A. A
- B. B
- C. C
- D. D

Answer: B (LEAVE A REPLY)

Section: Evolving Technologies

NEW QUESTION: 209

What are two benefits of following a structured hierarchical and modular design? (Choose two.)

- A. Each component can be designed independently for its role.
- B. Each component can be managed independently based on its role.
- C. Each component can be funded by different organizations based on its role.
- D. Each component can support multiple roles based on the requirements.
- E. Each component can provide redundancy for applications and services.

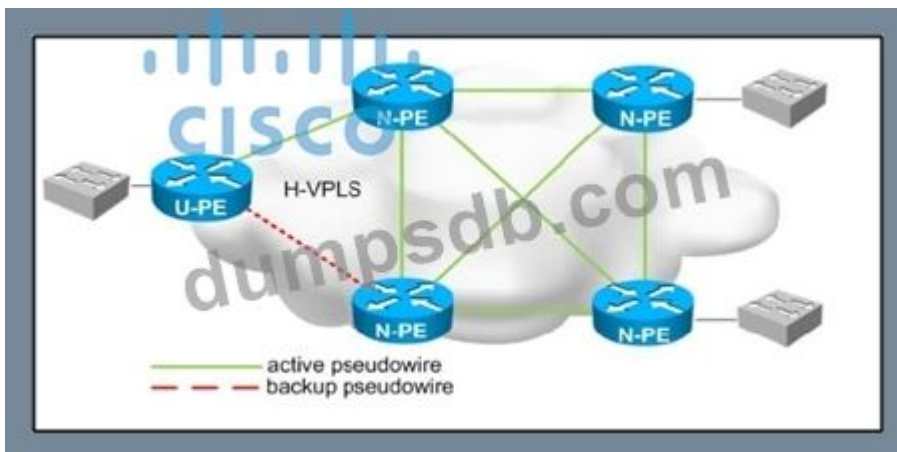
Answer: A,B (LEAVE A REPLY)

Explanation/Reference:

Explanation:

NEW QUESTION: 210

Refer to the exhibit.



You are designing a loop-free hierarchical VPLS service. Which two design considerations should be implemented for the pseudowires between the N-PE and U-PE routers? (Choose two.)

- A. Disable MAC learning on the U-PE route.
- B. Disable split horizon toward the N-PE routers.
- C. Enable split horizon toward the N-PE routers.
- D. Disable MAC learning on the N-PE routers.
- E. Enable split horizon toward the U-PE router.
- F. Disable split horizon toward the U-PE router.

Answer: (SHOW ANSWER)

NEW QUESTION: 211

Which two functions are performed at the distribution layer of the three-layer hierarchical network design model? (Choose two).

- A. Fault isolation
- B. Load balancing

- C. Reliability
- D. QoS classification and marking boundary
- E. Fast transport

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 212

Virtual private LAN service (VPLS) is a way to provide Ethernet based multipoint to multipoint communication over IP/MPLS networks. Which three drawbacks are of VPLS? (Choose three.)

- A. Direct-attached VPLS requires a full mesh of pseudowires.
- B. VPLS cannot support IP bridging (as defined in the VPLS standard).
- C. MAC scalability may be problematic, since customer MACs will be visible on the service provider network.
- D. VPLS requires a large amount of multicast and broadcast replication.

Answer: A,C,D ([LEAVE A REPLY](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 213

Which two pain points are the most common for container technology adoption? (Choose two)

- A. cost
- B. compliance
- C. container deployment
- D. security
- E. skilled staff
- F. performance

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 214

What is the definition of the ITIL framework?

- A. a five-volume framework for service management that covers design, transition, and delivery of service, and from which the ISO 20000 was developed

- B. a series of tools for process improvement that uses statistical methods to reduce defects in processes and manufacturing
- C. an ISO framework that establishes a model for network management and contains guidelines for managing objects, the management database, and the application entity
- D. a framework for enterprise IP Address Management (IPAM) based on the IANA trusted IP lease allocation scheme
- E. a framework for enterprise architecture that provides a comprehensive approach for designing, planning, implementing, and governing an enterprise information architecture

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 215

Which two techniques are used in a network design to slow down the distribution of topology information caused by a rapidly flapping link? (Choose two.)

- A. Bidirectional Forwarding Detection
- B. LSA throttling
- C. SPF throttling
- D. link-state partial SPF
- E. link-state incremental SPF
- F. IP event dampening

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 216

A Service Provider is designing a solution for a managed CE service to a number of local customers using a single CE platform and wants to have logical separation on the CE platform using Virtual Routing and Forwarding (VRF) based on IP address ranges or packet length. Which is the most scalable solution to provide this type of VRF Selection process on the CE edge device?

- A. OSPF per VRF Instance
- B. Multi-Protocol BGP
- C. Static Routes for Route Leaking
- D. Policy Based Routing

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 217

Which of the following design options meet the requirement to provide IPv6 interdomain multicast?

