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NEW QUESTION: 1

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

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

NEW QUESTION: 2

Refer to the exhibit. A customer currently has a large EIGRP based network with several remote sites attached. All remote sites connect to the two Corporate data centers, depicted as 10.1.1.0 and 10.1.2.0. The customer has experienced several network wide failures where neighbours were stuck in active and had other network stability issues due to some links flapping. Which two redesign options increase network stability and reduce the load on the remote site routers, while still maintaining optimal routing between remote sites and the two data centers? (Choose two)

- A. Perform summarization at the remote sites, selectively leaking route's sent to the data centers
- B. Perform summarization at the data centers, selectively leaking routes sent to the remote sites
- C. Set the data center routers as stub routers
- D. Increase the hold interval to accommodate lost hello packets on error prone links
- E. Set the hello interval timer to be larger than the hold interval

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

NEW QUESTION: 3

Which two impacts of adding the Ip events dampening feature to a network design are true? (Choose two.)

- A. it improves overall network stability.
- B. It reduce the utilization of system processing resources.
- C. It protects against routing loops.

- D. It switches traffic immediately after a link failure.
- E. It speeds up link failure detection.

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

NEW QUESTION: 4

What is the most effective way to improve BGP convergence in the event that a point-to-point link, over which an EBGP session is running, fails?

- A. reduce the keepalive timer to the minimum value allowed
- B. enable BGP graceful restart
- C. use BGP multihop
- D. configure EBGP fast external fallover

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 5

Which two statements regarding to QoS marking are true? (Choose two)

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

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

NEW QUESTION: 6

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

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

NEW QUESTION: 7

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

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

NEW QUESTION: 8

To securely transport EIGRP traffic, a network administrator will build VPNs between sites. What is the best method to accomplish the transport of EIGRP traffic?

- A. IPSec in tunnel mode
- B. IPSec in transport mode
- C. GRE with IPSec in transport mode
- D. GRE with IPSec in tunnel mode

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

Section: (none)

Explanation/Reference:

NEW QUESTION: 9

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. Install additional APs in monitor mode where the co-channel interference would otherwise be affected.
- B. Fine tune the access point's radio configuration to have a higher average transmission power to achieve better coverage.
- C. Use directional antennas to provide better cell separation.
- D. Increase the AP density to create an average inter-access point distance of less than 40 ft.| 12.2meters
- E. Add access points along the perimeter of the coverage area.

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

NEW QUESTION: 10

A green data center is being deployed and a design requirement is to be able to readily scale server virtualization. Which IETF standard technology can provide this requirement?

- A. Transparent Interconnection of Lots of Links
- B. fabric path
- C. data center bridging
- D. unified fabric

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

Explanation/Reference:

Explanation:

NEW QUESTION: 11

You have been tasked with designing a data center interconnect to provide business continuity You want to encrypt the traffic over the DCI using IEEE 802.1AE MACsec to prevent the deployment of any firewall or IPS. Which two interconnect technologies support MACsec? (Choose two.)

- A. DMVPN
- B. MPLS Layer 3 VPN
- C. KVPLS
- D. EoMPLS
- E. GET VPN

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

NEW QUESTION: 12

A mobile network operator is designing an NGN backhaul and plans to migrate their legacy SDH and SONET-based transport network. The NGN network must achieve similar failover and failback times as the legacy network (50 milliseconds). Which method does allow for similar failover and failback times on the new packet-based network?

- A. BPDU
- B. E-OAM
- C. BFD
- D. UDLD

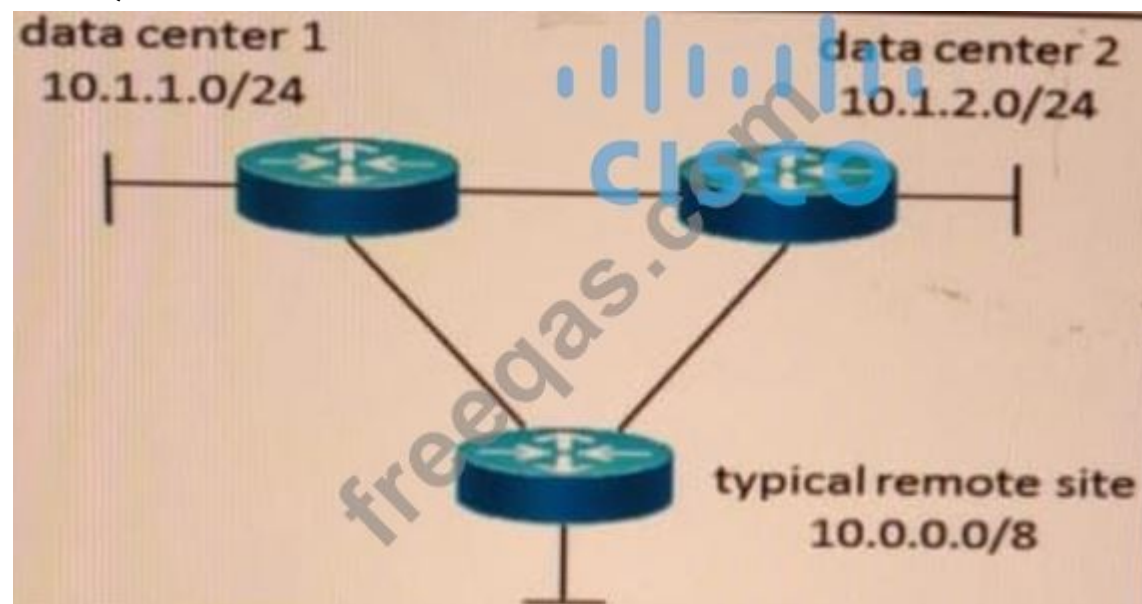
Answer: C ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

References:

NEW QUESTION: 13



Refer to the exhibit. A customer currently has a large EIGRP based network with several remote sites attached.

All remote sites connect to the two Corporate data centers, depicted as 10.1.1.0 and 10.1.2.0. The customer has experienced several network wide failures where neighbours were stuck in active and had other network stability issues due to some links flapping. Which two redesign options increase network stability and reduce the load on the remote site routers, while still maintaining optimal routing between remote sites and the two data centers? (Choose two)

- A. Perform summarization at the data centers, selectively leaking routes sent to the remote sites
- B. Increase the hold interval to accommodate lost hello packets on error prone links
- C. Set the hello interval timer to be larger than the hold interval
- D. Set the data center routers as stub routers
- E. Perform summarization at the remote sites, selectively leaking route's sent to the data centers

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

NEW QUESTION: 14



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

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

NEW QUESTION: 15

You are designing a NAC OOB 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. untrusted VLAN
- B. user VLAN
- C. management VLAN
- D. authentication VLAN

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

NEW QUESTION: 16

Which two OSPF design considerations should you implement to support the eventual growth of a network, so that CPU and memory are unaffected by the size and complexity of the link-state database in a large service provider network? (Choose two.)

- A. Turn on route dampening.
- B. Add redundancy between critical locations.
- C. Add more memory.
- D. Create network summaries.
- E. Turn on packet pacing.
- F. Turn on the Incremental SPF feature.

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

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NEW QUESTION: 17

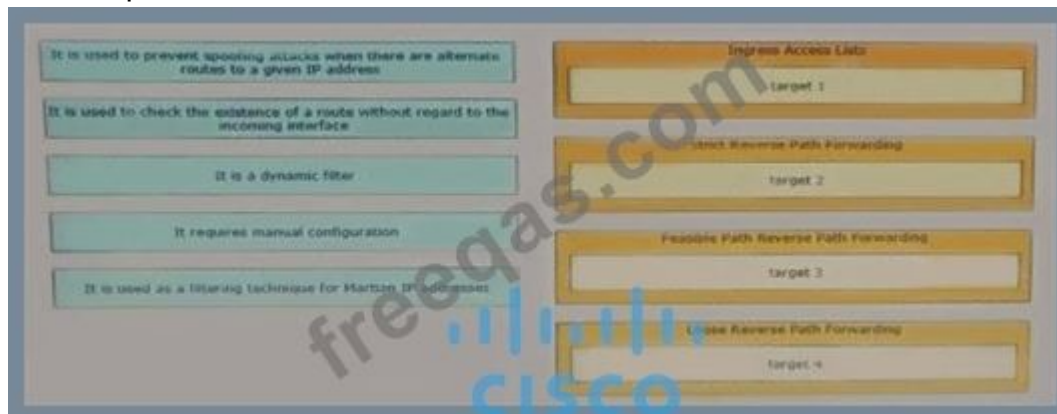
You are designing a new multisite data center network within the same city. You are using the newest routers that run OSPF and DWDM point-to-point interfaces for site-to-site connectivity. Your primary objective is to use the fastest possible method for interface failure detection. Which method achieves this objective?

- A. UDLD
- B. Interface event dampening
- C. Fast-hello timers
- D. LoS/AIS event faults

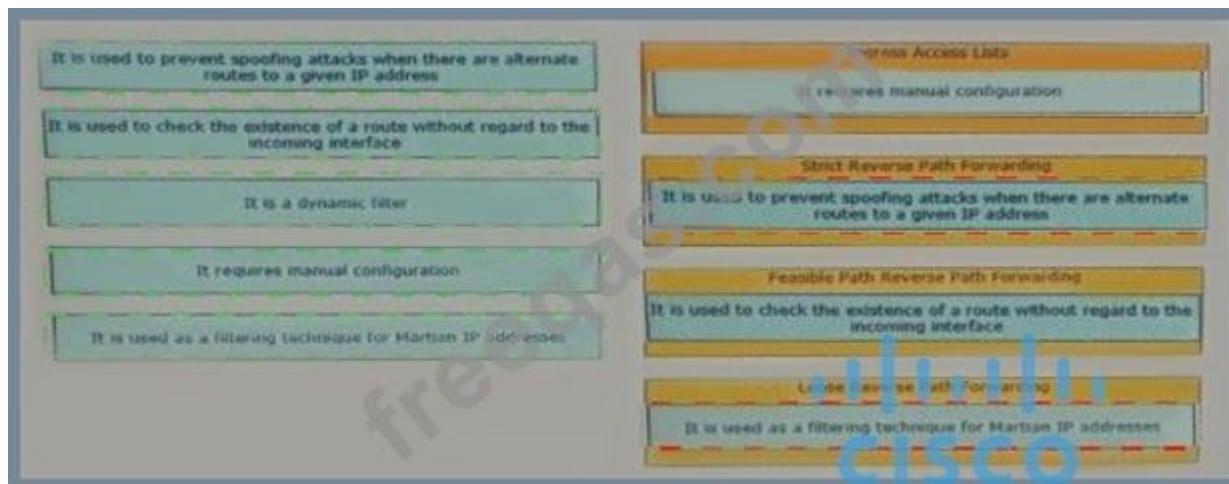
Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 18

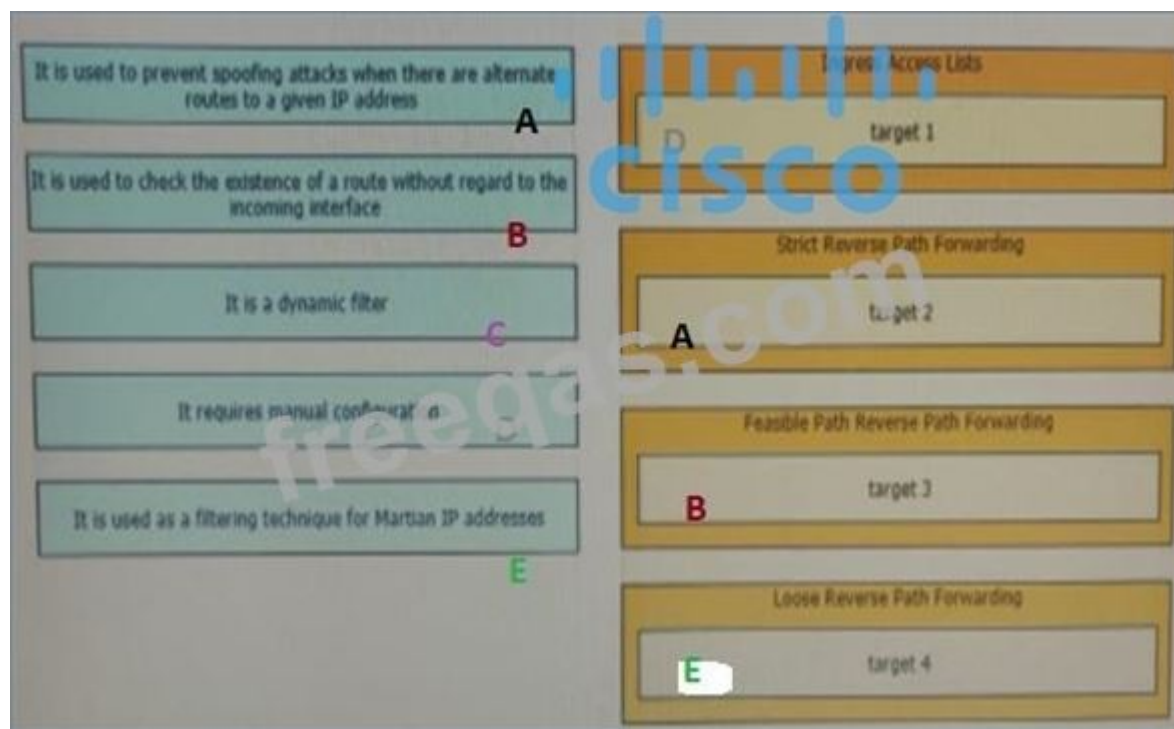
Drag and drop the design characteristics from the left onto the correct network filter techniques on the right. Not all options are used.



Answer:



Explanation



<https://tools.ietf.org/html/rfc8704>

<https://tools.ietf.org/html/rfc3704>

NEW QUESTION: 19

A certain service provider is supporting a customer who uses IPsec tunnels between dual-homed CE routers. The service provider carries infrastructure routes using OSPF and carries tunnel endpoints using BGP. Which two steps will be taken by the service provider to provide fast convergence in case of node failure in its network? (Choose two.)

- A. tune OSPF on all routers
- B. tune BGP on all routers
- C. carry IPsec tunnels in L2TPv3 among PE routers
- D. carry IPsec tunnels in VPLS among PE routers

Answer: A,B (LEAVE A REPLY)

Section: (none)

Explanation/Reference:

NEW QUESTION: 20

What is the most common IoT threat vector?

- A. Attacks against programming errors in IoT devices
- B. Physical access to IoT devices that are installed in non-secure locations
- C. Insertion of invalid inputs that cause denial of service
- D. Human error and social engineering to access supervisory control systems.

Answer: A (LEAVE A REPLY)

NEW QUESTION: 21

You are designing a network that includes IP QoS. Which two architectures could be used to ensure that IP QoS is implemented properly? (Choose two.)

- A.** Differentiated Services, where the user, with the assistance of the RSVP signaling protocol, reserves the resources end to end before sending the data
- B.** Integrated Services, which relies on the information carried within each packet to make resource- allocation decisions at each network node
- C.** Integrated Services, where the user, with the assistance of the DSCP signaling protocol, reserves the resources end to end before sending the data
- D.** Integrated Services, where the user, with the assistance of the RSVP signaling protocol, reserves the resources end to end before sending the data
- E.** Differentiated Services, which relies on the information carried within each packet to make resource- allocation decisions at each network node

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

NEW QUESTION: 22

Which two OSPF network types can be used in the design of a hub tunnel interface for a phase 3 DMVPN that requires spoke-to-spoke direct traffic? (Choose two)

- A.** point-to-multipoint
- B.** broadcast
- C.** point-to-point
- D.** nonbroadcast
- E.** point-to-multipoint nonbroadcast

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

NEW QUESTION: 23

When a router running EIGRP considers alternate paths, which ones will it consider loop- free?

- A.** ones in which the reported distance is the same as the metric of the best possible path
- B.** ones in which the reported distance is less than the feasible distance
- C.** ones in which the feasible distance is the same as the best possible route
- D.** ones in which the reported distance is equal to the feasible distance

Answer: ([SHOW ANSWER](#))

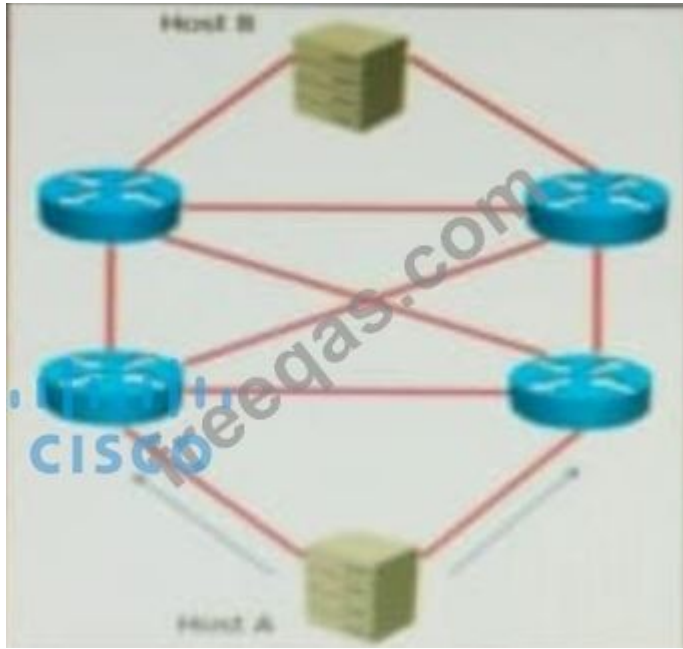
NEW QUESTION: 24

Which option describes an advantage of UDLD?

- A.** It prevents switched traffic from traversing suboptimal paths on the network.
- B.** It allows small, unmanaged switches to be plugged into ports of access switches without the risk of switch loops.
- C.** It does not generate a spanning-tree topology change upon connecting and disconnecting a station on a port.
- D.** It makes the port go immediately into the forwarding state after being connected.
- E.** It prevents switch loops caused by uni-directional point-to-point link condition on Rapid PVST+ and MST.
- F.** It prevents switch loops by detecting one-way communications on the physical port.

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

NEW QUESTION: 25



Refer to the exhibit. All links are P2P Layer 3. A high availability application is synchronizing data between Host A and Host B. To increase the chance of delivery, the same data is sent twice from Host A on two different NICs toward the two NICs on Host B. Which solution must be deployed in the network to ensure that any failure in the network does not trigger data loss on Host B?

- A. BFD
- B. IP Fast Reroute
- C. EIGRP with feasible successors
- D. Static routes

Answer: (SHOW ANSWER)

NEW QUESTION: 26

Company XYZ has an audit requirement to encrypt traffic between selected development teams. Those teams are located in multiple sites across the country. They must migrate all locations to a MPLS Layer 3 VPN-Based service. But this implementation must not impact the VoIP solution. The VoIP traffic to and from the call centre sites must be copied to the data centre servers so that it is recorded to meet another audit requirement. Which solution meets these requirements?

- A. Implement a DMVPN-based encrypting all traffic except the VoIP traffic
- B. Implement LISP-based tunnels for the development traffic.
- C. Implement site-to-site GRE tunnels only for development traffic
- D. Implement GETVPN with selective encryption only for the development traffic

Answer: A (LEAVE A REPLY)

Explanation

https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/WAN_and_MAN/ngwane/ngwanempls.pdf

NEW QUESTION: 27

A company supports IPv4 and IPv6 addresses, and they need to be able to support flow-based translations for multiple IPv6 devices to a single IPv4 address. Which address family translation design solution should be recommended?

- A. stateful NAT-PT

- B. stateless NAT64
- C. stateful NAT64
- D. NAT-PT

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

NEW QUESTION: 28

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. Deploy RSVP for dynamic VoIP packet classification.
- D. Set up VAD to replace gaps on speech with comfort noise.

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

NEW QUESTION: 29

The VPN termination function provides the ability to connect two networks together securely over the internet. Which of these is true of IP addressing with regard to VPN termination?

- A. termination devices need routable addresses inside the VPN
- B. termination devices need not routable addresses inside the VPN
- C. IGP routing protocols will update their routing tables over an IPsec VPN
- D. addressing designs need to allow for summarization

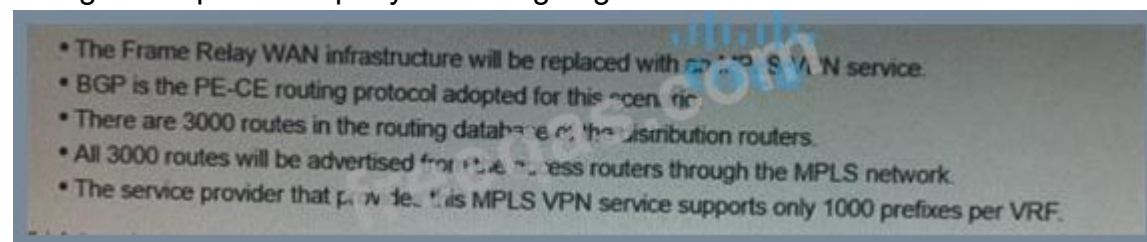
Answer: D ([LEAVE A REPLY](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 30

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

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

NEW QUESTION: 31

A mobile network operator is designing an NGN backhaul and plans to migrate their legacy

SDH and SONET-based transport network to a packet-based transport network. The NGN network must achieve similar failover and failback times as the legacy network (50 milliseconds). Which method does allow for similar failover and failback times on the new packet-based network?

- A. UDLC
- B. E-OAM
- C. BPDU
- D. BFD

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 32

Refer to the exhibit. A new high availability DB sever 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: ([SHOW ANSWER](#))

NEW QUESTION: 33

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: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 34

Which option is a fate-sharing characteristic in regards to network design?

- A. It provides data sequencing and acknowledgment mechanisms
- B. A failure of a single element causes the entire service to fail
- C. It protects the network against failures in the distribution layer

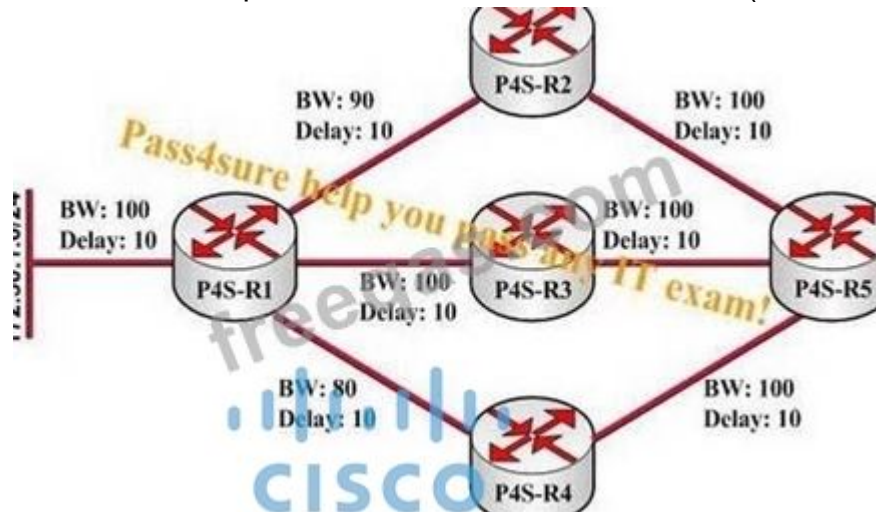
D. It acts as a stateful forwarding device

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 35

You work as a network administrator for the P4S company. Study the exhibit carefully, the network is running EIGRP. You need traffic from P4S-R5 destined for 172.30.1.0/24 to be routed through P4S-R4.

You should complete which two actions combined? (Choose two.)



- A. change the bandwidth on the link between P4S-R4 and P4S-R5 to 110
- B. change the bandwidth on the link between P4S-R2 and P4S-R5 to 70
- C. change the bandwidth on the link between P4S-R1 and P4S-R3 to 80
- D. change the bandwidth on the link between P4S-R3 and P4S-R5 to 70

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 36

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

- A. It reduces the complexity of the L1 domains
- B. The L1 and L2 domains can easily overlap
- C. It can be applied to any kind of topology
- D. The L2 domain is contained and more stable

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

NEW QUESTION: 37

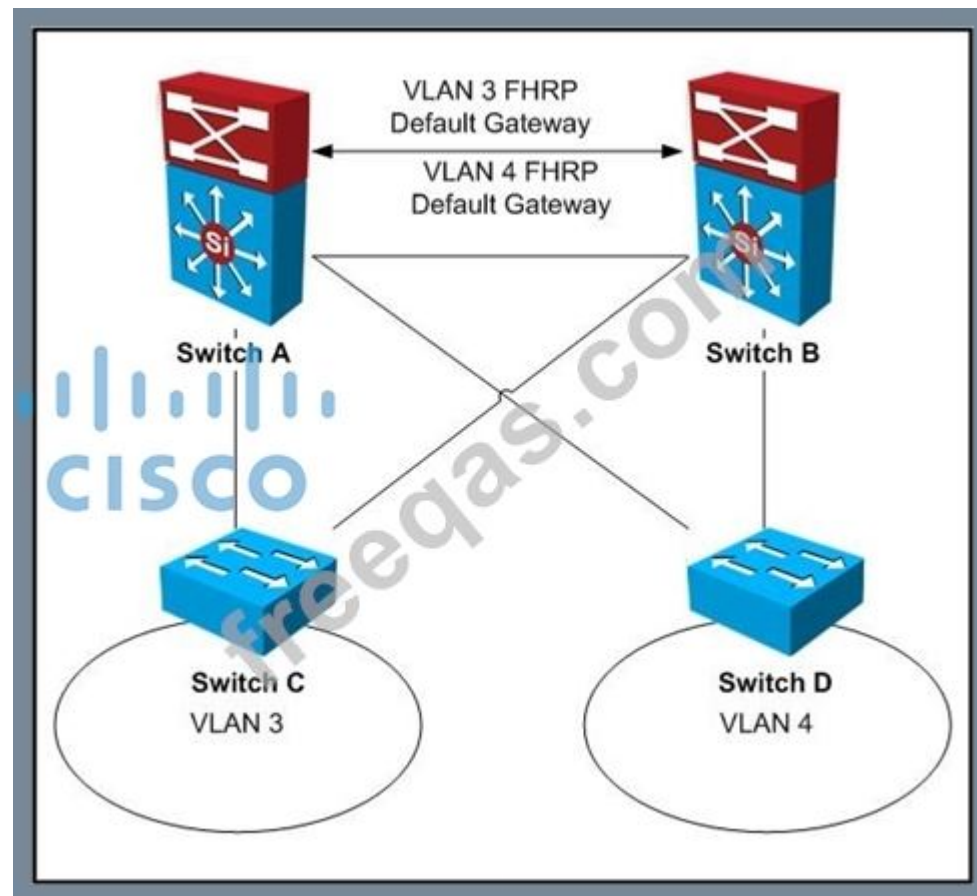
How should multiple OSPF areas be designed when deployed on a classic three-layer (core/distribution/access) network hierarchy?

- A. The OSPF flooding domain boundary should be within the distribution layer.
- B. OSPF should generally be deployed in a three-layer domain hierarchy to align with the physical three-layer hierarchy.
- C. OSPF flooding domain boundaries should be placed with route aggregation in mind.
- D. The OSPF flooding domain boundary should be at the edge of the core layer.

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

NEW QUESTION: 38

Refer to the exhibit.



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

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 39

You are designing a network solution to connect a primary data center to a disaster recovery site. The applications hosted on the site will be mainly web and email servers that are provided through a virtualized environment. A third data center facility may also be added in the next six months. Which connectivity type is appropriate for this design?

- A. L2TPv3
- B. VPLS
- C. point-to-point GRE tunnels
- D. VPWS

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

Explanation/Reference:

Explanation:

NEW QUESTION: 40

A network designer is redesigning an enterprise campus network to ensure that Ethernet switches proactively attempt to reconnect after a fiber cut. In the design, they will have to address areas where fiber cuts exist on campus from past troubleshooting, where a single fiber is disconnected in the fiber pair, leading to looping.

Which feature could be implemented in the design to allow the Spanning Tree Protocol on the switches to be protected?

- A.** loop guard
- B.** UniDirectional Link Detection aggressive mode
- C.** UniDirectional Link Detection
- D.** root guard

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 41

Your enterprise customer has asked where they should deploy flow monitoring in their network to monitor traffic between branch offices.

What is your design recommendation?

- A.** at the edge of the network so that user traffic will be seen
- B.** at the central site, because all traffic from the remotes will be seen there.
- C.** in the core, because all traffic will be seen there
- D.** in the data center, because all user traffic will be seen there

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 42

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 known alternate paths and determine if they are loop-free
- D.** to test for neighbor state when the network topology is in flux

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

NEW QUESTION: 43

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.

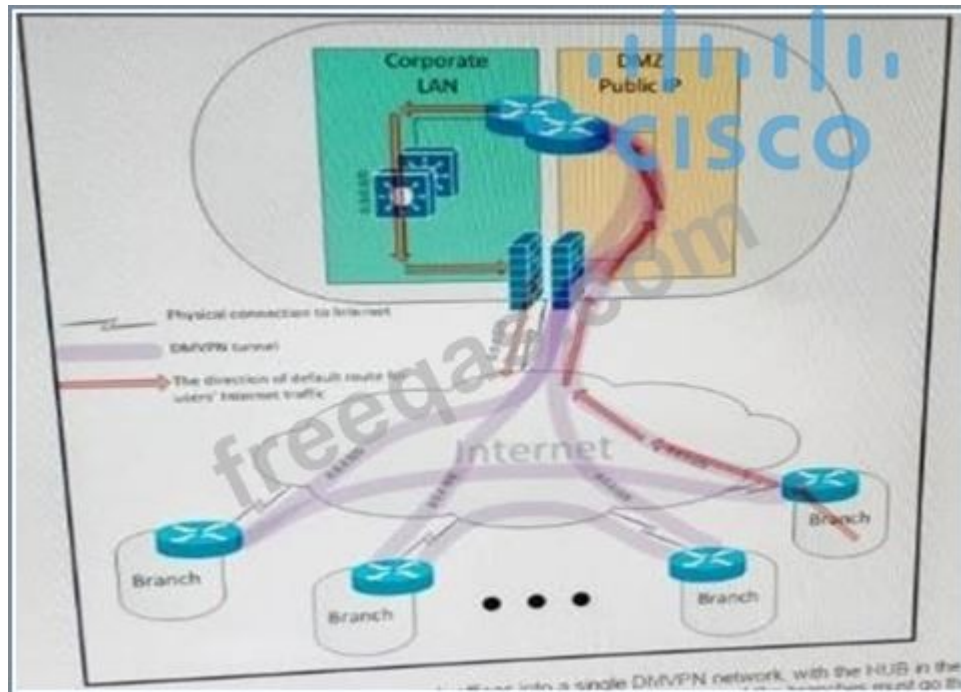
Under normal conditions, Internet traffic should be routed directly to the data center where the services are located. When one Internet connection fails, the complete traffic for both data centers should be routed by using the remaining Internet connection. In which two ways can this routing be achieved?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

- A. The data center provider must have an additional public IP address block for this routing.
- B. 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.
- 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. BGP will always load-balance the traffic to both data center sites.
- 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 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.

Answer: B,D (LEAVE A REPLY)

NEW QUESTION: 44

Refer to the exhibit.



A customer interconnected hundreds of branch offices into a single DMVPN network, with the HUB in the main data center. Due to security policies, the customer requires that the default route for all Internet traffic from the users at the branches must go through the tunnel and the only connections that are allowed to and from the branch router over the local internet circuit are the DMVPN tunnels. Which two combined actions must you take on the branch router to address these security requirements and keep the solution scalable? (Choose two)

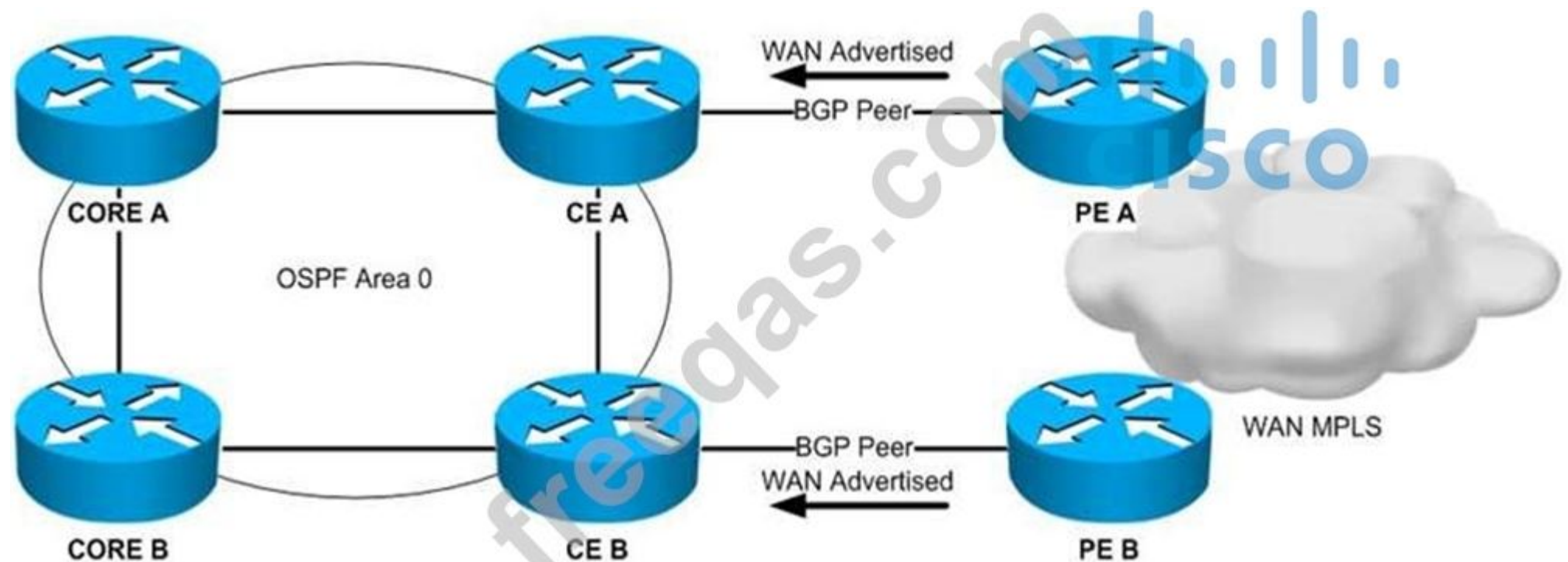
- A. Use a floating default route with the preferred path over the tunnel and a backup path over the Internet natively

- B. Protect the WAN interface by an inbound ACL that permits only IPsec-related traffic
- C. Place the WAN interface in a front-door VRF, leaving the tunnel interface in the default routing instance
- D. Implement a zone-based firewall that allows only IPsec-related traffic from zone UNTRUSTED to zone TRUSTED
- E. Add a host route for the public IP address of each remote branch and HUB routers that points directly to the local ISP, and add a default route that points to the tunnel

Answer: B,C (LEAVE A REPLY)

NEW QUESTION: 45

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: 46

In a routed access hierarchical campus design, the access-to-distribution Layer 2 uplink trunks are replaced with Layer 3 point-to-point routed links. Why is it recommended that VLANs are confined on a single access switch rather than span across multiple access switches?

- A. to prevent the occurrence of Layer 2 loops
- B. to allow for fault isolation

- C. to prevent routing black holes
- D. to allow for better convergence time

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

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NEW QUESTION: 47

A junior engineer is implementing one of your optical designs and asks about CWDM (Coarse Wavelength Division Multiplexing). Which two features describe CWDM? (Choose two.)

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

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

NEW QUESTION: 48

Which statement about SDN framework environment is true?

- A. The control plane is pulled from the networking element and put in a SDN controller
- B. The data plane is pulled from the networking element and put in a SDN controller
- C. The control plane and data plane is pulled from the networking element and put in a SDN controller and SDN agent
- D. The control plane functions is split between a SDN controller and the networking element
- E. The data plane is controlled by a centralized SDN element

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

NEW QUESTION: 49

Refer to the exhibit.

You must design this network for IP Fast Reroute by enabling the OSPF Loop-Free

Alternates feature (not Remote Loop-Free Alternates). Which two options are concerns about the proposed solution? (Choose 2)

- A. Fast Reroute requires MPLS TE.
- B. OSPF Loop-Free Alternates on ring topologies are prone to routing loops.
- C. The solution is prone to microloops in case of congestion
- D. OSPF Loop-Free Alternates is not supported on ring topologies.
- E. OSPF Loop-Free Alternates is transport dependent.

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

NEW QUESTION: 50

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

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

NEW QUESTION: 51

Company Y is a mobile backhaul provider that uses microwave rings in their network.

Which low-cost, simple technology do you recommend to Company Y to ensure the fastest convergence times in a ring topology?

- A.** IP Event Dampening
- B.** MPLS Traffic Engineering
- C.** Remote Loop-Free Alternate
- D.** hub and spoke with ECMP
- E.** sub-second IGP hello and dead timers

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

NEW QUESTION: 52

A service provider is offering four classes of service, with each class mapped to a separate queue. Some customers complain about receiving out-of-order packets, which cause application degradation. Which QoS policy activity most likely causes these out-of-order packets?

- A.** remarking
- B.** traffic shaping
- C.** policing
- D.** WRED

Answer: (SHOW ANSWER)

Section: (none)

Explanation/Reference:

NEW QUESTION: 53

Which three items do you recommend for control plane hardening of an infrastructure device? (Choose three)

- A.** To enable unused services

- B. Redundant AAA servers
- C. Control Plane Policing
- D. Routing protocol authentication
- E. SNMPv3
- F. Warning banners

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 54

In an MPLS-based network, there is a link that constantly flaps. This flapping makes the network constantly reconverge and causes it to become unstable. Which two technologies can be deployed to resolve the design failure? (Choose two.)

- A. IP Event Dampening
- B. IP Routing Protocol Route Purge
- C. BFD
- D. Carrier Delay

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

NEW QUESTION: 55

Refer to the exhibit. This customer uses Gigabit Ethernet on all router interfaces and gets point-to-point Layer 2 VPN connections from their telco provider. This network runs IS-IS with default parameters. Which action manipulates traffic flow so that router A traffic takes the high-speed links as the preferred path when routing to router H?

- A. Manually adjust the interface metrics
- B. Manually adjust the delay parameters on the circuits
- C. Adjust the reference bandwidth used to calculate the interface metrics.
- D. Match the interface bandwidth with the actual circuit speed

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 56

You are tasked with implementing a 1000-phone remote access solution, where phone calls 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 negative impact on the delay of the packet?

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 57

The service provider that you work for wants to offer IPv6 internet service to its customers without upgrading all of its access equipment to support IPv6. Which transition technology do you recommend?

- A. CGN
- B. 6RD

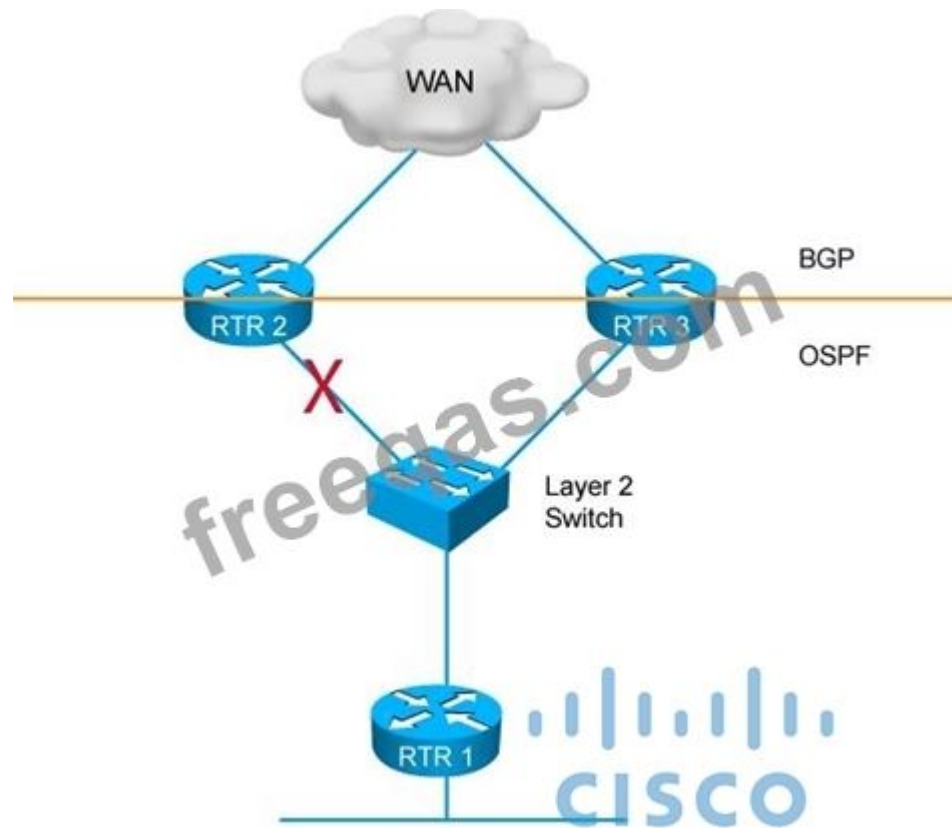
C. NAT64

D. dual-stack CPE

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

NEW QUESTION: 58

Refer to the exhibit.



RTR 1 uses RTR 2 as the primary WAN exit point. When a failure occurs in the link connected to RTR 2 LAN, it takes about 40 seconds for RTR 1 to use the backup path via RTR 3. Which two mechanisms can be used independently to improve the failure detection time to 1 second or less when RTR 1 failover to RTR3? (Choose two.)

- A. Tune OSPF fast hello on all the routers.
- B. Use BFD with OSPF between RTR 1 and RTR 2.
- C. Configure EEM on RTR 2.
- D. Change OSPF throttling timer.
- E. Use BFD with OSPF between RTR 2 and RTR 3.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 59

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: 60

Which statement about CiscoWorks 2000 Inventory Manager is true?

A. It uses SNMP v1.

B. It scans devices for hardware information.

C. It scans and records the operational status of devices.

D. When the configuration of a device changes, the inventory is automatically updated.

Answer: B (LEAVE A REPLY)

Section: (none)

Explanation/Reference:

NEW QUESTION: 61

Your company requires two diverse multihop eBGP peerings to a partner network. Which two methods should you use to improve lost peer detection? (Choose 2)

A. Use sub-second hold timers for the peers.

B. Use Selective Address Tracking and match the peers.

C. Use sub-second keepalives for the peers.

D. Use sub-second minimum route advertisement Interval timers for the peers.

E. Use Fast Peering Session Deactivation for the peers.

Answer: B,E (LEAVE A REPLY)

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NEW QUESTION: 62

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 tunnelling technology do you recommend?

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

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

NEW QUESTION: 63

Select and Place:

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 used for Layer 2 multipoint services.

Protocols

LDP

RSVP

BGP

L2TPv3

Answer:

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 used for Layer 2 multipoint services.

Protocols
LDP
BGP

RSVP

L2TPv3

NEW QUESTION: 64

Across a large WAN network, there will be new video traffic being distributed from a single source at any given time however, the video source might originate from different parts of the multicast domain at different times . Which multicast technology provides for this multicast traffic to be distributed with optimal path selection to the source?

- A. PIM sparse mode.
- B. Bidirectional PIM.
- C. Source Specific Multicast.
- D. Any source Multicast.

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

NEW QUESTION: 65

The network administrator of a branch office network has decided to deploy Unicast RPF at the access layer. He insists that the design must guarantee that all the packets arriving on the router interfaces are assigned to the same interface subnet.

Which mode of Unicast RPF would you recommend as the lead network designer?

- A. uRPF strict mode
- B. RPF feasible mode
- C. uRPF VRF mode
- D. uRPF loose mode

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

NEW QUESTION: 66

Which two functions of an NSSA an OSPF network design are true? (Choose two)

- A. It allows ASBRs to inject external routing information into the area.
- B. It overcomes issues with suboptimal routing when there are multiple exist points from 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: A,C ([LEAVE A REPLY](#))

NEW QUESTION: 67

How are community formats sent in SNMPv1 and SNMPv2c?

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 68

At which two networks points is route summarization supported? (Choose two)

- A. At OSPF area boundaries
- B. At OSPF virtual-link boundaries
- C. At EIGRP interface boundaries
- D. At EIGRP are boundaries
- E. At EIGRP AS boundaries
- F. At EIGRP stub interface boundaries

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 69

Which technology , implemented on aggregation -edge nodes at the aggregation layer, provides per -tenant isolation at Layer 3 , with separate dedicated per-tenant routing and forwarding tables on the inside interfaces of firewall contexts?

- A. VRF-lite
- B. VDC

C. VLAN

D. VXLAN

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

NEW QUESTION: 70

Which mechanism does OSPF use to prevent loops in an MPLS Layer 3 VPNS environment?

A. Down bit

B. Domain ID

C. Sham link

D. Routing bit

E. P-Bit

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

NEW QUESTION: 71

Which statement is true about connecting an IP multicast domain that is operating in PIM dense mode to a PIM sparse mode domain?

A. The connection can be made at any location in the network, as PIM sparse mode will inter-operate seamlessly with PIM dense mode.

B. The interconnection must be made at the rendezvous point of the PIM sparse mode domain.

C. PIM dense mode and sparse mode domains are not inter-operable and cannot be connected.

D. The connection can be made at any location in the network, but PIM sparse mode and PIM dense mode cannot inter-operate; IGMP must be used to provide the interconnection.

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

NEW QUESTION: 72

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: 73

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. Enable 802.1d on one data center, and 802.1w on the other.