- A. PIM SSM
- B. Auto-RP
- C. PIM dense mode
- D. MSDP

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 218

A data center provider has designed a network using these requirements:

- Two data center sites are connected to the public Internet.
- Both data centers are connected to different Internet providers.
- Both data centers are also directly connected with a private connection for the internal traffic, and public Internet traffic can also be routed at this direct connection.
- The data center provider has only one /19 public IP address block.

Under normal conditions, Internet traffic should be routed directly to the data center where the services are located. When one Internet connection fails, the complete traffic for both data centers should be routed by using the remaining Internet connection. In which two ways can this routing be achieved? (Choose two.)

- A.** One /20 block is used for the first data center and the second /20 block is used for the second data center. The /20 block from the local data center is sent out with a low BGP local preference and the /20 block from the remote data center is sent out with a higher BGP local preference at both sites.
- B.** BGP will always load-balance the traffic to both data center sites.
- C.** One /20 block is used for the first data center and the second /20 block is used for the second data center. The /20 block from the local data center is sent out with a low BGP weight and the /20 block from the remote data center is sent out with a higher BGP weight at both sites.
- D.** One /20 block is used for the first data center and the second /20 block is used for the second data center. Each /20 block is only sent out locally. The /19 block is sent out at both Internet connections for the backup case to reroute the traffic through the remaining Internet connection.
- E.** The data center provider must have an additional public IP address block for this routing.
- F.** One /20 block is used for the first data center and the second /20 block is used for the second data center. The /20 block from the local data center is sent out without path prepending and the /20 block from the remote data center is sent out with path prepending at both sites.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 219

The enterprise customer ABC Corp will deploy a centralized unified communications application to provide voice, and instant messaging to their branch offices. Some of the branch offices are located in remote locations and are connected via a 1.5 Mb/s Layer 3 VPN connection. Which two ways are the most cost-effective to ensure that this new application is implemented properly?

(Choose two)

- A.** Set LFI on the WAN connections to interleave the small voice packets with the large data packets
- B.** Set voice activity detection to avoid sending packets when the conversations is silent
- C.** Use a low bitrate codec such as G 711
- D.** Use a low bitrate codec such as G 729

E. Set WAN optimization on the CE router to compress the voice packets for improved bandwidth utilization and performance

F. Enable VRF-Lite on the CE router to create a separate voice VRF

Answer: B,D ([LEAVE A REPLY](#))

NEW QUESTION: 220

You have been asked to establish a design that will allow your company to migrate from a WAN service to a Layer 3 VPN service. In your design, you are keeping some WAN links between critical sites as a backup for this service. You plan to use OSPF as your IGP and BGP for the PE-CE protocol. When the Layer 3 VPN service is available, how will you prevent transit traffic over the backup links?

A. Redistribute routes at the CE as external type 1.

B. Redistribute routes at the CE as external type 2.

C. Use conditional advertisement only when the Layer 3 service is down.

D. Manually turn off the backdoor link when the Layer 3 service is up.

Answer: D ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 221

When designing a WAN that will be carrying real-time traffic, what are two important reasons to consider serialization delay? (Choose two.)

A. Serialization delays are variable because they depend on the line rate of the interface and on the type of the packet being serialized.

B. Serialization delay is the time required to transmit the packet on the physical media.

C. Serialization delay depends not only on the line rate of the interface but also on the size of the packet.

D. Serialization delays are invariable because they depend only on the line rate of the interface.

E. Serialization delays are variable because they depend only on the size of the packet being serialized.

Answer: B,C ([LEAVE A REPLY](#))

NEW QUESTION: 222

Which two possible drawbacks should you consider when introducing Network Functions Virtualization in a network design? (Choose two)

A. An SDN orchestration layer is required to support NFV

B. Traffic flows are suboptimal

C. Bandwidth utilization increases

D. High-end routers are required to support NFV

E. OpenFlow must be supported in the network

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 223

You are designing a traffic monitoring and analysis system for a customer. Which traffic monitoring technique would you recommend to place the least amount of burden on the network infrastructure?