B. Enable UDLD on the link between the data centers.

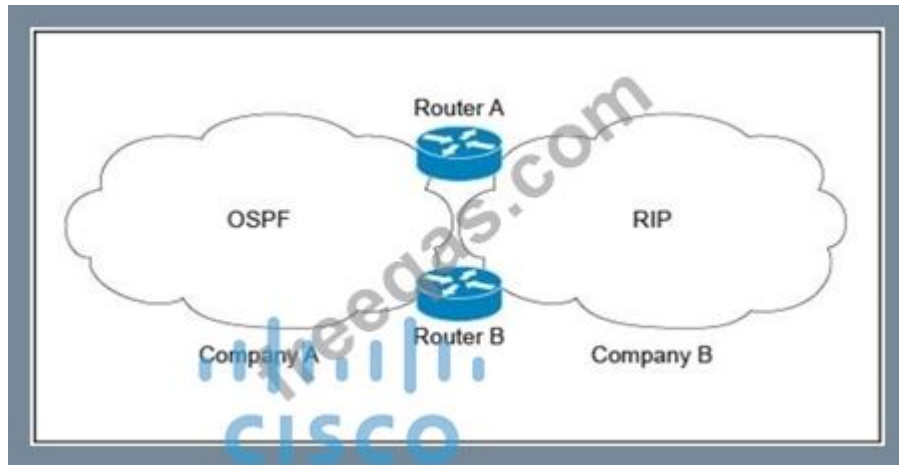
C. Ensure that the spanning tree diameter for one or more VLANs is not too large.

D. Enable root guard on the link between the data centers.

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

NEW QUESTION: 74

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. Enable mutual redistribution between OSPF and RIP on Router A and Router B using 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. Filter external routes on Router A and Router B based on route tags.

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

NEW QUESTION: 75

You have been hired by a startup company to provide optical services using MPLS-TP. Which three options describe reasons to use the MPLS-TP standard in your design? (Choose three.)

- A. MPLS-TP requires a routing protocol.
- B. MPLS-TP uses an IANA assigned label 13 for OAM.
- C. MPLS-TP uses Ethernet Y.1731 OAM.
- D. MPLS-TP is a newer packet transport technology that replaces SONET/SDH.
- E. MPLS-TP includes extensions to native MPLS OAM for fault detection, monitoring, and propagation.

Answer: (SHOW ANSWER)

NEW QUESTION: 76

LLQ is short for Low Latency Queue. VoIP traffic is mapped to (LLQ) over a slow speed link. Which kind of delay will seriously affect the quality of voice for this link?

- A. encoding delay
- B. serialization delay
- C. propagation delay
- D. packetization delay

Answer: B (LEAVE A REPLY)

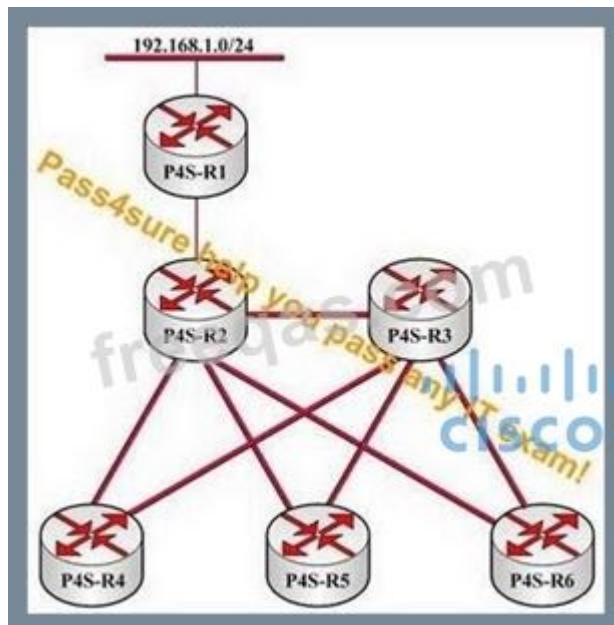
Section: (none)

Explanation/Reference:

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NEW QUESTION: 77

In the network presented in the following exhibit, all routers are configured to run EIGRP on all links. All packets transmitted during convergence are transmitted once (there are no dropped or retransmitted packets). What is the maximum number of queries P4S-R3 might receive for 192.168.1.0/24 if the link between P4S-R1 and P4S-R2 fails?



- A. four queries, one each from P4S-R2, P4S-R4, P4S-R5, and P4S-R6
- B. no queries, because there aren't any alternate paths for 192.168.1.0/24
- C. seven queries, one from P4S-R2 and two each from P4S-R4, P4S-R5, and P4S-R6
- D. one query, since the remote routers P4S-R4, P4S-R5, and P4S-R6 are natural stubs in EIGRP

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

Section: (none)

Explanation/Reference:

NEW QUESTION: 78

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

- A. Automotive
- B. Health and wellness
- C. Industrial Automation
- D. Smart Home

E. Sports and Fitness

F. Smart Cities

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 79

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

A. Global to local NAT translation is done before routing.

B. Global to local NAT translation is done after policy-based routing.

C. Local to global NAT translation is done before policy-based routing

D. Local to global NAT translation is done after routing

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

NEW QUESTION: 80

Which Designated Intermediate System selection option is valid when deploying IS-IS in a broadcast medium that connects two networking devices as a point-to-point network type?

A. The router with the highest loopback IP address is selected as the DIS.

B. There is no DIS selection on point-to-point network types.

C. The router with the lowest interface priority address is selected as the DIS.

D. The router with the lowest interface MAC address is selected as the DIS.

E. The router with the highest interface IP address is selected as the DIS.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 81

You are using iSCSI to transfer files between a 10 Gigabit Ethernet storage system and a 1 Gigabit Ethernet server. The performance is only approximately 700 Mb/s and output drops are occurring on the server switch port. Which action will improve performance in a cost- effective manner?

A. Enable the TCP Nagle algorithm on the receiver.

B. Change the protocol to CIFS.

C. Use a WRED random drop policy.

D. Increase the queue to at least 1 G

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 82

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

(Choose two.)

A. BFD can provide failure detection in less than one second.

B. BFD eliminates router protocol hello notification.

C. BFD can be used for all types of network interfaces.

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: ([SHOW ANSWER](#))

NEW QUESTION: 83

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?

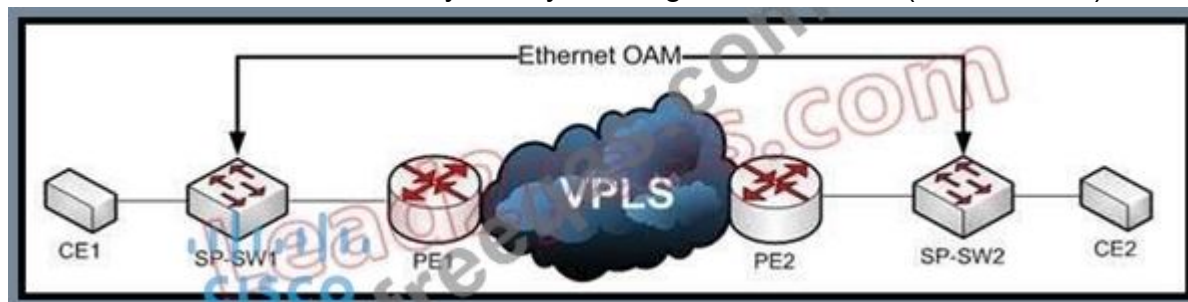
- A. The router separates packets based on certain characteristics by using NBAR.
- B. The router handles the overflow of traffic by using FIFO.
- C. The router forces inbound and outbound traffic to stay within a defined profile by using rate limiting.
- D. The router handles the possible build-up of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

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

WRED makes early detection of congestion possible and provides a means for handling multiple classes of traffic. WRED can selectively discard lower priority traffic when the router begins to experience congestion and provide differentiated performance characteristics for different classes of service. It also protects against global synchronization. Global synchronization occurs as waves of congestion crest, only to be followed by periods of time during which the transmission link is not used to capacity. For these reasons, WRED is useful on any output interface or router where congestion is expected to occur.

NEW QUESTION: 84

Refer to the exhibit. A service provider would like to use Ethernet OAM to detect end-to-end connectivity failures between SP-SW1 and SP-SW2. In which two of these ways can you design this solution? (Choose two.)



- A. Enable IEEE 802.1ag Connectivity Fault Management on the SP switches.
- B. Use upward maintenance endpoints on the SP switches.
- C. Cisco Discovery Protocol PDUs must be forwarded over the VPLS.
- D. Enable Y.1731 Connectivity Fault Management on the SP switches.
- E. E-LMI PDUs must be forwarded over VPLS.

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

NEW QUESTION: 85

When designing a network, which method can be used to control the exit point for traffic leaving an autonomous system, at the Layer 3 control plane?

- A. tuning the metric of the underlying IGP
- B. tuning the multi-exit discriminator
- C. setting the Site of Origin extended community
- D. prepending AS path

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

Section: Layer 3 ControlPlane

Explanation/Reference:

NEW QUESTION: 86

Which mechanism can you use to improve network performance over PPPoE, IPsec, and GRE networks?

- A. Simple Service Discovery Protocol
- B. Bidirectional Forwarding Detection
- C. Path MTU Discovery
- D. ICMP Router Discovery Protocol

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

NEW QUESTION: 87

A large enterprise network running IS-IS wants to deploy IGP traffic engineering, but they are concerned that the IS-IS default metrics are not flexible enough. Which feature must be enabled to provide traffic engineering with the minimum amount of changes?

- A. IS-IS Multitopology
- B. IS-IS DIS
- C. IS-IS Wide Metrics
- D. IS-IS Narrow Metrics

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

NEW QUESTION: 88

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

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

NEW QUESTION: 89

Your company experienced a number of network incidents that had a significant impact on business operations. Because a root cause cannot be identified, your CTO asks you to help the network management team implement the FCAPS framework. On which two areas would you provide guidance to the network management team? (Choose two.)

- A. accounting management
- B. change management
- C. service level management
- D. fault management

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

NEW QUESTION: 90

Which restriction prevents a designer from using a GDOI-based VPN to secure traffic that traverses the Internet?

- A. GDOI is less secure than traditional IPsec.
- B. The use of public addresses is not supported with GDOI.
- C. Network address translation functions interfere with tunnel header preservation.
- D. Enterprise host IP addresses are typically not routable.

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

NEW QUESTION: 91

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 three factors should you to consider when you adjust the timer values? (Choose three.)

- A. access bandwidth
- B. number of VRFs on the PE router
- C. service provider agreement to support tuned timers
- D. service provider scheduling of changes to the PE
- E. number of routes on the CE router

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

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NEW QUESTION: 92

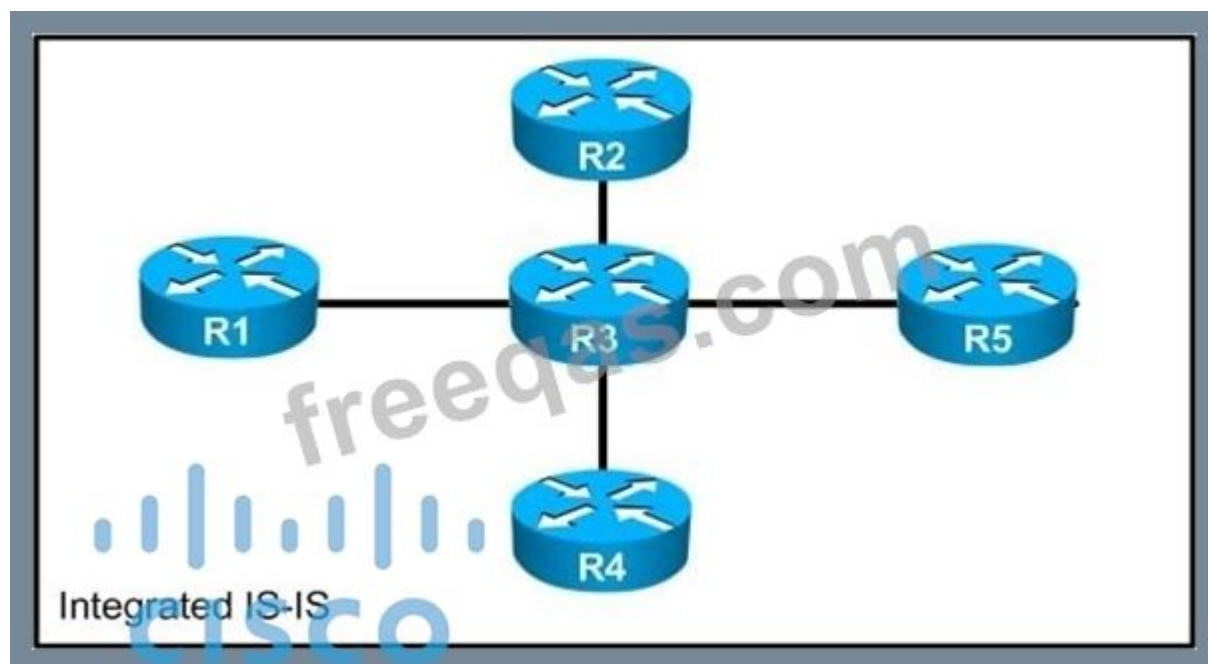
What are two key design principles when using a hierarchical core-distribution-access network model? (Choose two)

- A. A hierarchical network design model aids fault isolation
- B. The core layer is designed first, followed by the distribution layer and then the access layer
- C. The core layer controls access to resources for security
- D. A hierarchical network design facilitates changes
- E. The core layer provides server access in a small campus.

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

NEW QUESTION: 93

Refer to the exhibit.



You are developing a migration plan to enable IPv6 in your IPv4 network. Starting at R3 and assuming default IS-IS operations, what is likely to happen when you enable IPv6 routing on the link from R3 to R2?

- A. All routers except R2 are reachable through IPv4.
- B. Loopback reachability between all routers for IPv4 is lost.
- C. R2 receives an IPv6 default route from R3.
- D. Only R3 and R2 have IPv4 and IPv6 reachability.
- E. R3 advertises the link from R3-R2 to R1, R4 and R5 only.

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

NEW QUESTION: 94

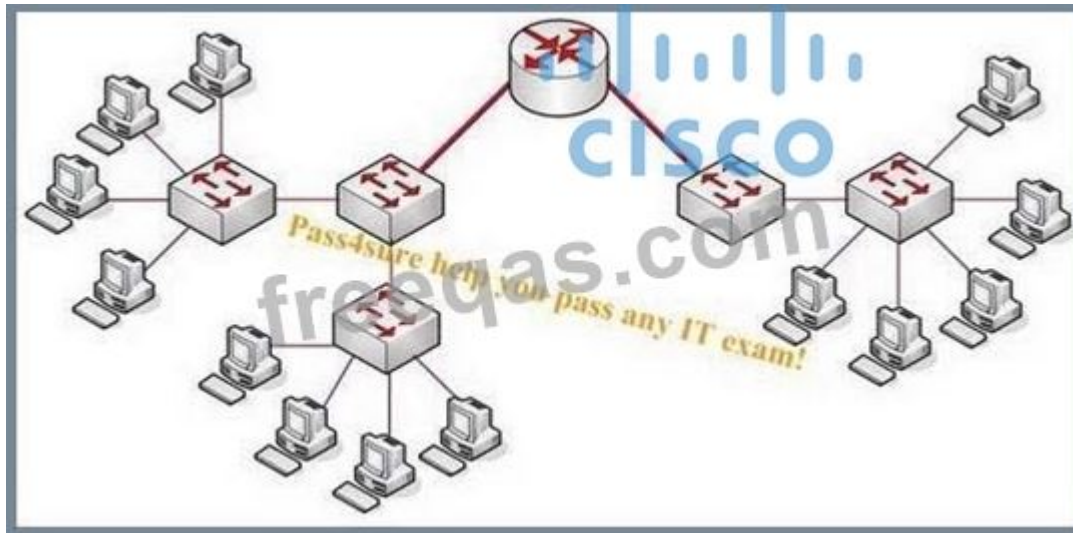
In a VPLS design solution, why would you use BGP instead of LDP for signaling?

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

Answer: (SHOW ANSWER)

NEW QUESTION: 95

How many broadcast segments are contained in this network according to the exhibit?



- A. 1
- B. 2
- C. 4
- D. 5

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

Section: (none)

Explanation/Reference:

NEW QUESTION: 96

A service provider has an MPLS VPN network in the United States. It recently bought another provider in India and wants to quickly integrate the newly acquired provider's network into the existing MPLS VPN infrastructure via the Internet.

Which two technologies can the service provider use to integrate its new network? (Choose two.)

- A. MPLS over GRE
- B. MPLS over IPv6
- C. MPLS over L2TPv3
- D. MPLS over IPsec
- E. MPLS based VPWS

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

NEW QUESTION: 97

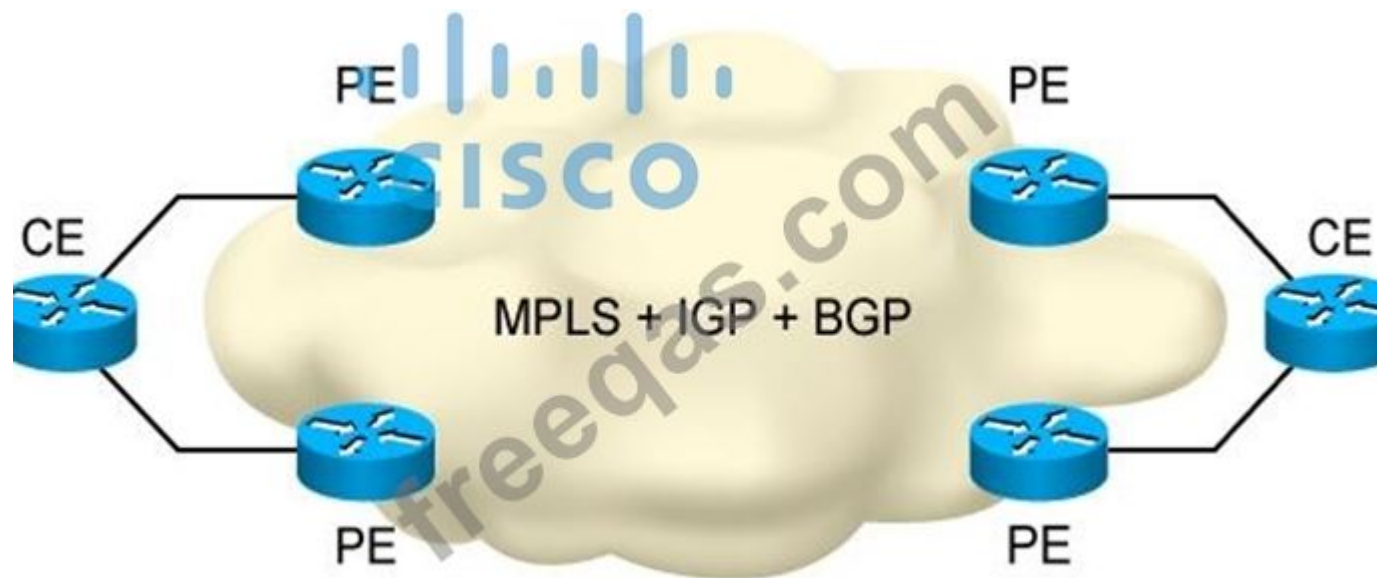
You are hired to design a solution that will improve network availability for users on a campus network with routed access. If the budget limits you to three components, which three components would you recommend in your design proposal? (Choose three.)

- A. standby route processors for SSO in the core routers
- B. standby route processors for SSO in the access routers
- C. replace copper links between devices with fiber links
- D. redundant power supplies in the access routers
- E. standby route processors for SSO in the distribution routers

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

NEW QUESTION: 98

Refer to the exhibit.



You are designing an MPLS network with Layer 3 VPNs, where the traffic path must be the same in both directions inside the MPLS network to ensure that symmetric routing occurs.

The sites are connected to two PE routers. Which two design considerations will allow you to achieve this symmetric routing? (Choose two.)

- A. The MPLS TE tunnels should be set up in both directions so that the same path is used.
- B. There should not be any equal cost paths for the IGP and the BGP inside the MPLS backbone, and both IGP and BGP routing should use the same path in both directions.
- C. There should not be any equal cost paths for IGP inside the MPLS backbone, the IGP routing should use the same path in both directions, and the BGP routing does not matter.
- D. There should not be any equal cost paths for BGP inside the MPLS backbone, the BGP routing should use the same path in both directions, and the IGP routing does not matter.
- E. When MPLS TE is used, the bidirectional TE tunnel automatically provides symmetric routing.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 99

You are redesigning an OSPF network that currently uses RFC 1918 Class A address space to optimize its convergence time. The entire network consists of point-to-point interfaces between routers. Which reason is the best reason to implement topology summarization in this network?

- A. to reduce link state database size
- B. to optimize RIB entry allocation
- C. to optimize CEF entry allocation
- D. to reduce the number of neighbor relationships

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

NEW QUESTION: 100

You are designing a network that will run EIGRP over a Metro Ethernet service that does not employ a link-loss technology. What will be the impact on convergence if there is a break in the end-to-end Layer 2 connectivity within the service provider network?

- A. The routers will immediately lose their adjacencies and converge.

- B. The switch ports connected to the router will go down and the routers will immediately converge.
 - C. The routing protocol will not converge until the hold timers have expired.
 - D. The VLAN on the switches will go inactive, the ports associated on the switch will go down, and the routers will immediately converge.
- Answer: C (LEAVE A REPLY)

NEW QUESTION: 101

Refer to the exhibit ACME Mining has four data centres in Santiago, Cape town, Mumbai, and Beijing, full-mesh connected via a 400 Mb/s EVP-LAN. They want to deploy a new mission-critical application with these requirements

- * cluster heartbeat 2 Mb/s continuous (250 KB/s)
- * cluster heartbeat one-way maximum latency 100 ms

These are the current ping tests results between the four data centers:

	Santiago	Cape Town	Mumbai	Beijing
Santiago		280 ms	378 ms	409 ms
Cape Town	280 ms	-	185 ms	445 ms
Mumbai	383 ms	176 ms	-	443 ms
Beijing	430 ms	448 ms	442 ms	-

Which hosting data center pair can host the new application?

- A. Cape Town and Mumbai
- B. Santiago and Beijing
- C. Cape Town and Beijing
- D. Santiago and Cape Town
- E. Santiago and Mumbai
- F. Mumbai and Beijing

Answer: A (LEAVE A REPLY)

NEW QUESTION: 102

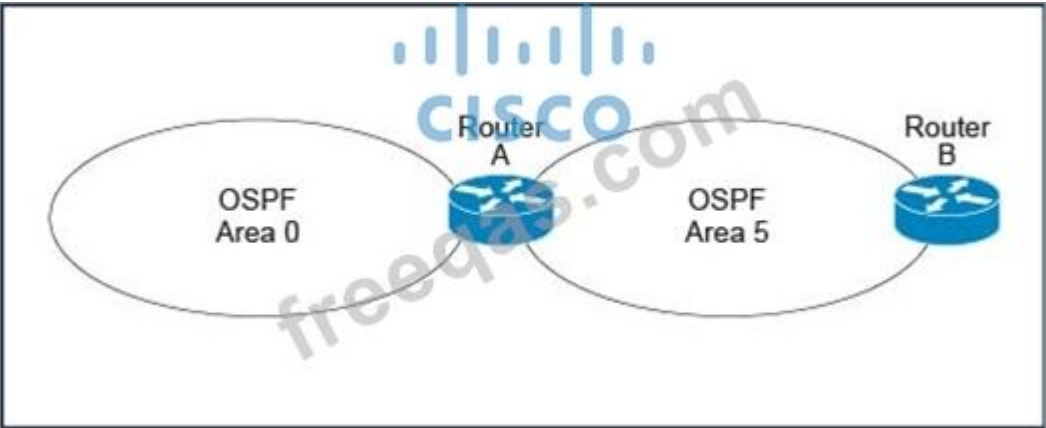
Which VPN technology supports multivendor interoperability on a network design?