- A. SPAN monitor ports
- B. NetFlow
- C. IP NBAR
- D. passive taps

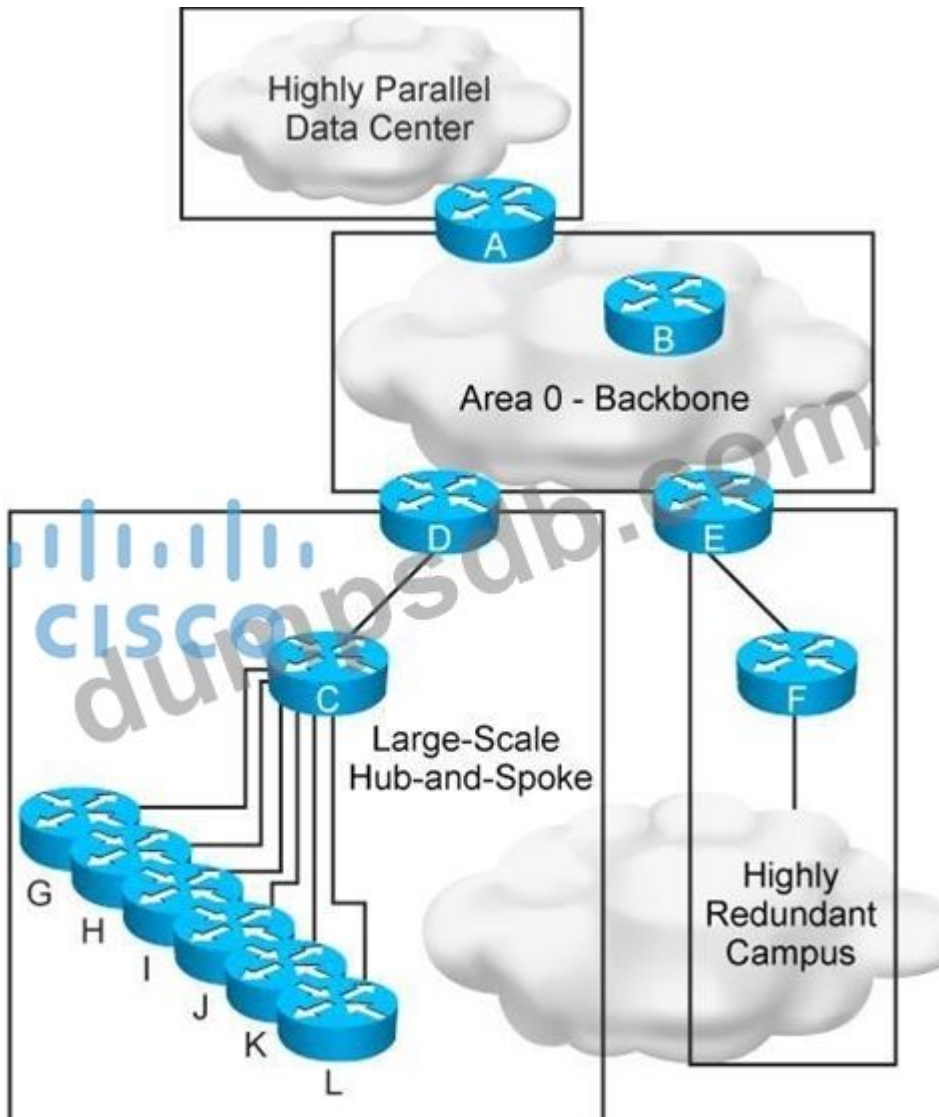
Answer: D ([LEAVE A REPLY](#))

Explanation/Reference:

49

NEW QUESTION: 224

Refer to the exhibit.



This new OSPF network has four areas, but the hub-and-spoke area experiences frequent flapping. In order to fix this design failure, which two mechanisms can you use to isolate the data center area from the hub-and-spoke area without losing Ip connectivity? (Choose two)

- A. Use OSPF distribute-list filtering on router A
- B. Make the data center area a NSSA
- C. Deploy a prefix summarization on router D
- D. Convert the data center area to EIGRP protocol
- E. Make the data center area totally stub

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 225

You are the lead IP network designer for a new service provider called XYZ, and you are working closely with the CTO to finalize design requirements. The CTO informs you that they want to transport IPv6 prefixes of customers through the XYZ network at this time; however, they need your advice on whether to deploy dual stack or MPLS 6PE/6VPE.