- A. DMVPN
- B. IPsec VPN
- C. VTI
- D. Easy VPN

Answer: B (LEAVE A REPLY)

NEW QUESTION: 103

Refer to the exhibit.



A customer runs OSPF with Area 5 between its aggregation router and an internal router. When a network change occurs in the backbone, Area 5 starts having connectivity issues due to the SPF algorithm recalculating an abnormal number of times in Area 5. You are tasked to redesign this network to increase resiliency on the customer network with the caveat that Router B does not support the stub area. How can you accomplish this task?

- A. Set Area 5 to stubby at the ABR anyway.
- B. Increase the bandwidth on the connection between Router A and Router
- C. Create a virtual link to Area 0 from Router B to the ABR.
- D. Turn on LSA throttling on all devices in Area 5.
- E. Implement LSA filtering on the ABR, allowing summary routes and preventing more specific routes into Area 5.

Answer: E (LEAVE A REPLY)

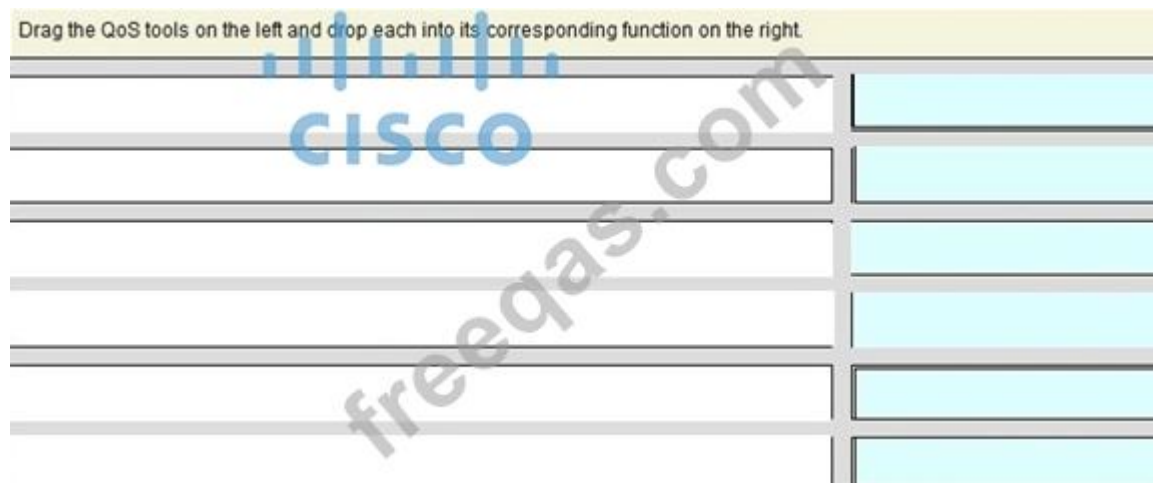
NEW QUESTION: 104

Select and Place:

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

Policing	Addresses congestion that is du
Marking	Drops traffic to ensure that t
Buffering	Allows drops to be minimized b
WRED	Allows for consisten
Shaping	Avoids congestion via s
ECN	Avoids congestion by end hosts re

Answer:



NEW QUESTION: 105

Which two statements about VXLAN are true? (Choose two)

- A. VXLAN is a Cisco proprietary solution
- B. VXLAN is an encapsulation method used to create a Layer 3 overlay network
- C. VXLAN can be used to enforce Layer 2 isolation in a multitenant infrastructure
- D. VXLAN overcomes the 802.1Q virtual LAN address space limitation
- E. VXLAN uses the Spanning Tree protocol for loop prevention

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 106

On a large-scale DMVPN network design, what are two DMVPN characteristics? (Choose two.)

- A. DMVPN supports dynamic partial- or full-mesh tunnels.
- B. DMVPN supports multicast replication at the hub.
- C. DMVPN supports non-IP protocols.
- D. DMVPN can interoperate with other vendors' equipment.

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 107

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: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

References:

NEW QUESTION: 108

Which two design considerations must be considered when introducing FCoE into an existing network?

(Choose two.)

- A.** Optical cabling is needed to transmit FCoE traffic between a server and its directly connected Ethernet switch
- B.** Twinaxial cabling can be used to transmit FCoE traffic between a server and its directly connected Ethernet switch, if it is less than 10 meters away
- C.** The FCoE QoS markings may overlap with call signaling QoS markings
- D.** All the servers in the data center must be retrofitted with Converged Network Adapters
- E.** The existing network must support a MTU of 3280 bytes

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

NEW QUESTION: 109

A financial services company runs HSRP at the edge of its network to allow for redundancy for the default gateway for its servers. The CTO of the company is concerned that the failover time for HSRP is too slow and a different mechanism should be used. The network engineer disagrees and believes that HSRP can provide the required fast down detection and failover for the edge of the network. Which option is the fastest down detection and failover solution for this HSRP environment?

- A.** Implement BF
- B.** Implement HSRP preemption.
- C.** Migrate from IEEE 802.1D to 802.1w.
- D.** Limit the Layer 2 broadcast domain.
- E.** Decrease the HSRP timers.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 110

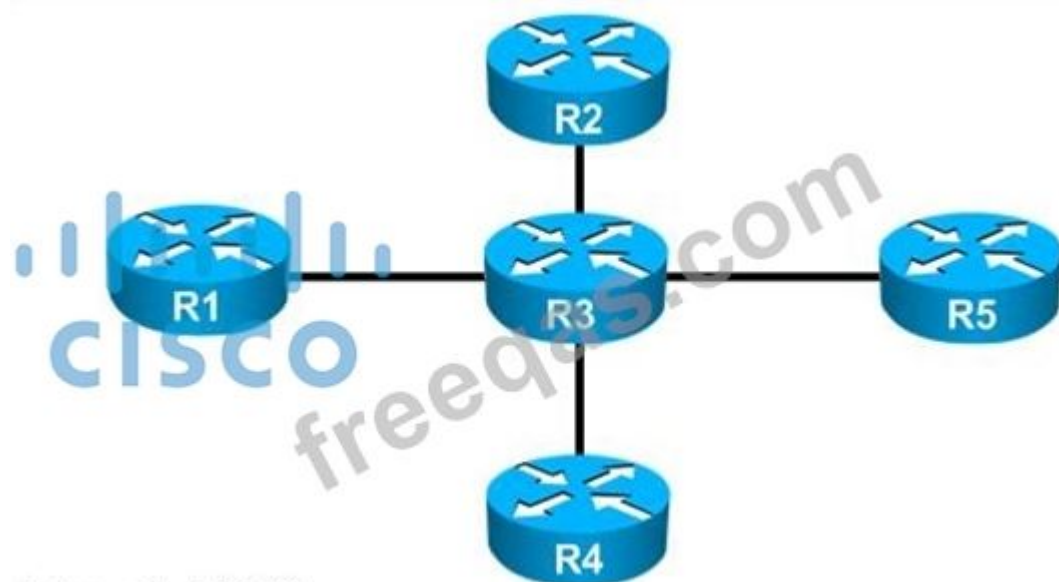
Which interconnectivity method offers the fastest convergence in the event of a unidirectional issue between three Layer 3 switches connected together with routed links in the same rack in a data center?

- A.** Fiber Ethernet connectivity with BFD enabled
- B.** Copper Ethernet connectivity with BFD enabled
- C.** Copper Ethernet connectivity with UDLD enabled
- D.** Fiber Ethernet connectivity with UDLD enabled

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

NEW QUESTION: 111

Refer to the exhibit.



Integrated IS-IS

You are developing a migration plan to enable IPv6 in your IPv4 network. Starting at R3 and assuming default IS-IS operations, what is likely to happen when you enable IPv6 routing on the link from R3 to R2?

- A. All routers except R2 are reachable through IPv4.
- B. R2 receives an IPv6 default route from R3.
- C. Loopback reachability between all routers for IPv4 is lost.
- D. Only R3 and R2 have IPv4 and IPv6 reachability.
- E. R3 advertises the link from R3-R2 to R1, R4 and R5 only.

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

NEW QUESTION: 112

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

(Choose two.)

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

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

NEW QUESTION: 113

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 eight CoS queues in the MPLS P router are remapped to the eight CoS queues.
- B.** 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.
- C.** Discard the traffic from the eight CoS queues that does not match the four CoS queues of the MPLS P routers.
- D.** The 8 CoS queues in the MPLS P router are remapped to four 4 flow-label queues.

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

Explanation/Reference:

Explanation:

NEW QUESTION: 114

Which description of the fundamental design differences between an IP-based network design and a SAN-based design is true?

- A.** An IP-based design has redundant connectivity in the fabric and high amounts of east-west traffic, whereas a SAN-based design uses redundancy from a dual-attached host which uses separate fabrics and has very little east-west traffic
- B.** An IP-based design has redundant connectivity in the fabric and very little east-west traffic, whereas a SAN-based design uses redundancy in the host, which uses separate fabrics and has high amounts of east-west traffic
- C.** An IP-based design has redundancy from the host and high amounts of east-west traffic, whereas a SAN-based design uses redundancy in the fabric and very little east-west traffic
- D.** An IP-based design has redundant connectivity in the fabric and high amounts of east-west traffic, whereas a SAN-based design uses zoning-based redundancy, which uses separate fabrics and has very little east-west traffic

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

NEW QUESTION: 115

Which advantage is of creating an in-band instead of an out-of-band management network?

- A.** separate transport equipment
- B.** lower equipment costs
- C.** protection of production traffic
- D.** protection of management traffic

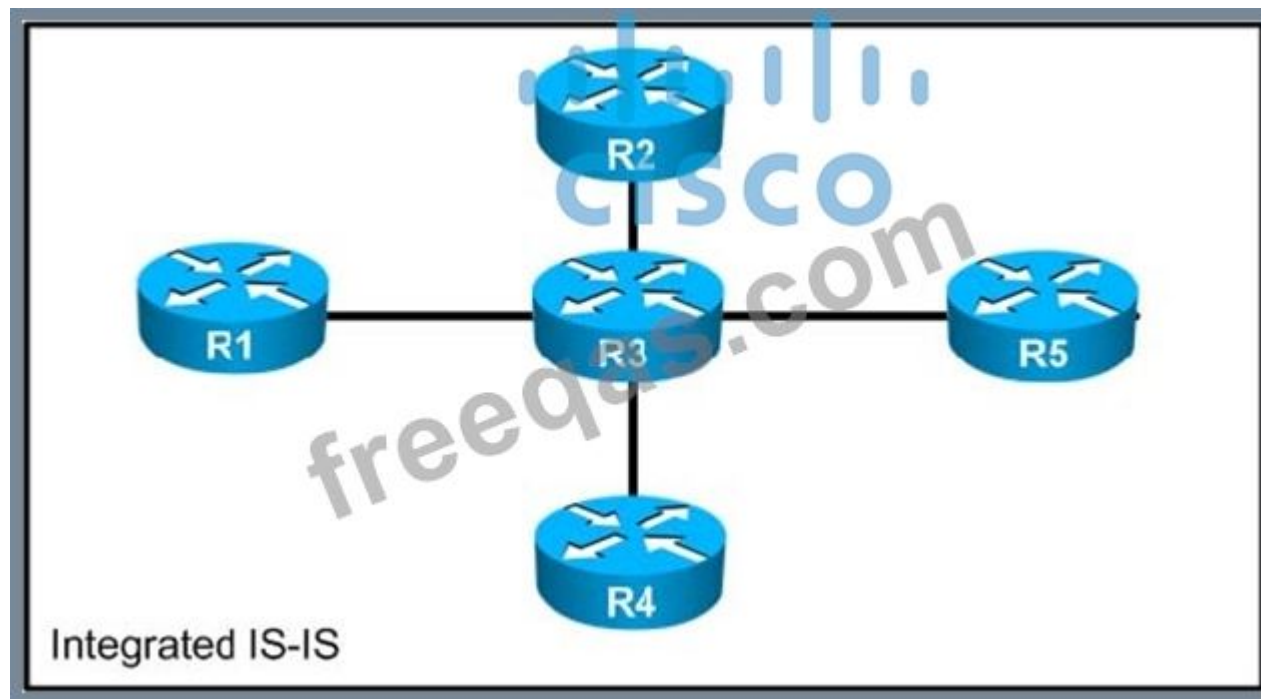
Answer: B ([LEAVE A REPLY](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 116

Refer to the exhibit.



You are developing a migration plan to enable IPv6 in your IPv4 network. Starting at R3 and assuming default IS-IS operations, what is likely to happen when you enable IPv6 routing on the link from R3 to R2?

- A. R3 advertises the link from R3-R2 to R1, R4 and R5 only.
- B. Loopback reachability between all routers for IPv4 is lost.
- C. Only R3 and R2 have IPv4 and IPv6 reachability.
- D. R2 receives an IPv6 default route from R3.
- E. All routers except R2 are reachable through IPv4.

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

NEW QUESTION: 117

A network is designed to use OSPF to reach eBGP peers. Which condition should be avoided so that the eBGP peers do not flap continuously in case of link failure?

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

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

NEW QUESTION: 118

Which two mechanisms ensure that a network design provides fast path failure detection? (Choose two.)

- A. IP Cisco Express Forwarding
- B. fast hello packets
- C. BFD
- D. UDLD

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

NEW QUESTION: 119

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

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

Explanation/Reference:

Explanation:

NEW QUESTION: 120

You are designing a core MPLS-based network with a single OSPF area with no external routes. Which two mechanisms can be used to improve convergence time during a failure? (Choose two.)

- A. incremental SPF
- B. graceful restart
- C. route filtering
- D. BFD

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

NEW QUESTION: 121

VARIATION 1



Refer to the exhibit. Service provider ACME Internet just added a 100 GB/s peering in Paris that it wants to use by default for outbound traffic to Big ISP. Which routing policy achieves the desired outcomes?

- A. Apply an import policy that filters longer prefixes than /24 in Brussels and Zurich
- B. Apply an import policy in New York that adds a Weight attribute to routes learned from Very Big ISP via Paris
- C. Use traffic engineering by injecting a preferred LOCAL_PREF attribute to routes advertised from Very Big ISP in Paris
- D. Apply an export policy in Paris by applying a MED or community attribute with a preference that Very Big ISP act upon

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

NEW QUESTION: 122

You need to redesign your NMS system so that it can collect information without causing adverse effects in the network, such as high CPU utilization on network devices and network instability. Which two options will minimize the impact of the trusted NMS polling your network in this situation? (Choose two.)

- A. Prevent polling of large tables through the use of SNMP OID restrictions.
- B. Unload unused MIBs from the network devices.
- C. Implement SNMP community restrictions that are associated with an ACL.
- D. Disable unused OIDs and MIBs on the NMS systems.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 123



Refer to the exhibit. You designed an IPv6 migration plan, and now you need to determine the impact on the existing IPv4 network. Assume default IS-IS parameters. What is likely to happen when you enable IPv6 routing on the link between R3 and R2, starting at R3?

- A. Only R3 and R2 have IPv4 and IPv6 reachability
- B. R3 advertises the link from R3-R2 to R1, R4 and R5 only
- C. All routers except R2 are reachable through IPv4
- D. Loopback reachability between all routers for IPv4 is lost
- E. R2 receives an Ipv6 default route from R3.

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

Explanation/Reference:

Explanation:

NEW QUESTION: 124

A company wants to prioritize voice traffic at their network edge and ensure that it has reserved some minimum bandwidth and treated with priority in the core. QoS is not currently implemented in the core, but MPLS with RSVP as the signaling protocol is already enabled. Which three actions do you recommend to optimize the voice traffic in the core with the minimal changes? (Choose three.)

- A.** Create GRE tunnels through the core and configure PBR to forward the voice traffic into those tunnels.
- B.** Enable LDP throughout the core and configure PHB queueing policies based on the MPLS EXP field.
- C.** Perform class-based tunnel selection to forward voice packets through MPLS tunnels in the core based on the DSCP value.
- D.** Create RSVP tunnels through the core, reserving a minimum bandwidth for voice traffic.
- E.** Configure PHB queueing policies on every core node based on the DSCP value.
- F.** Mark the voice traffic at the network edge with a specific DSCP value.

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

Section: Network Virtualization

Explanation/Reference:

NEW QUESTION: 125

Which openstack component implements role-based access control?

- A.** Neutron
- B.** Nova
- C.** Keystone
- D.** Horizon

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 126

Which roaming option will keep them on the same IP subnet when client traffic is being bridged through LAN interfaces on two WLCs?

- A.** Layer 1 intercontroller roaming
- B.** Layer 2 intercontroller roaming
- C.** Layer 3 intercontroller roaming
- D.** Layer 4 intercontroller roaming

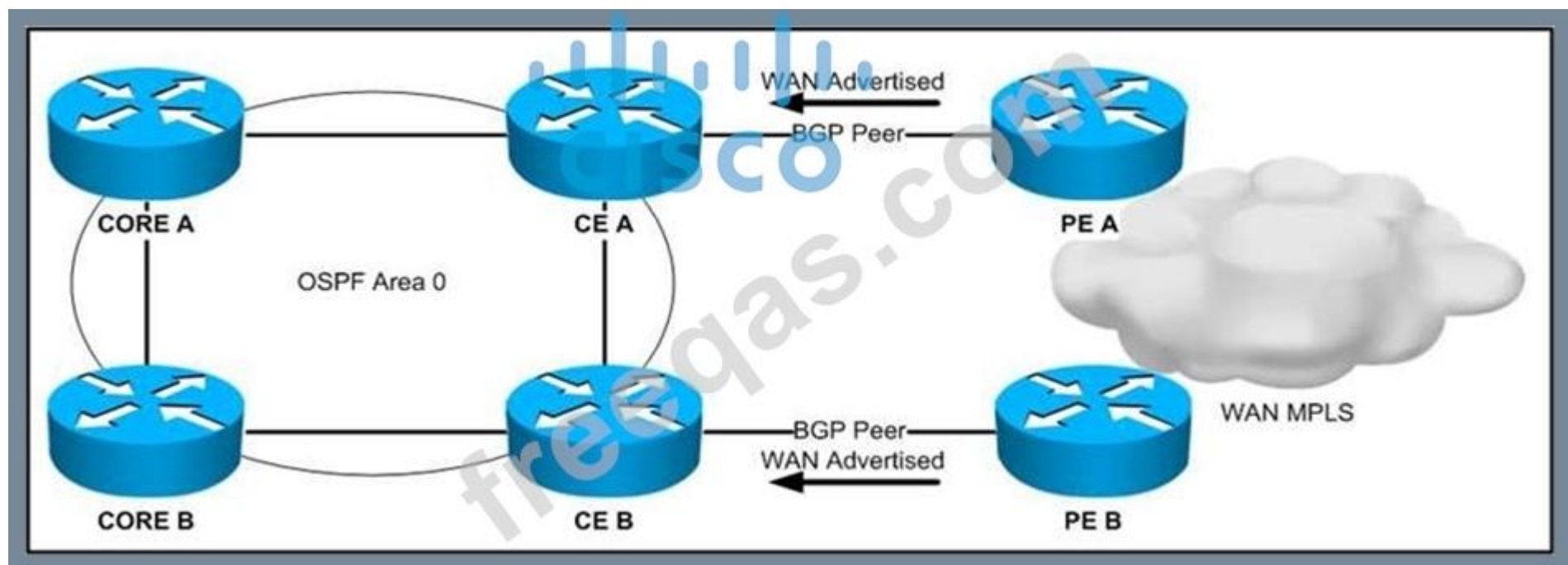
Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 127

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

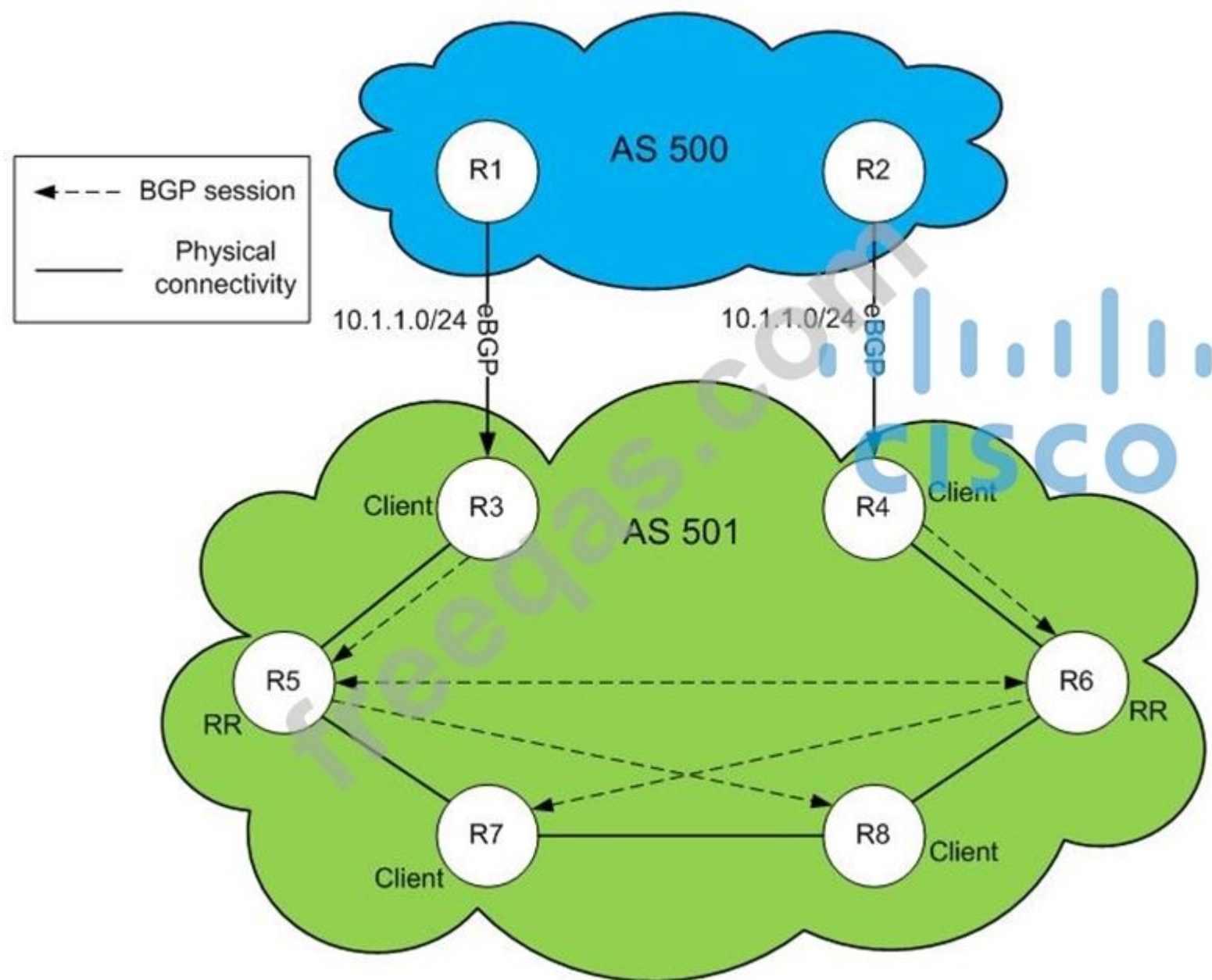
Answer: C ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 128

Refer to the exhibit.



In this BGP design, what is the next hop for 10.1.1.0/24 on R8 and R7?

- A. The next hop for 10.1.1.0/24 on R7 is R5 and the next hop for R8 is R6.
- B. The next hop for 10.1.1.0/24 on R7 is R8 and the next hop for R8 is R7.
- C. The next hop for 10.1.1.0/24 on R7 is R3 and the next hop for R8 is R4.
- D. The next hop for 10.1.1.0/24 on R7 is R6 and the next hop for R8 is R5.

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

NEW QUESTION: 129

What is the function of the Community String field defined in a trap PDU?

- A. enable reliable delivery of messages
- B. enable the routing of messages
- C. isolate the PDU within a defined region of the network
- D. allow authentication by management station

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

NEW QUESTION: 130

What are three drawbacks of VPLS? (Choose three.)

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

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

NEW QUESTION: 131

What is a design aspect regarding multicast transport for MPLS Layer 3 VPNs using the Rosen Draft implementation?

- A. Multicast traffic is forwarded over LDP or RSVP signaled LSPs.
- B. LDP is the multicast control plane protocol.
- C. Multicast traffic is forwarded over GRE tunnels.
- D. Using the MDT SAFI in BGP ensures that PIM can be disabled in the core.

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

NEW QUESTION: 132

Acme Costume Company is connecting its manufacturing facilities to its stores with a small point-to-multipoint Frame Relay IP WAN. Little growth is expected in the network infrastructure. Up to this point the company has been using a dial-on-demand network. Dropping WAN costs, however, have led them to consider using a high-speed WAN solution to improve access. Which two routing protocols could you deploy to support the new larger network while keeping costs down? (Choose two.)

- A. RIP
- B. RIPv2
- C. EIGRP
- D. OSPF

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

Section: (none)

Explanation/Reference:

NEW QUESTION: 133

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

F. heat dissipation

Answer: ([SHOW ANSWER](#))

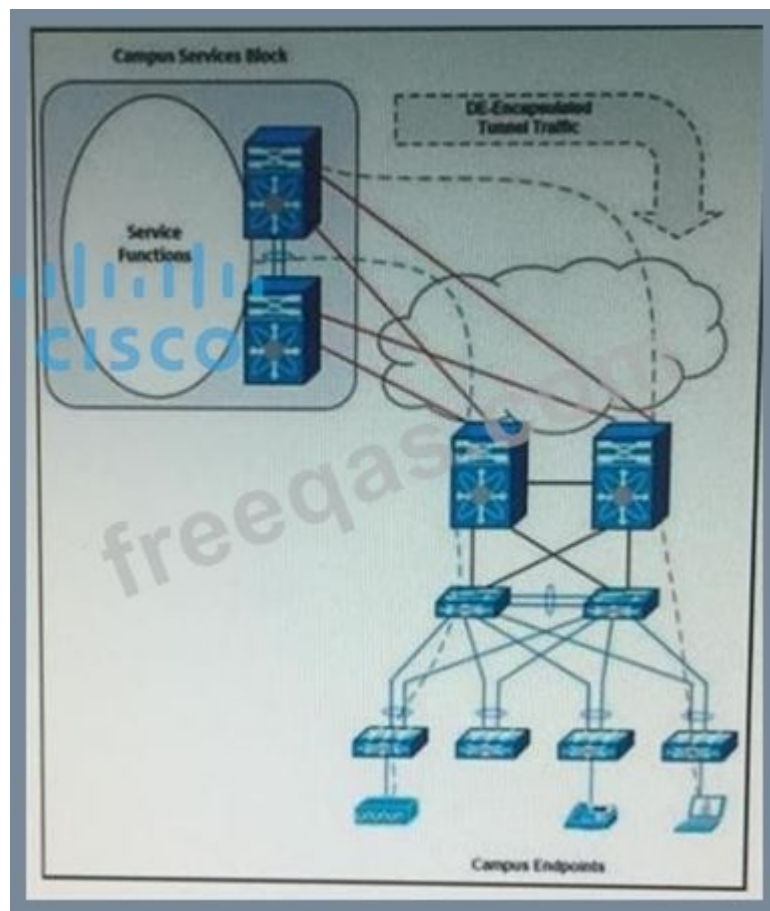
NEW QUESTION: 134

A network designer has provisioned a router to use IPsec to encrypt the traffic over a GRE tunnel going to a web server at a remote location. From the router, the network designer can ping the web server, although the users in the office comment that they are unable to reach it. (Note: The DF bit is not set.) Which aspect should be changed in the design of the virtual connection?

- A. MTU size on the GRE tunnel
- B. IP addresses of the GRE tunnel endpoints
- C. encapsulation of the GRE tunnel
- D. IPsec configuration

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

NEW QUESTION: 135



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.

You 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. GRE tunnel to the local internet edge
- B. BGP route reflectors
- C. GET VPN key server

- D. policy gateways
- E. IPv6 ISATAP tunnel termination point

Answer: A,E (LEAVE A REPLY)

NEW QUESTION: 136

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

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).

Full SPF Calculation

Partial SPF Calculation

Answer:

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).

Full SPF Calculation

LSA types 1, 2, 3, 4, 5, and 7 are processed.

the shortest path topology tree is recomputed.

Triggered by a change in a LSA Type 1 (Router) or a LSA Type 2 (Network).

Partial SPF Calculation

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.

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).

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NEW QUESTION: 137

DRAG DROP

Drag the design requirements on the left to the appropriate tool and protocols on the right. Not all tools and protocols will be used.

chargeback billing

event collection and correlation

IP applications quality assurance

average link utilization monitoring

VoIP call quality monitoring

NetFlow

IP SLA

SNMP

Syslog

Answer:

Drag the design requirements on the left to the appropriate tool and protocols on the right. Not all tools and protocols will be used.

chargeback billing

event collection and correlation

IP applications quality assurance

average link utilization monitoring

VoIP call quality monitoring

chargeback billing

IP applications quality assurance

average link utilization monitoring

event collection and correlation

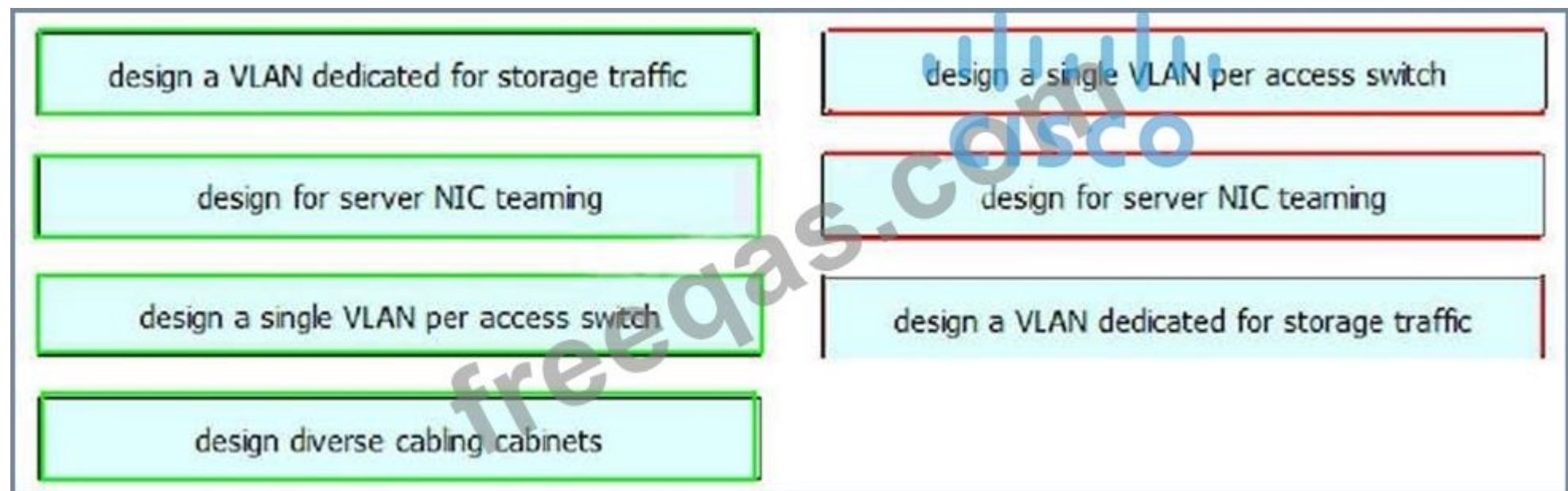
NEW QUESTION: 138

DRAG DROP

You are designing a new data center network. Drag and drop new data center requirements on the left into the appropriate design principle on the right.



Answer:



NEW QUESTION: 139

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 140

Which purpose of a dynamically created tunnel interface on the design of IPv6 multicast services is true?

- A. transport of all IPv6 multicast traffic
- B. first-Hop router registration to the RP
- C. multicast source registration to the RP
- D. multicast client registration to the RP

Answer: A (LEAVE A REPLY)

Explanation

<https://tools.ietf.org/html/rfc7450>

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipmulti_pim/configuration/xr-16-5/imc-pim-xr-16-5-book/im

NEW QUESTION: 141

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

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).

Full SPF Calculation

Partial SPF Calculation

Answer:

Triggered by a LSA Type 3 (Inter area), all LSA Type 3 that contribute to the certain destination are processed.

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Full SPF Calculation

LSA types 1, 2, 3, 4, 5, and 7 are processed.

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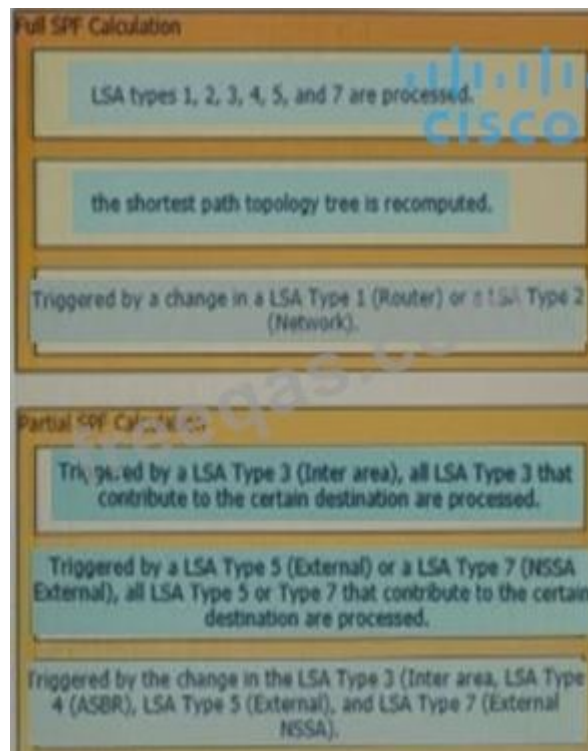
Triggered by a change in a LSA Type 1 (Router) or a LSA Type 2 (Network).

Partial SPF Calculation

Triggered by a LSA Type 3 (Inter area), all LSA Type 3 that contribute to the certain destination are processed.

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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).



NEW QUESTION: 142

Which two design solutions ensure sub 50 msec of the convergence time after a link failure in the network? (Choose two)

- A. MPLS-FRR
- B. IGP fast hello
- C. minimal BGP scan time
- D. BFD
- E. Ti-LFA

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

NEW QUESTION: 143

You are asked to provide a design that allows full dynamic routing updates between two networks: one network runs OSPF, and the other network runs EIGRP. Two links with an EIGRP neighbor relationship are provided to connect the networks and exchange routes. You are considering the use of routing loops.

Which route-filtering method should you recommend, in order to prevent loops with the least amount of reconfiguration effort?

- A. distribute lists
- B. offset lists
- C. route filtering
- D. route tagging

Answer: ([SHOW ANSWER](#))

Section: Layer 3 ControlPlane

Explanation/Reference:

NEW QUESTION: 144

Which solution provides an active/active alternative to spanning-tree?

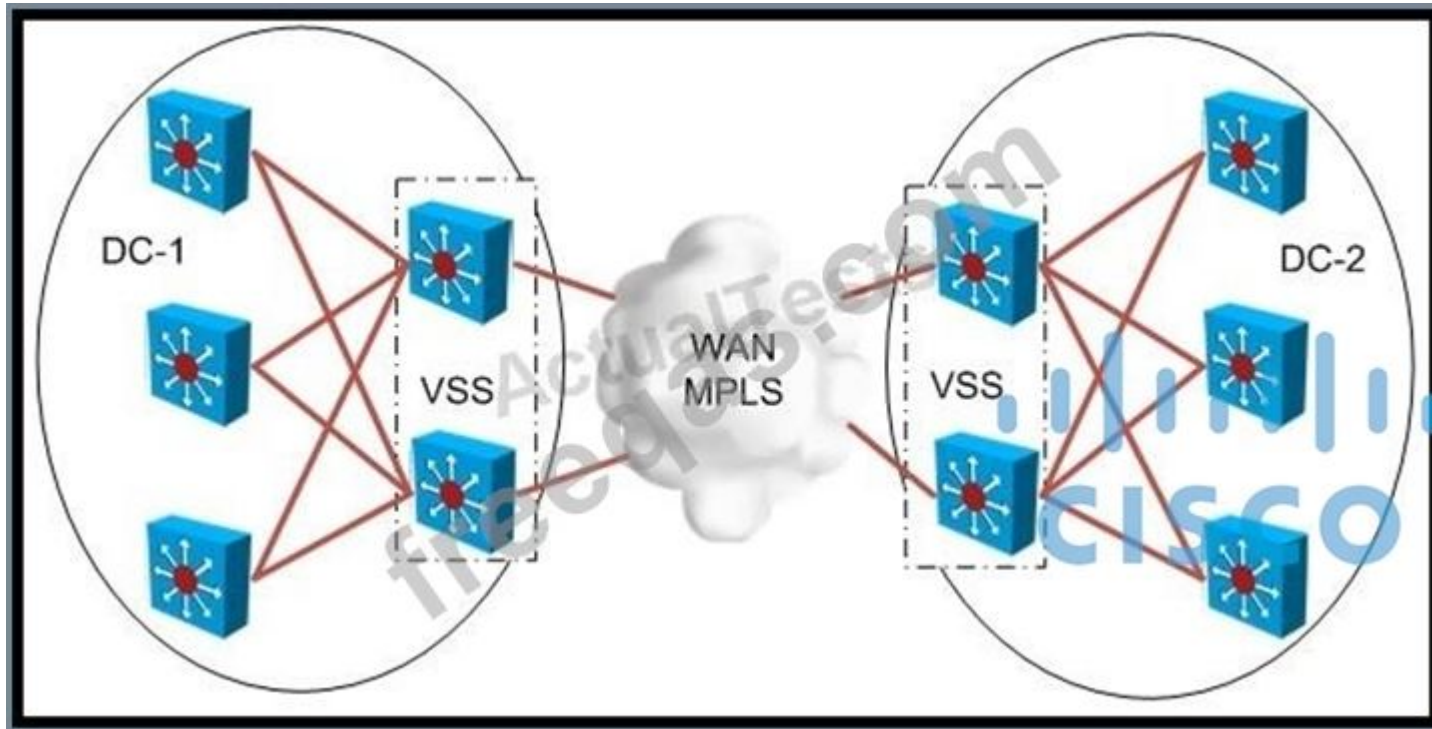
- A. RSTP
- B. TRILL
- C. MST
- D. Ethernet Ring Protection Switching

Answer: ([SHOW ANSWER](#))

Section: Evolving Technologies

NEW QUESTION: 145

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: 146

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: 147

Which option is true about routing control while using routing protocols in a DMVPN network (or any GRE- over-IPsec network)?

- A.** Routing of the data plane traffic should be carried out by means of the GRE tunnel and a separate routing instance should be used to handle routing of the crypto endpoints.
- B.** The control plane traffic for the crypto endpoints should be routed through the GRE tunnel; the control plane traffic for the data plane traffic should travel via the transport network.
- C.** If the network is a private MPLS network, the routing for the data plane traffic and the crypto endpoints should be run outside of the GRE tunnel.
- D.** The routing used to establish the crypto endpoints should include information for the data networks behind the endpoints.

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 148

You have been hired by a startup company to provide optical services using MPLS-TP.

Which three options describe reasons to use the MPLS-TP standard in your design?

(Choose three.)

- A.** MPLS-TP is a newer packet transport technology that replaces SONET/SDH.

B. MPLS-TP uses Ethernet Y.1731 OAM.

C. MPLS-TP includes extensions to native MPLS OAM for fault detection, monitoring, and propagation.

D. MPLS-TP uses an IANA assigned label 13 for OAM.

E. MPLS-TP requires a routing protocol.

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

NEW QUESTION: 149

Which VPN management feature would be considered to ensure that the network had the least disruption of service when making topology changes?

A. dynamic reconfiguration

B. path MTU discovery

C. auto setup

D. remote management

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

Section: (none)

Explanation/Reference:

NEW QUESTION: 150

What is the main reason to recommend NetFlow?

A. When statistics for capacity planning is needed.

B. When the network consists of multivendor devices

C. When granular reporting capabilities are needed

D. When information about network device utilization is needed

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

NEW QUESTION: 151

You are designing a GET VPN solution consisting of 30 group members. Which measure helps protect encrypted user traffic from replay attacks?

A. RSA-encrypted nonce

B. nonce payload

C. time-based anti-replay

D. counter based anti-replay

E. digital certificates

Answer: ([SHOW ANSWER](#))

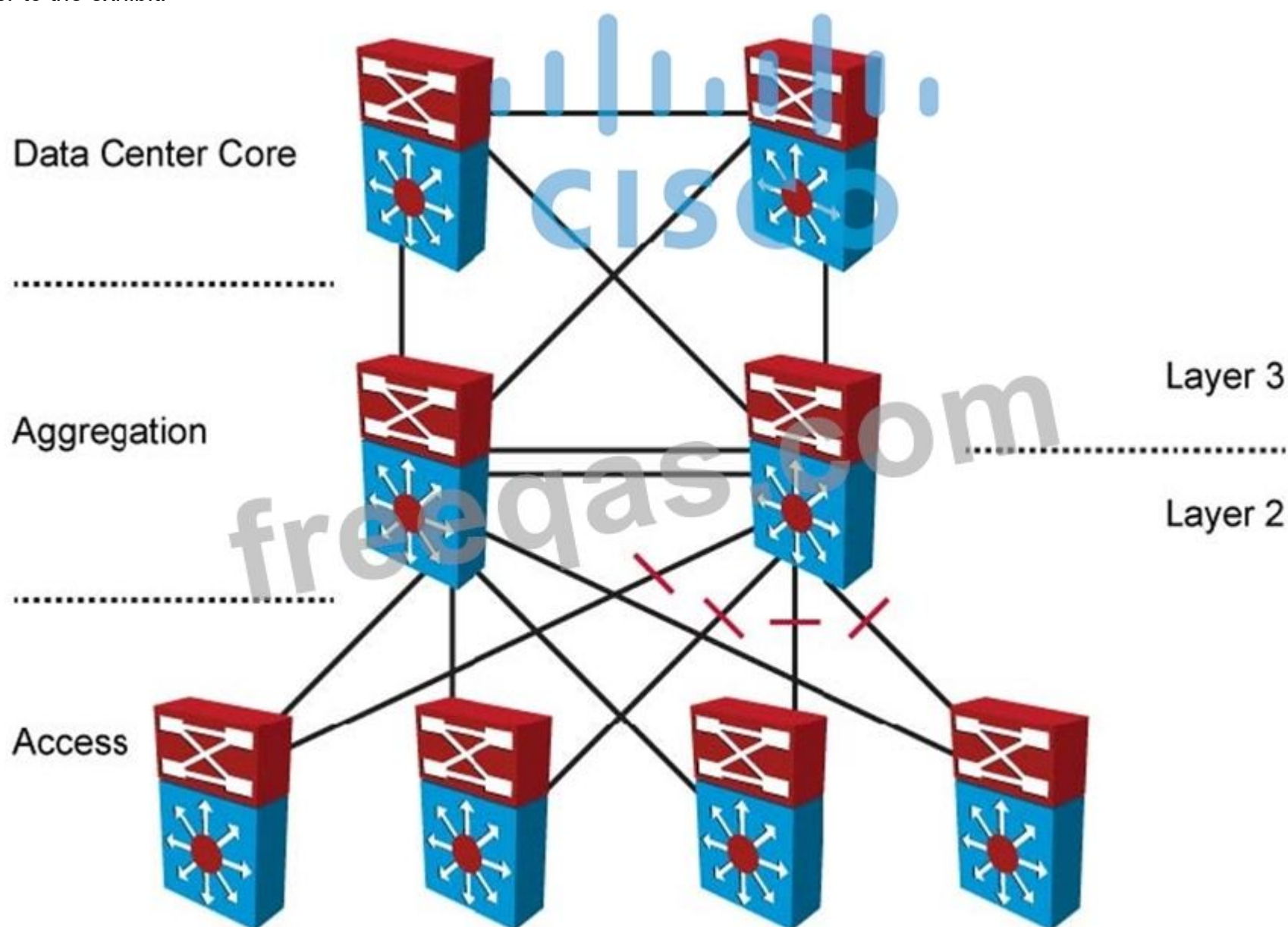
Because we use the group SA in GETVPN, counter-based anti-replay is ineffective. A new method to guard against replay-attacks is required. GET-VPN uses time-based anti-replay (TBAR), which is based on a pseudo-time clock that is maintained on the KS. An advantage of using pseudotime for TBAR is that there is no need to synchronize time on all the GETVPN devices using NTP.

https://www.cisco.com/c/dam/en/us/products/collateral/security/group-encrypted-transport-vpn/GETVPN_DIG_version_2_0_External.pdf

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NEW QUESTION: 152

Refer to the exhibit.



Your company designed a network to allow server VLANs to span all access switches in a data center. In the design, Layer 3 VLAN interfaces and HSRP are configured on the aggregation switches. Which two features will improve STP stability within the network design? (Choose two.)