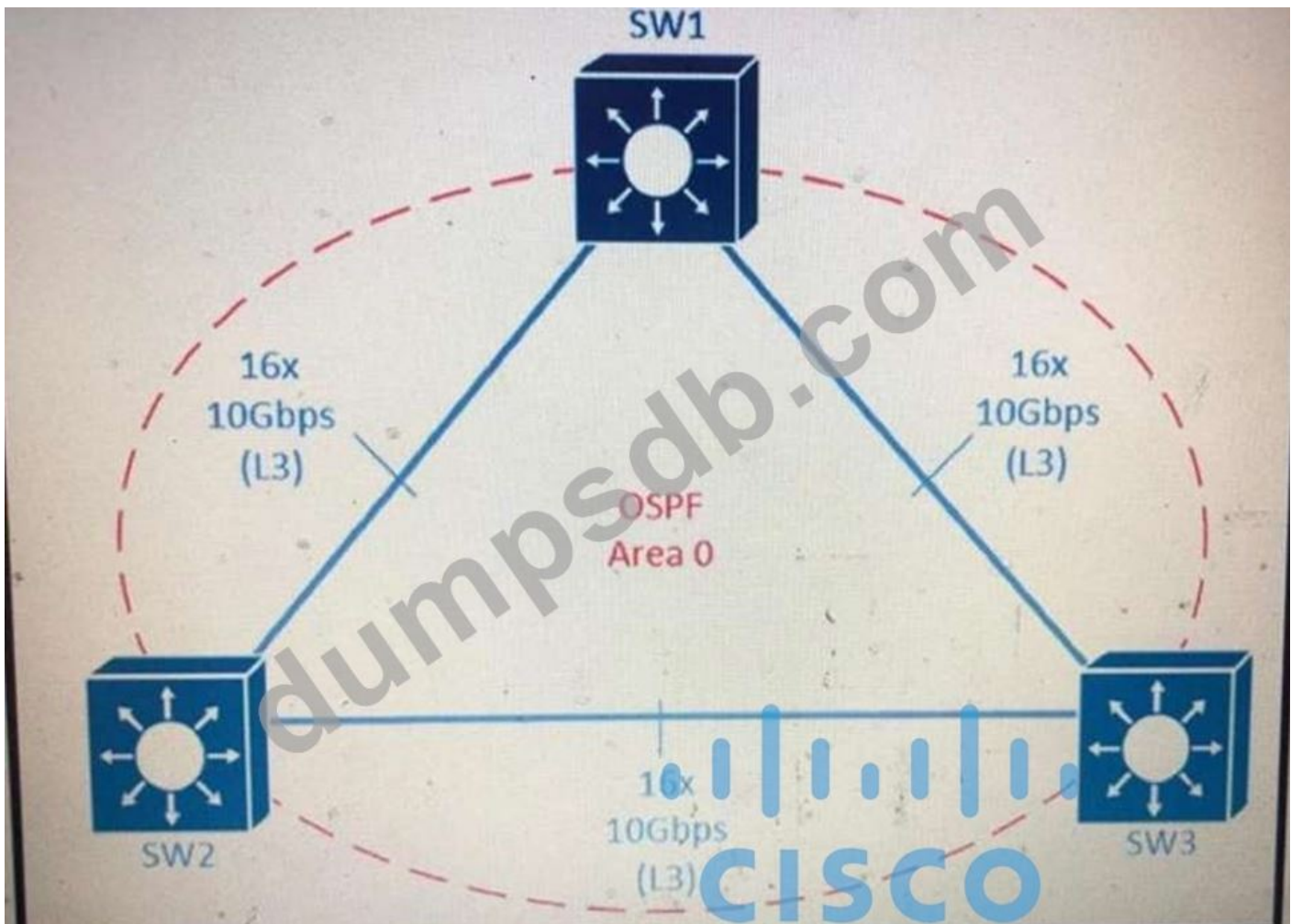
Which two options do you recommend? (Choose two.)

- A. Use MPLS 6PE to simplify the operation and keep a BGP-free core. When the LDPv6 becomes available, change to 4PE or keep the core using both IPv4 and IPv6. The main goal is to keep the core BGP-free and ensure that IPv4, IPv6, VPNv4, and VPNv6 are all label-switched.
- B. Prepare the dual-stack infrastructure from the beginning, even if BGP prefixes would have to be announced via IPv4 in case you decide to maintain the BGP-free core.
- C. Build a dual-stack network. Enable BGP in the core. Redistribute EBGP routes into IGP.
- D. Use MPLS 6VPE to simplify the operation and keep a BGP-free core. When the LDPv6 becomes available, change to 4PE or keep the core using both IPv4 and IPv6. The main goal is to keep the core BGP-free and ensure that IPv4, IPv6, VPNv4, and VPNv6 are all label-switched.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 226

Refer to the exhibit



Which two design options reduce the size of OSPF database? (Choose two)

- A. Layer 2 link aggregation between core switches
- B. Loop Free Alternate
- C. Type 3 LSA filtering
- D. Prefix suppression
- E. Incremental SPF

Answer: A,D ([LEAVE A REPLY](#))

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NEW QUESTION: 227

A company requests that you consult with them regarding the design of their production, development, and test environments. They indicate that the environments must communicate

effectively, but they must be kept separate due to the inherent failures on the development network. What will be configured on the links between the networks to support their design requirements?