- A. BPDU guard on access ports
- B. Root guard on access ports
- C. Edge port on access ports
- D. Root guard on the aggregation switch downlinks toward access switches

- E. BPDU guard on the aggregation switch downlinks toward access switches
- F. Access switch pairs are explicitly determined to be root and backup root bridges

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

NEW QUESTION: 153

A green data center is being deployed and a design requirement is to be able to readily scale server virtualization. Which IETF standard technology can provide this requirement?

- A. Transparent Interconnection of Lots of Links
- B. fabric path
- C. data center bridging
- D. unified fabric

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

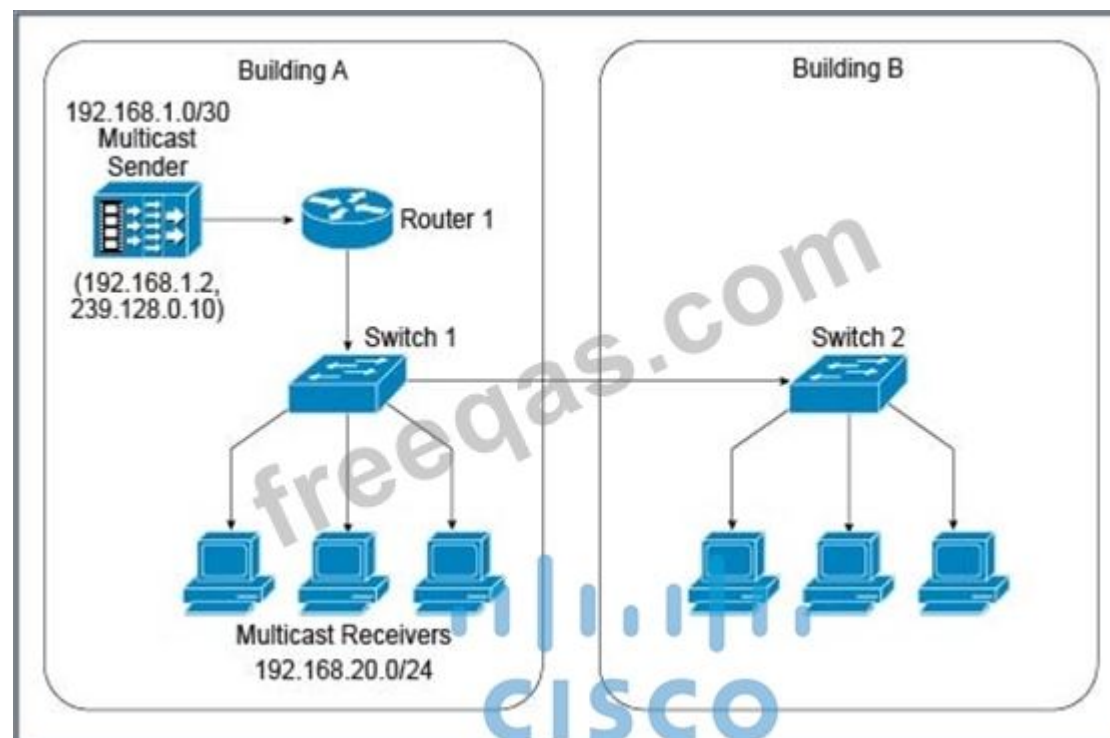
Explanation/Reference:

Explanation:

48

NEW QUESTION: 154

Refer to the exhibit.



A new IPv4 multicast-based video-streaming service is being provisioned. During the design-validation tests, you realize that the link between the two buildings is carrying multicast traffic even when there are no receivers connected to the switch in Building B and despite IGMP snooping being enabled on both Layer 2 switches and IGMPv2 runs on the hosts. Which design change will prevent the multicast traffic from being unnecessarily flooded throughout the campus network?

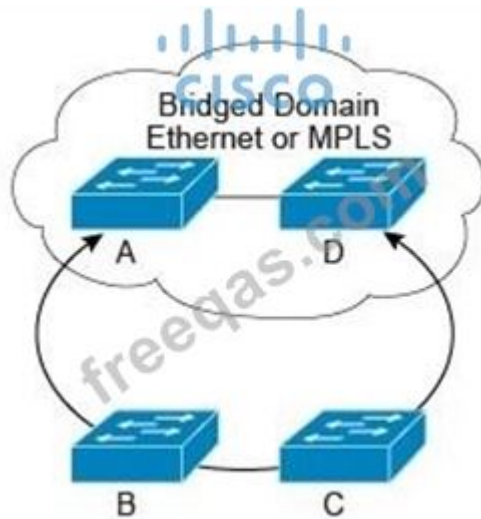
- A. Use static Layer 2 MAC forwarding entries on Switch 1.
- B. Enable multicast storm control on the link between Switch 1 and Switch 2.
- C. Enable PIM snooping on both Layer 2 switches.

- D. Change the IPv4 multicast group address such that it excludes the usage of link-local MAC addresses.
- E. Ensure that Switch 1 is an IGMP querier.

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

NEW QUESTION: 155

Refer to the exhibit.



Which two options provide the best loop protection in this topology, regardless of a bridged domain configuration? (Choose two.)

- A. REP on all switches
- B. 8032 on ring A-B-C-D
- C. MST on all switches
- D. BPDU guard on Switch A and Switch D
- E. PVRSTP on all switches

Answer: (SHOW ANSWER)

NEW QUESTION: 156

An MPLS service provider is offering a standard EoMPLS-based VPLS service to

Customer A, providing Layer 2 connectivity between a central site and approximately 100 remote sites. Customer A wants to use the VPLS network to carry its internal multicast video feeds, which are sourced at the central site and consist of 20 groups at 5 Mb/s each.

Which service provider recommendation is the most scalable?

- A. Replace VPLS with a Layer 3 MVPN solution to carry the streams between sites.
- B. EoMPLS-based VPLS already carries multicast traffic in a scalable manner.
- C. Replicate the multicast traffic on the P routers.
- D. Use GRE tunnels to carry the streams between sites.

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

NEW QUESTION: 157

A network designer wants to improve a company network design due to multiple network crashes. Which technology would allow for the restore of a network connection without informing the Layer 3 protocol?

- A. Bidirectional Forwarding Detection

- B. automatic protection switching
- C. UniDirectional Link Detection
- D. Ethernet OAM

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 158

A customer has a DMVPN network with EIGRP as the overlay protocol. EIGRP timers cannot be shortened, yet the customer requires the detection of lost connectivity between neighbors in less than three seconds.

Which action achieves this requirement?

- A. Deploy IPsec dead peer detection
- B. Enable BFD
- C. Adjust the GRE keepalive timers
- D. Adjust the NHRP timers.

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

NEW QUESTION: 159

What is the definition of the ITIL framework?

- A. a series of tools for process improvement that uses statistical methods to reduce defects in processes and manufacturing
- B. a framework for enterprise IP Address Management (IPAM) based on the IANA trusted IP lease allocation scheme
- 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 five-volume framework for service management that covers design, transition, and delivery of service, and from which the ISO 20000 was developed
- E. a framework for enterprise architecture that provides a comprehensive approach for designing, planning, implementing, and governing an enterprise information architecture

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

NEW QUESTION: 160

What are two reasons to 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 requires multipoint Ethernet LAN service.
- C. The VPN solution does not contain MPLS on the network core.
- D. The VPN solution should be industry-standard.

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

NEW QUESTION: 161

You are designing a solution to eliminate the risk of high CPU utilization on a core network composed of CRS-1 devices. Which option would eliminate the risk of high CPU utilization across the network?

- A. Use Local Packet Transport Services (LPTS) to manage hardware SNMP flow rate.

- B. Use the in-band control plane policy feature to reduce the SNMP flow rate.
- C. Use the control plane policy feature and reduce SNMP flow rate.
- D. Use control-plane management-plane in-band and reduce the SNMP flow rate.
- E. Use the control-plane management-plane out-of-band feature to reduce the SNMP flow rate.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 162

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 163

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

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

NEW QUESTION: 164

When creating a network design, which one of these options provides for basic Layer 2 client isolation to prevent broadcast traffic exposure?

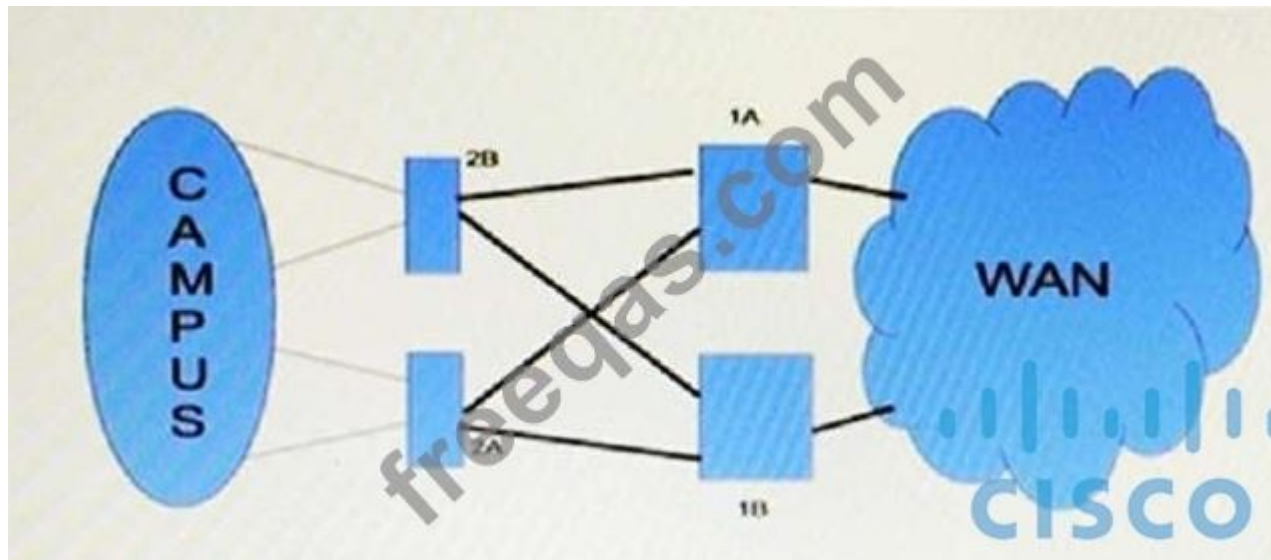
- A. SVI
- B. VLAN
- C. routed port
- D. edge port

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

Explanation/Reference:

Explanation:

NEW QUESTION: 165



Refer to the exhibit. How should you redesign this network running BGP to improve availability of the routers A1 and 1B at the core site?

- A. Deploy BGP PIC.
- B. Enable Graceful Restart.
- C. Use link bundles over multiple slots.
- D. Create a multichassis system with the two routers.

Answer: D (LEAVE A REPLY)

Section: Layer 3 ControlPlane

Explanation/Reference:

NEW QUESTION: 166

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. Shared explicit protection.
- C. 1:1 protection.
- D. Detour LSPs.

Answer: A (LEAVE A REPLY)

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NEW QUESTION: 167

When adding an IPSec headend termination device to your network design, which two performance indicators are the most accurate to determine device scalability? (Choose two.)

- A. CPU capabilities

- B. bandwidth capabilities
- C. packets per second capabilities
- D. maximum tunnel termination capabilities

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

Explanation/Reference:

42

NEW QUESTION: 168

Refer to the exhibit. A customer runs EIGRP and has remote routers with EIGRP stub configured. The customer tests the redundancy by shutting down the B link, and surprisingly the 10.0.0.0/24 subnet is no longer accessed by the hub router. Which action resolves this issue?

- A. Wait for a few seconds, after the EIGRP dead timer expired between R2 and hub, the 10.0 .0.0/24 can automatically be accessed by the hub router via the R1 router
- B. Remove summarization from all routers
- C. Remove the EIGRP stub option, because it is not possible to configure two EIGRP stub routers on the same site
- D. Apply the Stub Route Leaking feature

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 169

Which two fast reroute technologies provide the highest level of protected path converge in a ring topology? (Choose two)

- A. Per-prefix LFA
- B. Remote LFA
- C. Per-link LFA
- D. Automatic protection switching
- E. MPLS TE FRR

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 170

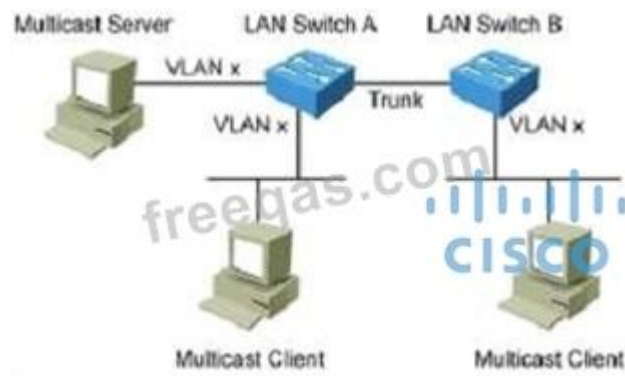
What is the primary requirement for deploying OSPF graceful restart on a router?

- A. The adjacent routers must be enabled to forward traffic during the failure.
- B. The adjacent router must support graceful restart helper mode.
- C. Aggressive routing protocol hellos and keepalives must be running on the router.
- D. Some form of fast Layer 2 down detection must be enabled on the router.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 171

Refer to the exhibit. Which two features can be used to make multicast work in this situation? (Choose two.)



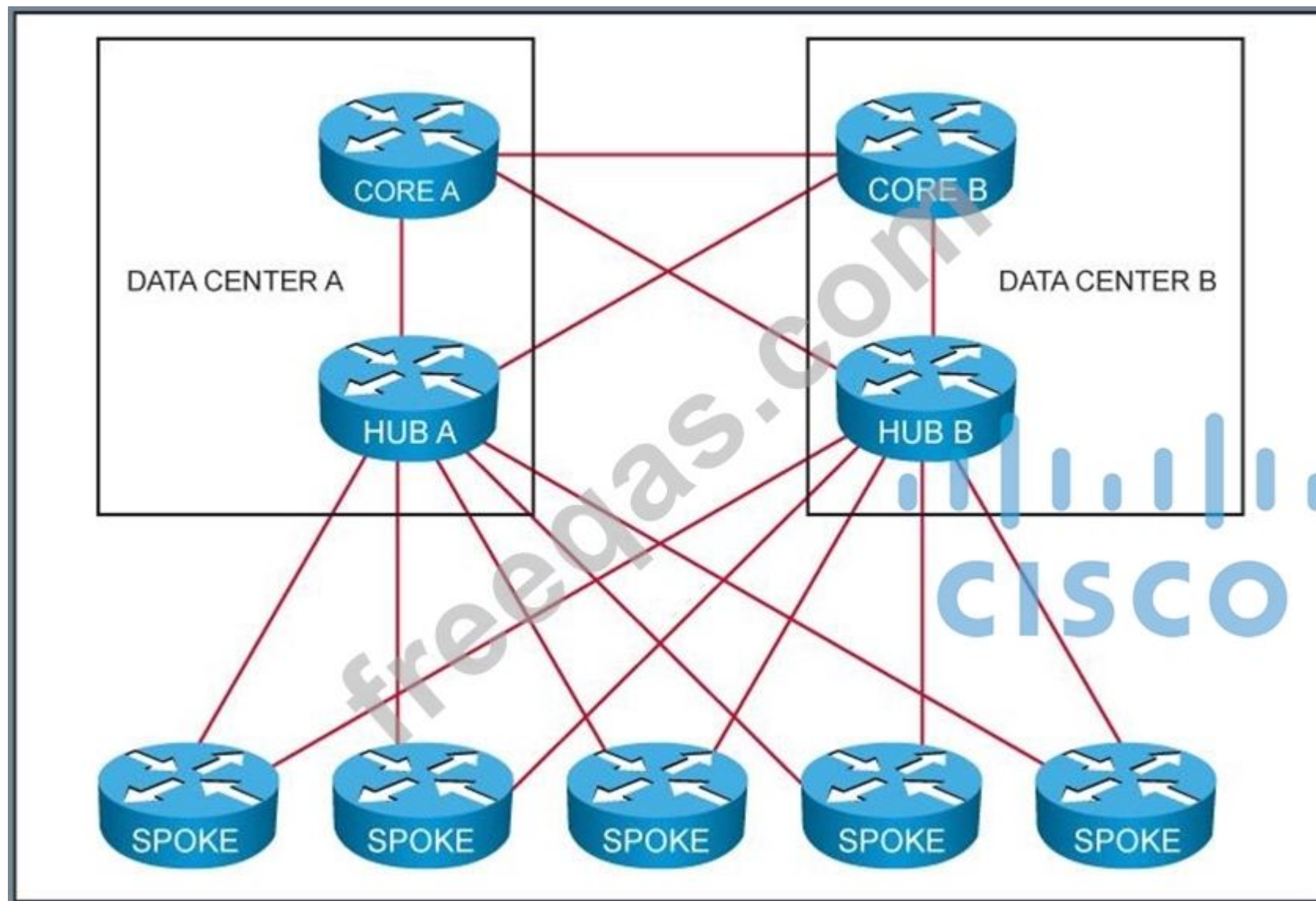
- A. Disable IGMP snooping on both switches
- B. Disable the IGMP query election process
- C. Enable the IGMP querier feature on LAN switch A
- D. Configure a static MAC entry for the multicast server
- E. Disable PIM snooping on both switches

Answer: ([SHOW ANSWER](#))

Section: Evolving Technologies

NEW QUESTION: 172

Refer to the exhibit.



You must ensure that both core A and core B devices have only the minimum information required for reaching the spoke routers yet maintain full reachability during network failures.

Which of the following design solutions accomplishes these requirements?

- A. Route summarization, with specific route leaking on hubs A and B
- B. Implement ODR for hub-to-spoke routing.
- C. Implement PfR enhancements on hubs A and B.
- D. Route summarization, with GRE tunnel on hubs A and B

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

NEW QUESTION: 173

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 VoIP, in order to reduce the cost of international calls. What are the two primary concerns when implementing this migration? (Choose two)

- A. SRST
- B. Available bandwidth
- C. Jitter
- D. MTU

E. Call routing design

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

NEW QUESTION: 174

What is the most effective way to improve BGP convergence in the event that a point-to-point link, over which an EBGP session is running, fails?

A. configure EBGP fast external fallover

B. reduce the keepalive timer to the minimum value allowed

C. use BGP multihop

D. enable BGP graceful restart

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

NEW QUESTION: 175

You are designing the QoS features for a large enterprise network that includes DMVPN. When would you need to configure QoS preclassify?

A. when you are marking packets with the TOS bits

B. when your service provider requires the DSCP bits be set

C. when you are marking packets with the DSCP bits

D. when the QoS policy cannot be based on DSCP ToS bits

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

NEW QUESTION: 176

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: 177

You are designing an optical network. Your goal is to ensure that your design contains the highest degree of resiliency. In which two ways will you leverage a wavelength-switched optical network solution in your network design? (Choose two.)

A. a wavelength-switched optical network guarantees restoration based strictly on the shortest path available

B. a wavelength-switched optical network takes linear and nonlinear optical impairment calculation into account

C. a wavelength-switched optical network assigns routing and wavelength information

D. a wavelength-switched optical network eliminates the need for dispersion compensating units in a network

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

NEW QUESTION: 178



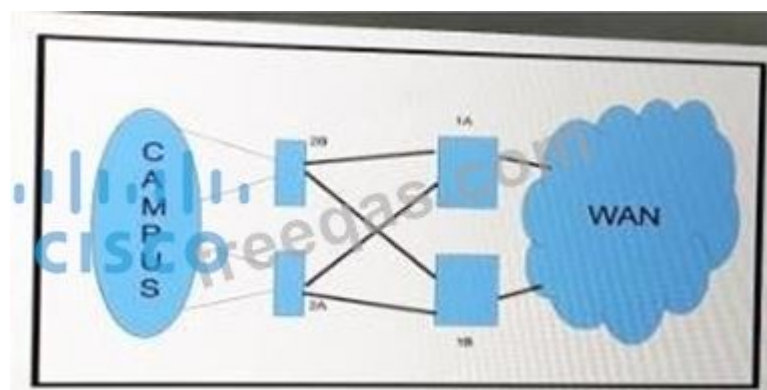
Refer to the exhibit. In which two ways is this network impacted if link instability exists between R1 and R2?
(Choose two)

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 179

Refer to the exhibit.



How should you redesign this network running BGP to improve availability of the routers 1A and 1B at the core site?

- A. Enable graceful restart
- B. Use link bundles over multiple slots
- C. Deploy BGP PIC
- D. Create a multichassis system with the two routers

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

NEW QUESTION: 180

When you decide on Campus QoS Design elements, which two statements correctly identify considerations to be taken into account?

- A. Voice needs to be assigned to the hardware priority queue.
- B. Voice needs to be assigned to the software priority queue.
- C. Call signaling must have guaranteed bandwidth service.
- D. Strict-priority queuing should be limited to 50 percent of the capacity of the link.

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

Section: (none)

Explanation/Reference:

NEW QUESTION: 181

Drag and drop the jitter definition and how to compensate for it from the left onto the right

Jitter is the actual delay between the time a packet is expected to transmit and when it actually transmits.

Jitter is the variation between the time a packet is expected to arrive and when it actually arrives.

Jitter is the variation between the time a packet is expected to drop an when it actually drops.

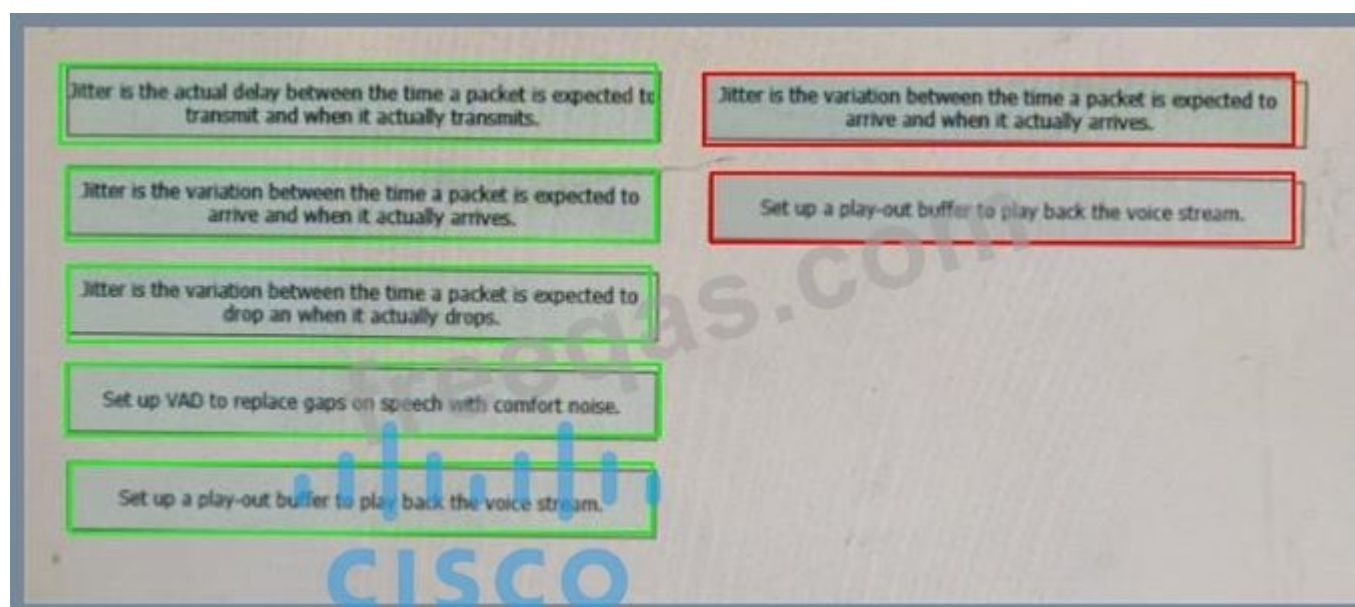
Set up VAD to replace gaps on speech with comfort noise.

Set up a play-out buffer to play back the voice stream.

jitter definition

how to compensate for jitter

Answer:



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NEW QUESTION: 182

Which action reduces jitter in a VoIP network?

- A. Adjust the play out delay buffer at the receiver
- B. Increase the bandwidth of the links
- C. Deploy Call Admission Control
- D. Deploy WRED

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

NEW QUESTION: 183

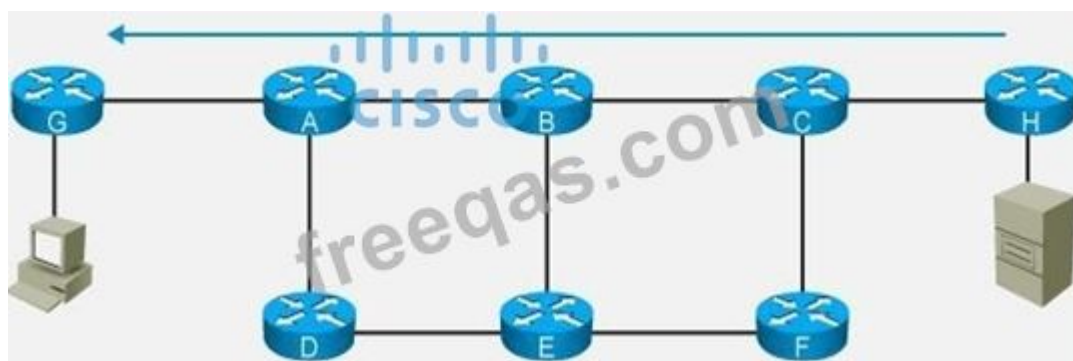
If a network design must support rapid convergence on half-duplex interfaces, which IEEE 802.1w capability should be used?

- A. loop guard
- B. root guard
- C. proposal-agreement handshake
- D. UplinkFast

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

NEW QUESTION: 184

Refer to the exhibit.



This network is running IS-IS as the single routing protocol and the LSP and SPF timers are aggressively configured so the network converges in subsecond. The customer reports that router B had a memory crash and reloaded. Which resulted in some packets from the application being lost. The application servers are behind router G and the end users are behind router H, which design change should be made to prevent this packet-loss problem from reoccurring?

- A. Optimize the LSP/SPF timers to send LSPs immediately after a topology change
- B. Redesign the network as a flat level 2
- C. Enable the advertisement of the overload bit for a specific amount of time after reload on router B
- D. Use asymmetric carrier delay timer
- E. Deploy all links as point-to-point

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

NEW QUESTION: 185

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, but leave the ABR function on the data center aggregation routers.
- B. Add a layer of regional Layer 2 aggregation devices, but leave the ABR function on the data center aggregation routers.
- C. Add a layer of regional Layer 2 aggregation devices and move the ABR function to the regional aggregation device.
- D. Add a layer of regional Layer 3 aggregation devices and move the ABR function to the regional aggregation device.

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

NEW QUESTION: 186

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

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

NEW QUESTION: 187

When designing large EIGRP networks, what is the benefit of route summarization when there are multiple paths to the same destination?

- A. It is used to reduce the EIGRP querying domain to create stability and faster convergence.
- B. It is a feature used to prevent routing loops.
- C. It is a feature used to load balance traffic across multiple links.
- D. It is a way to discard unwanted routes.

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

NEW QUESTION: 188

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 189

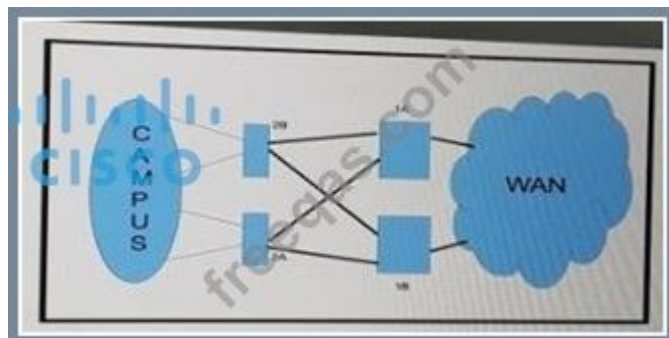
A large enterprise network runs IS-IS. There is a concern that the IS-IS default metrics are not flexible enough Which IS-IS feature enables increased granularity for traffic engineering on the network?

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

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

NEW QUESTION: 190

Refer to the exhibit.



How should you redesign this network running BGP to improve availability of the routers 1A and 1B at the core site?

- A. Create a multichassis system with the two routers
- B. Use link bundles over multiple slots
- C. Deploy BGP PIC
- D. Enable graceful restart

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 191

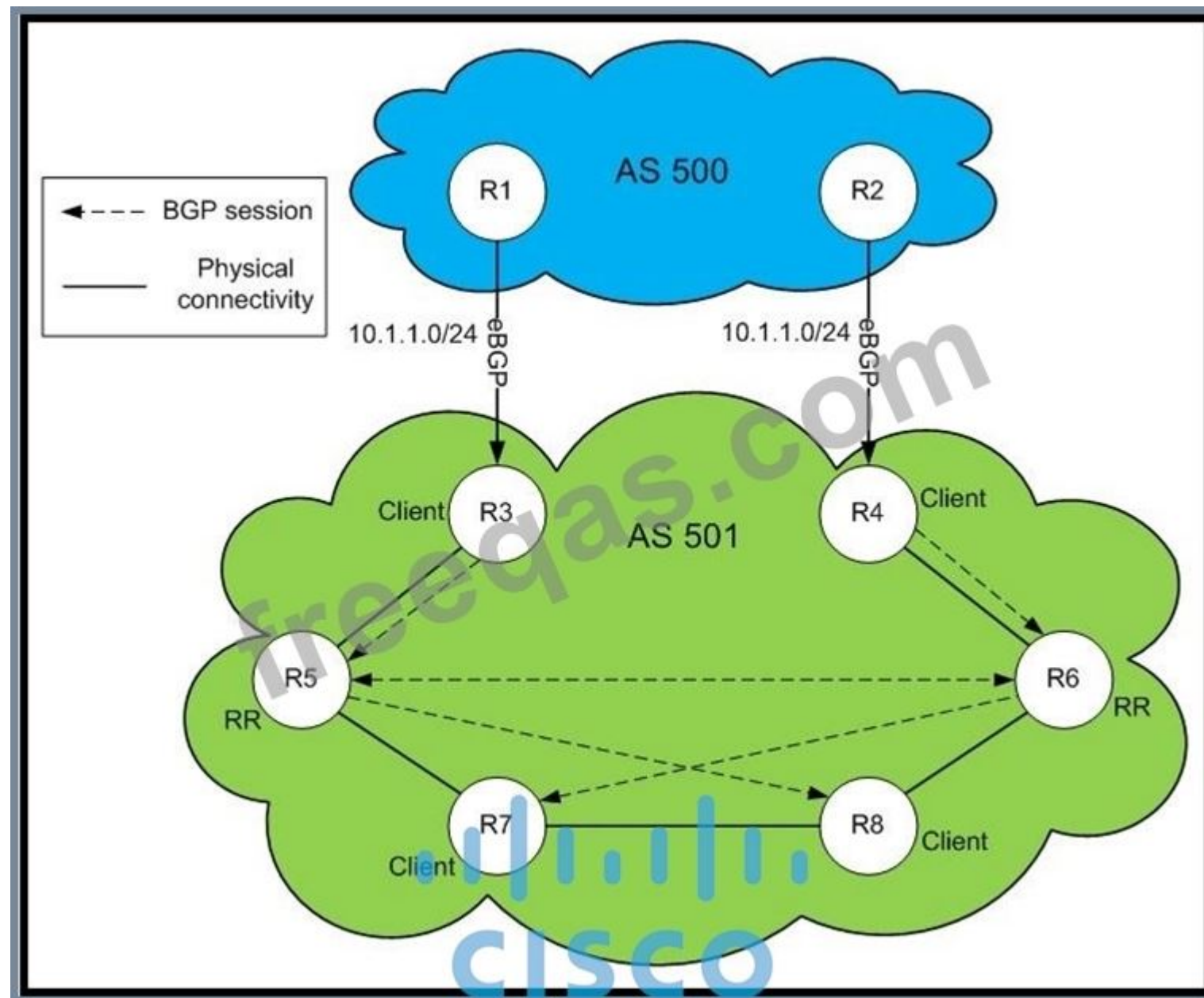
What is a key design aspect to be considered when designing an IP network that will be carrying real-time VoIP traffic?

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

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

NEW QUESTION: 192

Refer to the exhibit.



In this BGP design, what is the next hop for 10.1.1.0/24 on R8 and R7?

- A. The next hop for 10.1.1.0/24 on R7 is R8 and the next hop for R8 is R7.
- B. The next hop for 10.1.1.0/24 on R7 is R5 and the next hop for R8 is R6.
- C. The next hop for 10.1.1.0/24 on R7 is R6 and the next hop for R8 is R5.
- D. The next hop for 10.1.1.0/24 on R7 is R3 and the next hop for R8 is R4.

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

Explanation/Reference:

Explanation:

NEW QUESTION: 193

Which purpose of a dynamically created tunnel interface on the design of IPv6 multicast services is true?

- A.** transport of all IPv6 multicast traffic
- B.** first-Hop router registration to the RP
- C.** multicast source registration to the RP
- D.** multicast client registration to the RP

Answer: ([SHOW ANSWER](#))

<https://tools.ietf.org/html/rfc7450>

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipmulti_pim/configuration/xe-16-5/imc-pim-xe-16-5-book/imc-auto-mlt-tun.html

NEW QUESTION: 194

A Service Provide network designer is considering the use of the G.8032 Ethernet Ring Protection mechanism in order to provide resiliency in the network Which three concepts will be supported with the implement token

G.8032? (Choose three)

- A.** Ring Automatic Protection Switching (R-APS)
- B.** Multi-Router Automatic Protection Switching (MR-APS)
- C.** Ring Protection Link (RPL)
- D.** Automatic Protection Switching (APS) Channel

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

Explanation

<https://www.ieee802.org/1/files/public/docs2008/liaison-itut-g8032-overview-0308.pdf>

G.8032 Terms and Concepts

Ring Protection Link (RPL) – Link designated by mechanism that is blocked during Idle state to prevent loop on Bridged ring

RPL Owner – Node connected to RPL that blocks traffic on RPL during Idle state and unblocks during Protected state

Link Monitoring – Links of ring are monitored using standard ETH CC OAM messages (CFM)

Signal Fail (SF) – Signal Fail is declared when ETH trail signal fail condition is detected

No Request (NR) – No Request is declared when there are no outstanding conditions (e.g., SF, etc.) on the node

Ring APS (R-APS) Messages – Protocol messages defined in Y.1731 and G.8032

Automatic Protection Switching (APS) Channel - Ring-wide VLAN used exclusively for transmission of OAM messages including R-APS messages

NEW QUESTION: 195

You are designing a core MPLS-based network with a single OSPF area with no external routes. Which two mechanisms can be used to improve convergence time during a failure? (Choose two.)

- A. route filtering
- B. BFD
- C. incremental SPF
- D. graceful restart

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

NEW QUESTION: 196

Which two statements accurately describe QoS in MPLS VPN (RFC 2547bis) networks? (Choose two.)

- A. On egress from the Edge-LSR, the EXP field is used for PHB QoS towards the CE.

- B. MPLS QoS is a scalable and simple solution because it only requires application at the Edge-LSR.
- C. MPLS can force packets into specific paths and bandwidths based on Edge-LSR mapping of DSCP to EXP.
- D. DiffServ information must be made known to the LSR in the MPLS header using the EXP field.

Answer: C,D (LEAVE A REPLY)

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NEW QUESTION: 197

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: 198

While designing a security solution, which three requirements would make you decide to deploy an IPS sensor in inline mode? (Choose three.)

- A. The solution should be resistant to sensor failure.
- B. The solution should allow for signature-based pattern matching.
- C. The solution should allow denying packets inline.
- D. The solution should not impact jitter and latency for voice traffic.
- E. The solution should allow for stream normalization.

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

NEW QUESTION: 199

You are evaluating convergence characteristics of various interior gateway protocols for a new network design. Which technology allows link-state routing protocols to calculate paths to destination prefixes that are functionally similar to feasible successors in Enhanced Interior Gateway Routing Protocol?

- A. Incremental Shortest Path First
- B. Cisco Multiprotocol Label Switching Traffic Engineering Fast Reroute
- C. Loop-Free Alternate Fast Reroute

D. partial route calculation

E. Fast-Flooding

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

Explanation/Reference:

Explanation:

NEW QUESTION: 200

What are two design characteristics of GETVPN? (Choose two.)

A. It supports dynamic partial- or full-mesh tunnels.

B. It uses tunnel-less technology.

C. It uses GDOI to distribute keys.

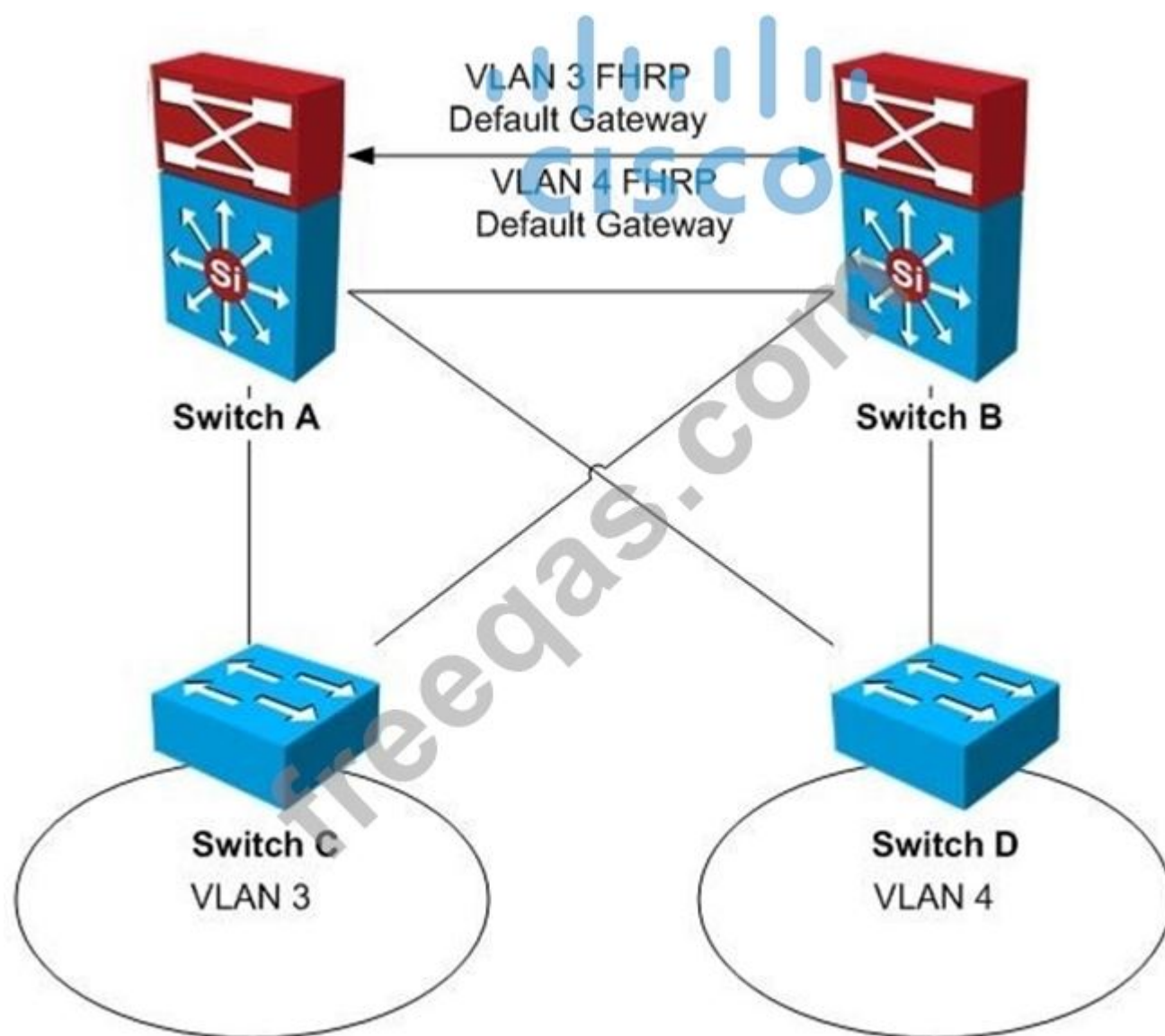
D. It requires multicast replication at the hub.

E. It supports private addresses over public Internet.

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

NEW QUESTION: 201

Refer to the exhibit.



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

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

Answer: C,D (LEAVE A REPLY)

Explanation/Reference:

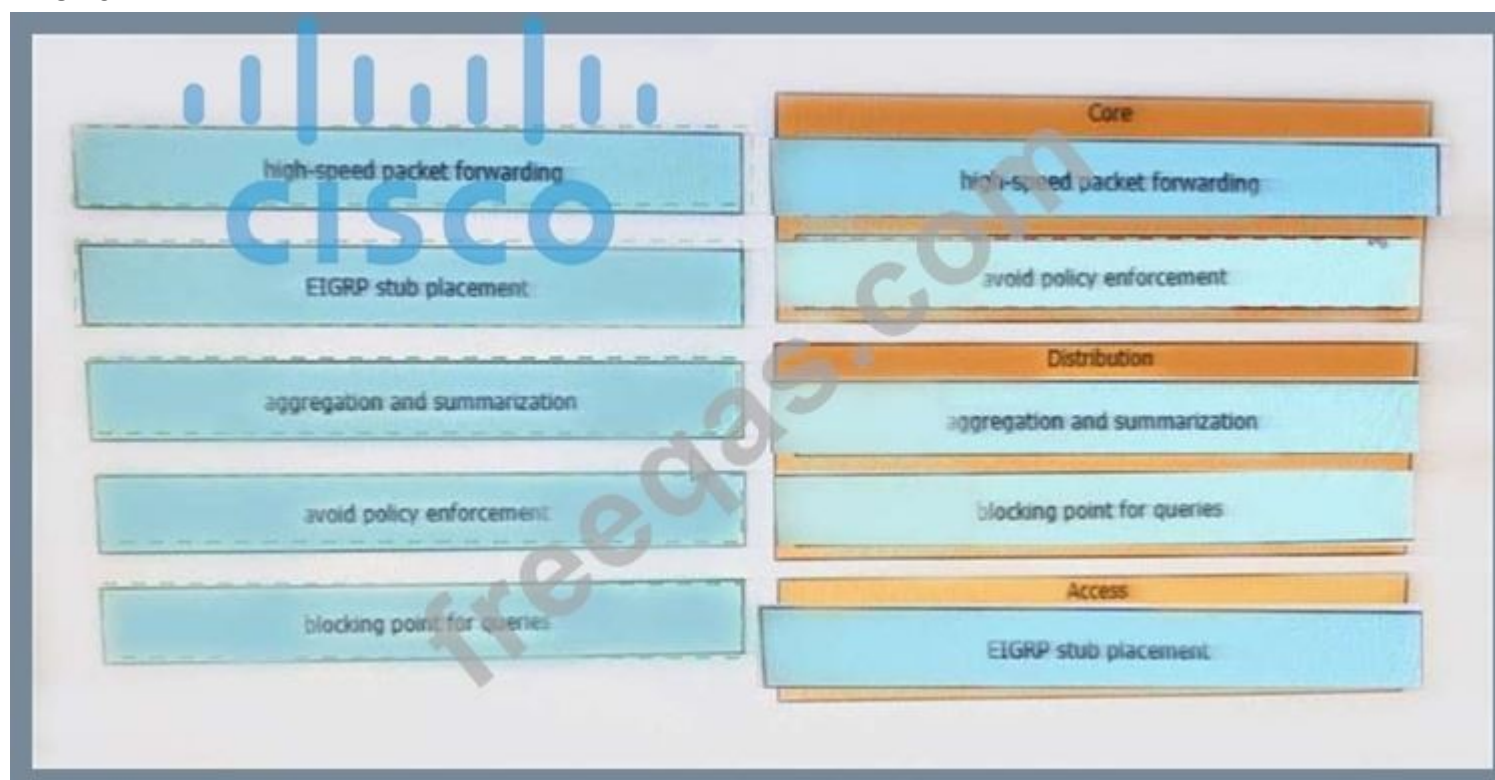
Explanation:

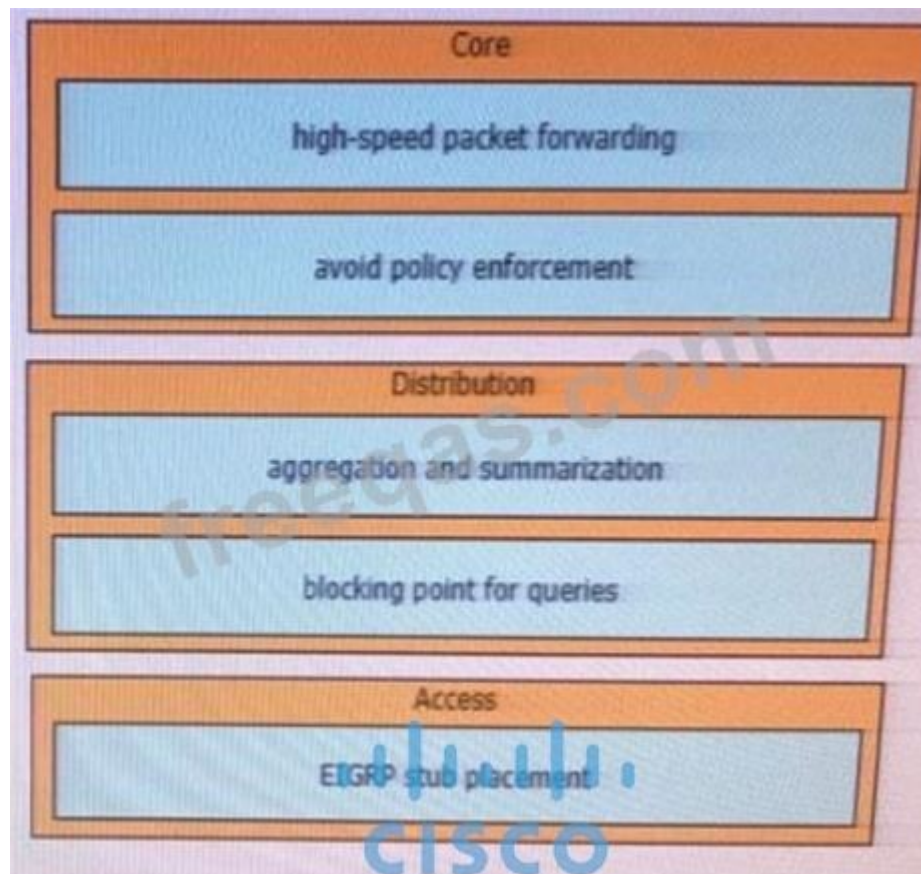
NEW QUESTION: 202

Drag and drop the EIGRP design considerations from the left onto the corresponding hierarchical layer characteristics on the right



Answer:





NEW QUESTION: 203

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.