- A. IBGP
- B. EBGP
- C. OSPF
- D. static routes

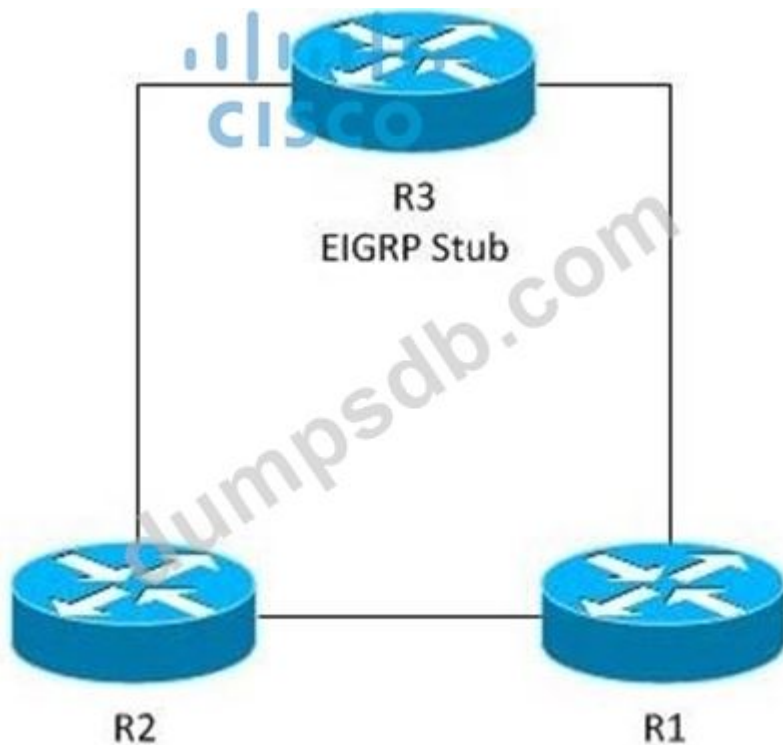
Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 228

Refer to the exhibit.



This diagram depicts the design of a small network that will run EIGRP on R1 and R2, and EIGRP Stub on R3. In which two ways will this network be impacted if there is link instability between R1 and R2? (Choose two.)

- A. R2 will have routes in its routing table that originate from R1 and R3.
- B. R3 will not be transit for traffic between R1 and R2.
- C. R1 will have routes in its routing table that originate from R2 and R3.
- D. R3 will have routes in its routing table that originate from R1 and R2.
- E. R3 will be transit for traffic between R1 and R2.

Answer: B,D ([LEAVE A REPLY](#))

NEW QUESTION: 229

The IGP next-hop reachability for a BGP route is lost but a default route is available.

Assuming that BGP

connectivity is maintained, what will happen to the BGP route?

- A. It will be put in a hold-down state by BGP until the next hop has been updated.
- B. It will be considered a valid route.
- C. It will be removed from the BGP table.
- D. It will be considered invalid for traffic forwarding.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 230

You are the Cisco Network Designer in P4S. Which is not major scaling, sizing, and performance consideration for an IPsec design?

- A. connection speed
- B. number of remote sites
- C. features to be supported
- D. types of devices at the remote site

Answer: D ([LEAVE A REPLY](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 231

You are designing a network to support data, voice and video. Which two main factors will you address to improve network convergence? (Choose two.)

- A. forwarding engine update delay
- B. event propagation delay
- C. routing table recalculation delay
- D. failure detection delay

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 232

A large ISP is analysing which IGP meets these following requirements

Network must be resilient against unstable MTU in one side of newly released transmission

pieces of equipment Network must support MPLS traffic engineering solution for future use Which

IGP must be selected and why?

- A. ISIS: adjacency remains up even if MTU changes
- B. OSPF: adjacency remains up even if MTU changes
- C. OSPF: in case MTU changes your TE tunnels keep the LSP stable
- D. ISIS : in case MTU changes your TE tunnels keep the LSP stable

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 233

Company A, a global content provider owns, data centers on different continents. Their data center design involves a standard three-Layer design with a Layer 3-only. HSRP is used as the FHRP. They require VLAN extension across access switches in all data centers, and they plan to purchase a Layer 2 interconnection between two of their data centers in Europe. In the absence of other business or technical constraints, which termination point is optimal for the Layer 2 interconnection?

- A. at the core layer, to offer the possibility to isolate STP domains
- B. at the core layer because all external connections must terminate there for security reasons
- C. at the aggregation layer because it is the Layer 2 to Layer 3 demarcation point
- D. at the access layer because the STP root bridge does not need to with the HSRP

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 234

Which is a requirement for performing attack detection by use of anomaly detection technologies?

- A. Syslog data
- B. Packet captures
- C. Baseline data
- D. Exploit signatures

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 235

Which major block is not included in the ETSI Network Function Virtualization reference framework?

- A. Network Function Virtualization Policy Manager
- B. Network Function Virtualization Management and Orchestration
- C. Network Function Virtualization Infrastructure
- D. Virtualized Network Function / Element Management Systems

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 236

Acme Corporation indicates that their network design must support the ability to scale to support a high number of remote sites. Which IGP is considered to scale better for a hub-and-spoke topology?

- A. IS-IS
- B. BGP
- C. EIGRP
- D. OSPF

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 237

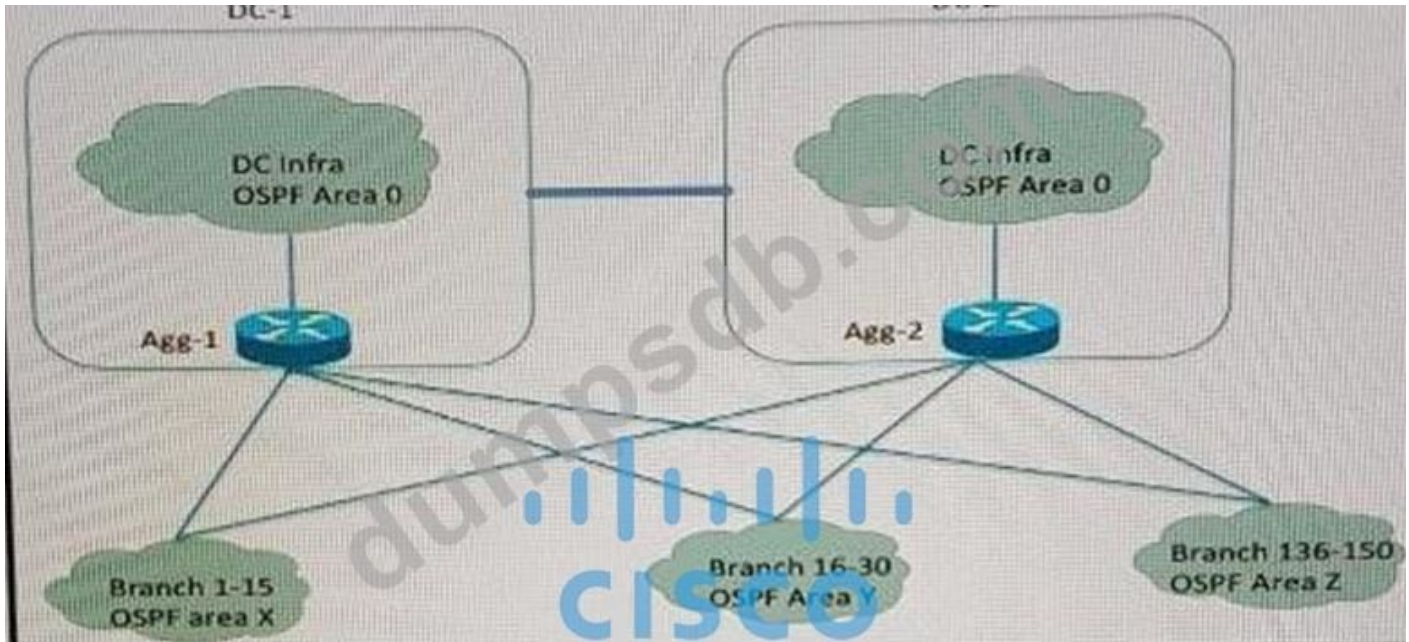
Which two SAN designs appropriate to support large-scale SAN environments? (Choose two)

- A. Fibre Channel forwarder
- B. Core-edge design
- C. Edge-core-edge design
- D. Split fabric design
- E. Dual fabric design

Answer: B,C (LEAVE A REPLY)

NEW QUESTION: 238

Refer to the exhibit



company xyz has 150 branch location across the U.S. Each branch is connected to two aggregation router one router in each data center The network is configured with Multiple OSPF with multiple OSPF areas and the aggregation router are ABRs A requirement is to keep an optimal path to the data centers and at the same time reduce the LSA propagation and SPF recomputation during a change in any part of the network Which design elements should be included on the aggregation router?

- A. distribute lists
- B. OSPF NSSA
- C. OSPF totally stubby area
- D. OSPF summarization

Answer: D (LEAVE A REPLY)

NEW QUESTION: 239

Which two IEEE standards are commonly used at the data link layer for an access network, in an IoT environment? (Choose two.)

- A. 802.11
- B. 802.15.4
- C. 802.16

D. 1901 2 NB-PLC

E. 802.22

Answer: A,B (**LEAVE A REPLY**)

Explanation/Reference:

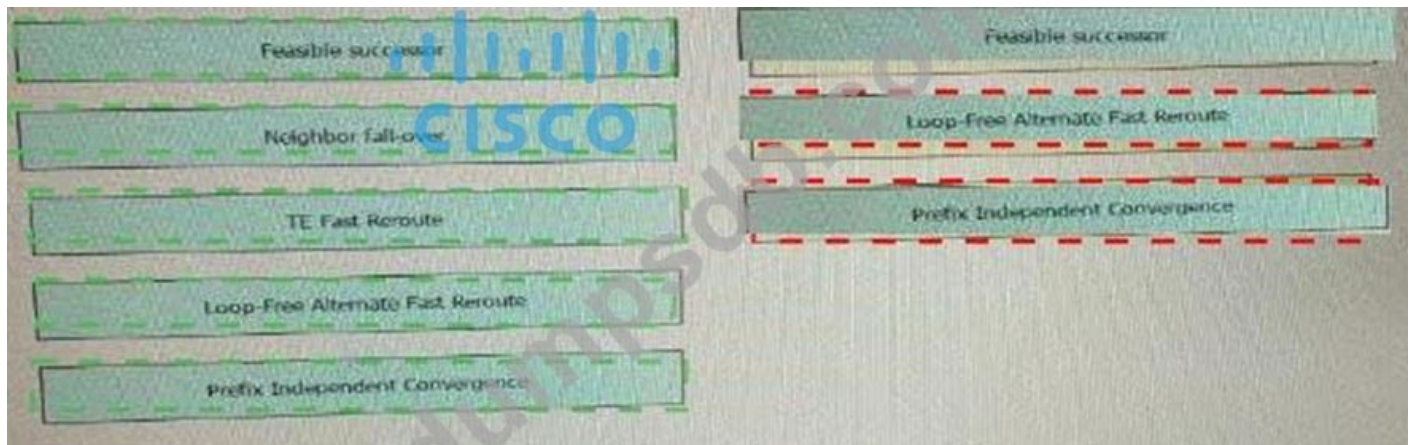
Explanation:

NEW QUESTION: 240

Drag the fast Reroute mechanism on the left and drop it onto the corresponding routing protocol on the right



Answer:



Explanation

A, D, E

NEW QUESTION: 241

As part of a new network design, you are helping the Network Management Team to develop a proactive report to identify places in the network where problems may happen. The network management tool can poll the network devices only via SNMP GET operations. Which two threshold-crossing metrics should you include in this report? (Choose two.)

- A. packet loss
- B. CPU utilization
- C. heat dissipation
- D. IP reachability
- E. energy consumption
- F. link bandwidth utilization

Answer: ([SHOW ANSWER](#))

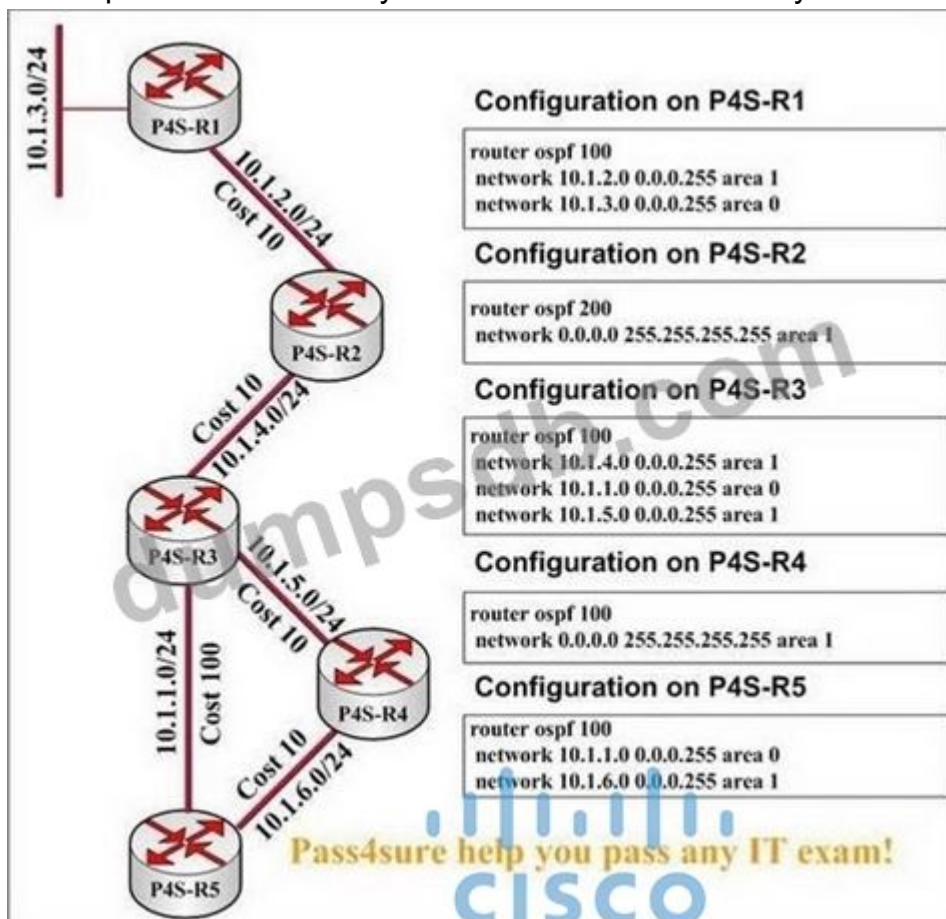
Explanation/Reference:

Explanation:

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NEW QUESTION: 242

In this network presented in the following exhibit, traffic destined for 10.1.3.1 arrives at P4S-R5. Which path will be taken by the traffic from here and why?



- A. It will take the path P4S-R3, P4S-R2, P4S-R1, because OSPF always prefers paths within an area.
- B. It will not take any path; the traffic will be dropped because P4S-R2 is in a different autonomous system than P4S-R1 or P4S-R3.
- C. It will take the path the path P4S-R4, P4S-R3, P4S-R2, P4S-R1, because this is the lowest cost path.

D. It will not take any path; the traffic will be dropped because the summary (type 3) LSA advertised by P4S-R1 into area 1 will not be readvertised back into area 0.

Answer: D ([LEAVE A REPLY](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 243

A many-to-many enterprise messaging application is using multicast as a transport mechanism. As part of the network design for this application, which multicast address should be used, according to best practices outlined in RFC 2365?

A. 224.0.0.60

B. 232.192.0.60

C. 239.128.0.60

D. 239.193.0.60

Answer: D ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 244

You have been asked to establish a design that will allow your company to migrate from a WAN service to a Layer 3 VPN service. In your design, you are keeping some WAN links between critical sites as a backup for this service. You plan to use OSPF as your IGP and BGP for the PE-CE protocol. When the Layer 3 VPN service is available, how will you prevent transit traffic over the backup links?

A. Use conditional advertisement only when the Layer 3 service is down.

B. Redistribute routes at the CE as external type 2.

C. Manually turn off the backdoor link when the Layer 3 service is up.

D. Redistribute routes at the CE as external type 1.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 245

Which two options are two advantages of summarizing networks at the aggregation layer rather than at the core? (Choose two.)

A. It prevents black hole routing.

B. It avoids network-wide impact upon VLAN changes local to the aggregation devices.

C. It prevents the core from having unnecessary routes.

D. It no longer needs a core layer.

Answer: B,C ([LEAVE A REPLY](#))

NEW QUESTION: 246

Voice traffic between two campus enterprise networks is growing. The network designers decide to add a second 10-Mb Metro Ethernet service parallel to their original 10-Mb service in order to provide more bandwidth and diversity. The QoS profile will be the same on the new 10-Mb service due to the voice stability on the first Metro Ethernet link. When the second link is added to the OSPF domain, which traffic design consideration would have the most impact on the voice traffic when both links are active?

- A. per-destination IP address basis
- B. per-flow basis
- C. per-packet basis
- D. per-source IP address basis

Answer: [\(SHOW ANSWER\)](#)

Explanation/Reference:

Explanation:

8

NEW QUESTION: 247

A very large enterprise customer is migrating from EIGRP to IS-IS. Which option is your main concern to avoid changes in the path packets take?

- A. the areas sizes
- B. the redistribution points
- C. the bandwidth and metrics on the links
- D. the number of prefixes

Answer: [C \(LEAVE A REPLY\)](#)

Explanation/Reference:

Explanation:

NEW QUESTION: 248

Your firm has been awarded a contract to design a Criminal Justice Information Services Version 5.0- compliant network utilizing advanced authentication policies. Which two methods could be utilized?

(Choose two.)

- A. PKI
- B. biometric
- C. password
- D. UKI

Answer: [A,B \(LEAVE A REPLY\)](#)

NEW QUESTION: 249

A network designer decides to connect two labs together to test multicast features interoperability. Before the networks are connected together, the network administrator mentions that overlapping multicast IP addresses between the two labs will cause issues because all the routers on the

network are provisioned for Source-Specific Multicast using IGMPv3. Which statement about the connectivity of both multicast domains is true?

- A. IGMPv3 can support overlapping multicast IP addresses between the labs
- B. IGMPv3 cannot support overlapping multicast IP addresses between the labs
- C. IGMPv3 requires NAT to support the overlapping multicast IP addresses between the labs
- D. IGMPv3 requires a unique RP when connecting both labs together

Answer: ([SHOW ANSWER](#))

Section: Evolving Technologies

NEW QUESTION: 250

Which option is a critical mechanism to optimize convergence speed when using MPLS FRR?

- A. IGP timers
- B. bandwidth reservation
- C. shared risk link groups
- D. down detection

Answer: D ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 251

You are designing a Group Encrypted Transport virtual private network solution for an existing branch network. The existing network has the following characteristics:

- * 50 remote sites (with an additional 30 remote sites expected over the next 3 years)
- * Connectivity between all sites is via Multiprotocol Label Switching Layer 3 virtual private network service from a single provider
- * Open Shortest Path First is the routing protocol used between provider edge and customer edge routers
- * The customer edge routers will become group members performing the encryption between sites

Which additional routing protocol would you use for the overlay routing between the group members?

- A. Next Hop Resolution Protocol
- B. Enhanced Interior Gateway Routing Protocol
- C. Open Shortest Path First (with a different process ID)
- D. External Border Gateway Protocol
- E. No additional protocol is necessary.
- F. Routing Information Protocol Version 2

Answer: E ([LEAVE A REPLY](#))

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