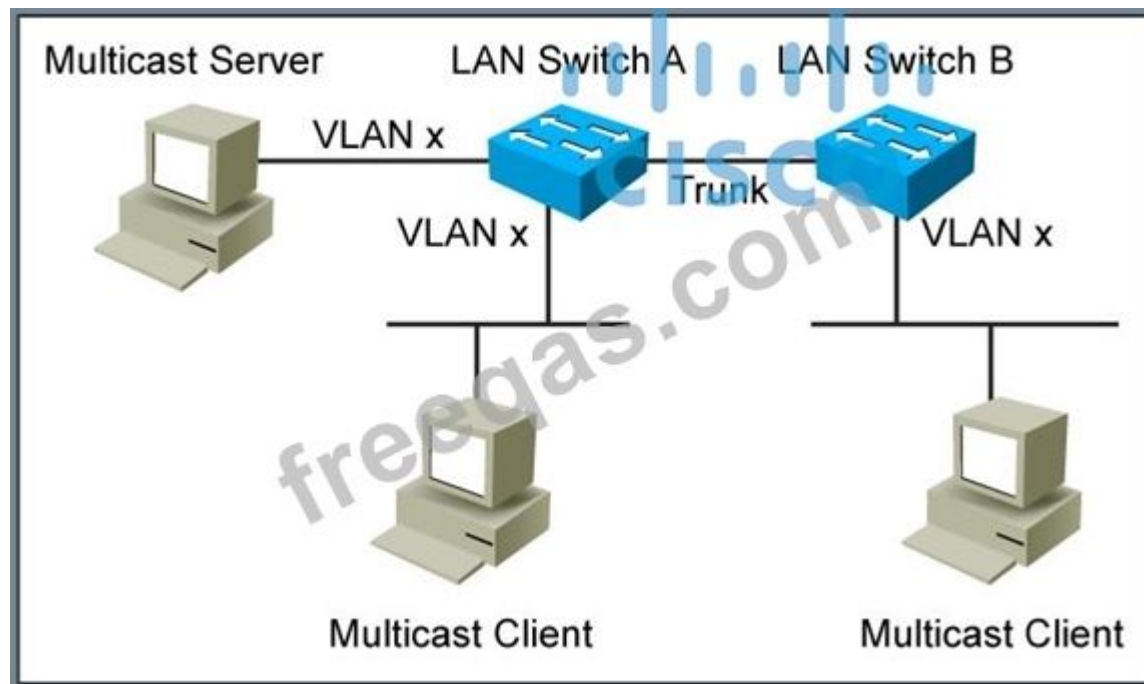
Answer: A ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 204

Refer to the exhibit.



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

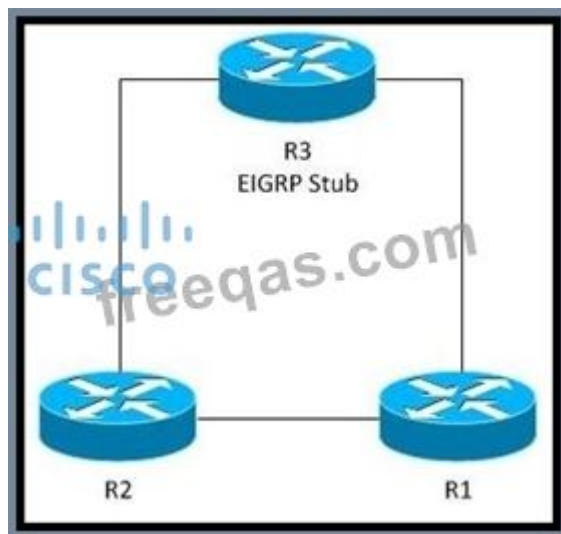
Which feature can be used to optimize multicast traffic forwarding in this situation?

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

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

NEW QUESTION: 205

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.)

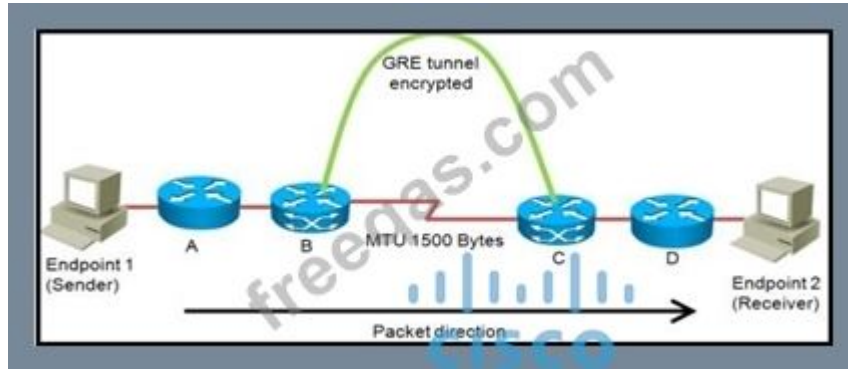
- A. R1 will have routes in its routing table that originate from R2 and R3.
- B. R3 will be transit for traffic between R1 and R2.

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

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

NEW QUESTION: 206

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 1500- byte 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 B fragments packets after the encryption, router C must reassemble these fragmented packets.
- D. When router A fragments packets, router C must reassemble these fragmented packets.
- E. When router B fragments packets after the encryption, the endpoint 2 must reassemble these fragmented packets.
- F. When router B fragments packets before the encryption, endpoint 2 must reassemble these fragmented packets.

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

NEW QUESTION: 207

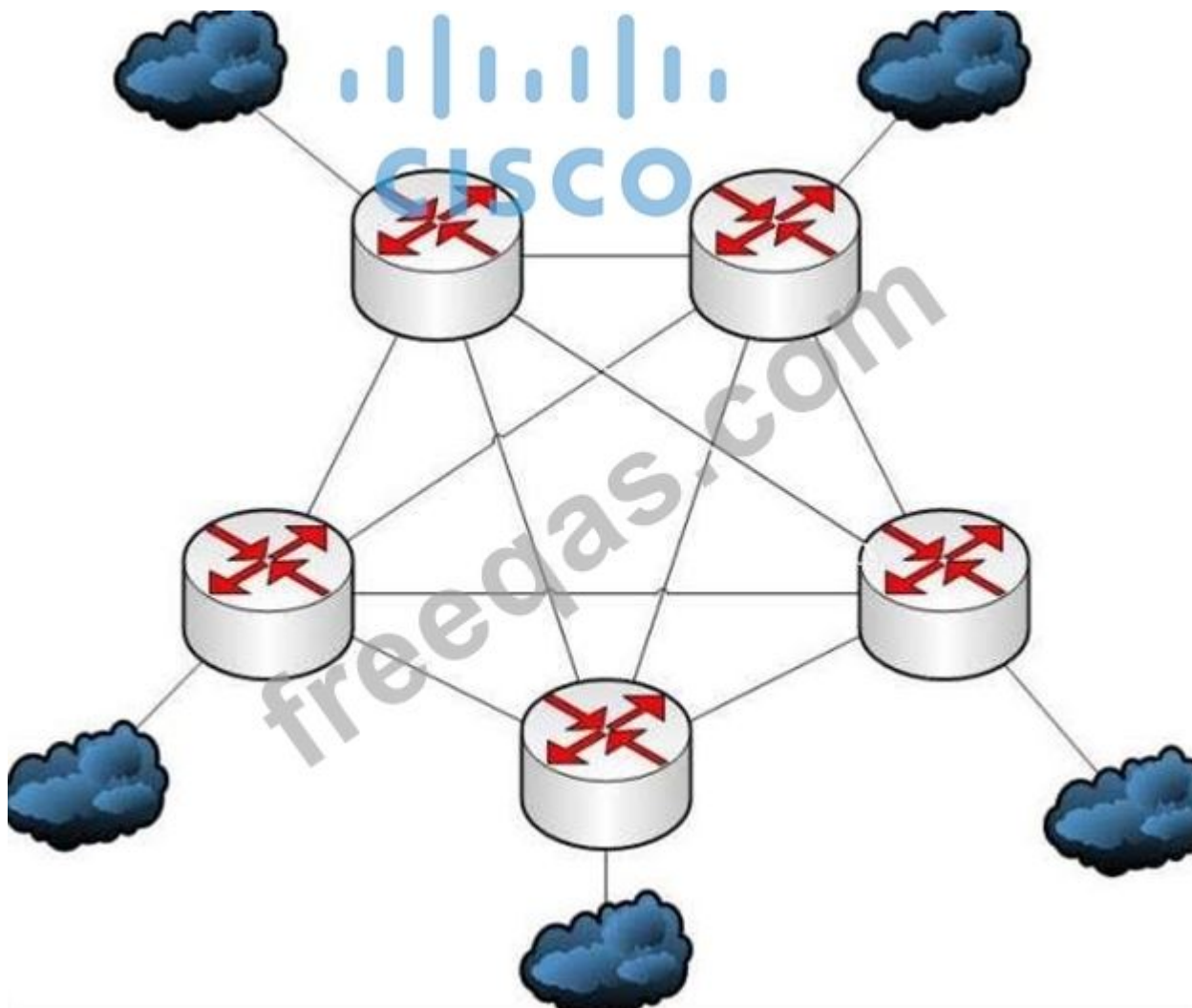
Which of these is a reason to carry routes that originate outside your network in an EGP, such as BGP, rather than in your IGP, such as OSPF, EIGRP, or IS-IS?

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

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

NEW QUESTION: 208

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

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

Section: Layer 3 ControlPlane

Explanation/Reference:

NEW QUESTION: 209

A switched network is being designed to support a manufacturing factory. 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 Backbone Fast on all devices to accelerate failure convergence times.
- B. Design the network to include loop guard to prevent a loop in the switched network when a link has too much interference.
- C. Design the network to include UDLD to detect unidirectional links and take them out of service.
- D. Design the network to include Ether Channel bundles to prevent a single-link failure from taking down a switch interconnection point.

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

NEW QUESTION: 210

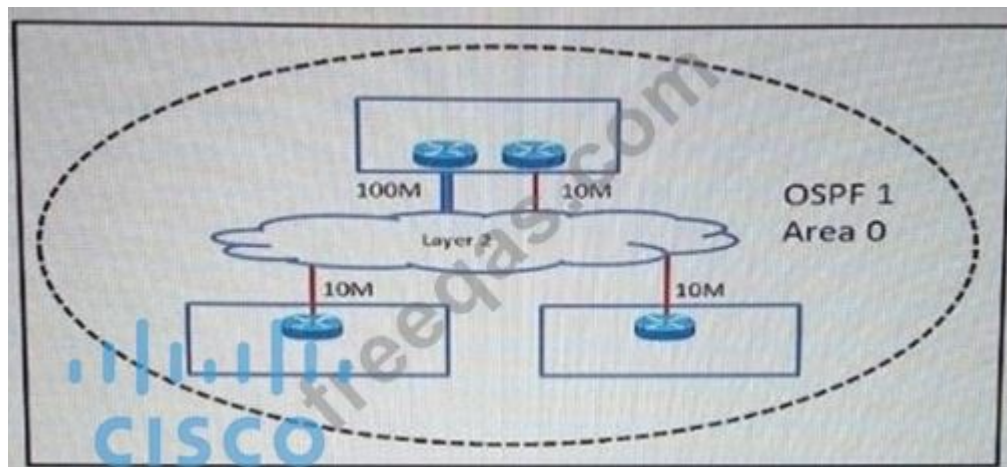
When designing a WAN that will be carrying real-time traffic, what are two important reasons to consider serialization delay? (Choose two.)

- 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 delays are variable because they depend only on the size of the packet being serialized.
- D. Serialization delays are invariable because they depend only on the line rate of the interface.
- E. Serialization delay depends not only on the line rate of the interface but also on the size of the packet.

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

NEW QUESTION: 211

Refer to the exhibit.



An enterprise has three sites over a Layer 2 Metro Ethernet ELAN service. 100Mb/s and 10 Mb/s links have been provisioned to provide redundancy for the head office. When OSPF routing enabled to provide connectivity and the correct bandwidth statement has been applied to each interface, the branch sites observe two equal-cost routes to the head office. The enterprise wants to send all traffic through the 100 Mb/s link and use the 10Mb/S link strictly as a backup. Which OSPF network type must be set to ensure that the head office 100 Mb/s circuit is preferred over the 10 Mb/s circuit, at the same time minimize the amount of configuration required on all of the routers throughout the network?

- A. Point-to-point
- B. Broadcast
- C. Point-to-multipoint
- D. NBMA

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

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NEW QUESTION: 212

What are three key design principles when using a classic hierarchical network model? (Choose three.)

- A. The core layer controls access to resources for security.
- B. The core layer should be configured with minimal complexity.
- C. The core layer is designed first, followed by the distribution layer and then the access layer.
- D. A hierarchical network design model aids fault isolation.
- E. The core layer provides server access in a small campus.
- F. A hierarchical network design facilitates changes.

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

Explanation/Reference:

exact answer.

NEW QUESTION: 213

You have been tasked to create a Layer 2 network design that uses vPC to provide resiliency and avoid loops. vPC removes Layer 2 loops while providing redundancy through which mechanism?

- A. address synchronization
- B. Bridge Assurance
- C. dual-active detection
- D. strict forwarding rules

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 214

During periods of congestion, which two impacts are of traffic shaping on traffic flows? (Choose two.)

- A. increased delay
- B. fewer packets dropped
- C. less bandwidth consumption
- D. more packets dropped

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

Section: (none)

Explanation/Reference:

NEW QUESTION: 215

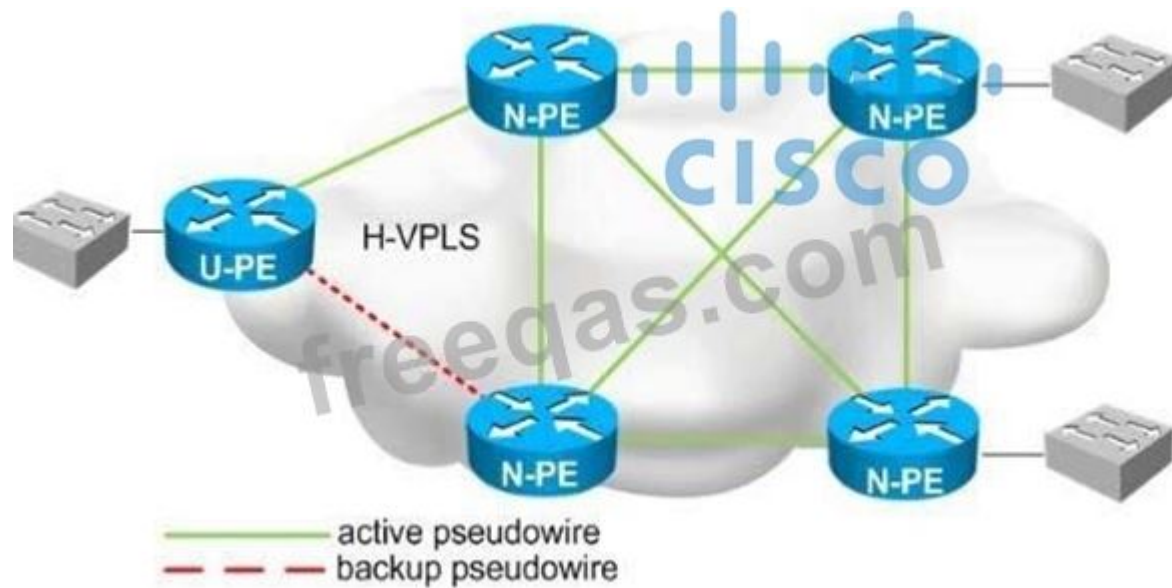
Which two headend router scalability factors should be considered when designing a DMVPN network solution that uses a hub-and-spoke topology? (Choose two.)

- A. the CPU and memory of the headend router
- B. the amount of bandwidth necessary to terminate all the remote tunnels
- C. the routing protocol chosen for the data plane routing
- D. the maximum number of tunnels supported by the headend router
- E. the required aggregated packet per second

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

NEW QUESTION: 216

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

Answer: ([SHOW ANSWER](#))

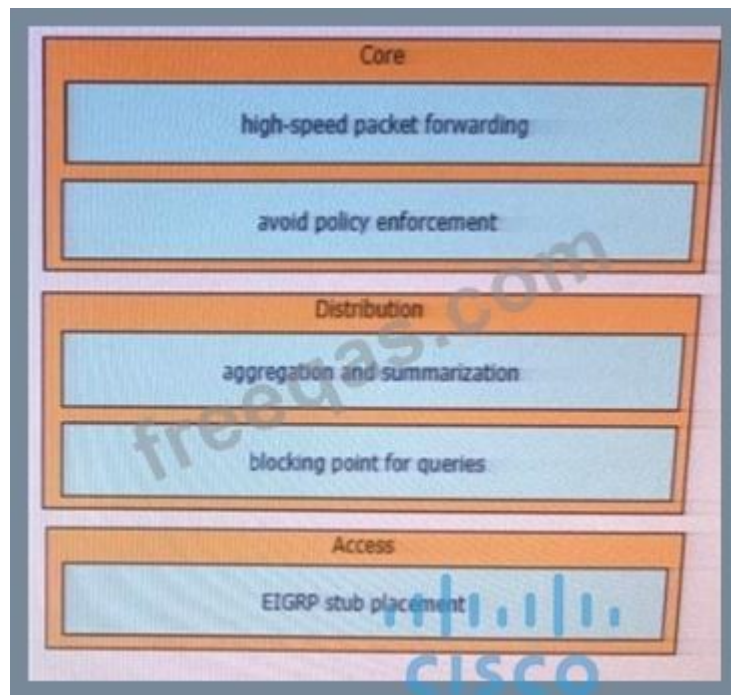
NEW QUESTION: 217

Drag and drop the EIGRP design considerations from the left onto the corresponding hierarchical layer characteristics on the right



Answer:





NEW QUESTION: 218

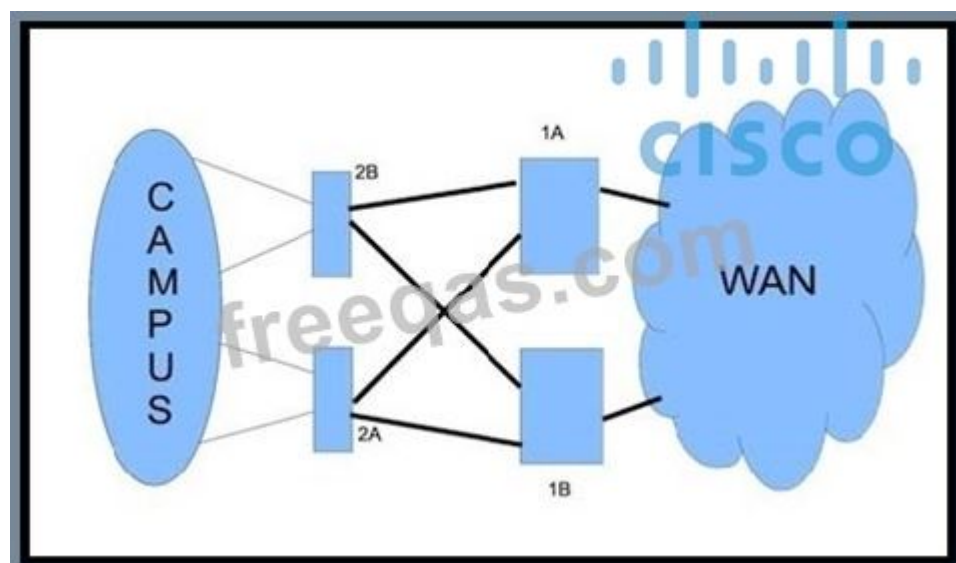
An operations engineer asks for your help with a new switching deployment. The engineer confirms that STP is enabled on an edge switch, and a particular port is connected to another switch. The switch is not receiving configuration BPDUs, although it appears that everything is functioning correctly in the network. What is the design explanation?

- A. REP is enabled on the port
- B. Storm control broadcast is enabled on the port
- C. Bridge Assurance is enabled on the port
- D. BPDU Guard is enabled on the port

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 219

Refer to the exhibit.



How would you redesign the network to improve availability of the routers 1A and 1B at the core site?

- A. Enable Graceful Restart Helper for OSPF

- B. Use link bundles over multiple slots
- C. Create a multichassis system with the two routers
- D. Use APS Ethernet circuits and redundant interfaces

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 220

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

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

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

NEW QUESTION: 221

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 protocols that can be used to signal pseudowires.

Protocols
LDP
RSVP
BGP
L2TPv3

Answer:

Protocols
LDP
BGP

NEW QUESTION: 222

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

Answer: A (LEAVE A REPLY)

NEW QUESTION: 223

Select and Place:

What is the definition of jitter, and how must network designers compensate for jitter so an IP network can carry real-time VoIP traffic?

Jitter is the actual delay between the time a packet is expected to transmit and when it actually transmits.

Jitter is the variation between the time a packet is expected to arrive and when it actually arrives.

Jitter is the variation between the time a packet is expected to drop and when it actually drops.

Set up a play-in buffer to play back the voice stream in a smooth fashion and avoid discontinuity in the voice stream.

Set up a play-out buffer to play back the voice stream in a smooth fashion and avoid discontinuity in the voice stream.

Definition of jitter

How to compensate for jitter

Answer:

What is the definition of jitter, and how must network designers compensate for jitter so an IP network can carry real-time VoIP traffic?

Jitter is the actual delay between the time a packet is expected to transmit and when it actually transmits.

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Set up a play-in buffer to play back the voice stream in a smooth fashion and avoid discontinuity in the voice stream.

Definition of jitter

Jitter is the variation between the time a packet is expected to arrive and when it actually arrives.

How to compensate for jitter

Set up a play-out buffer to play back the voice stream in a smooth fashion and avoid discontinuity in the voice stream.

NEW QUESTION: 224

According to the network in this exhibit, traffic directed towards 10.1.5.1 arrives at P4S-R4. Which path will the traffic take from here?

- A. It will take P4S-R2.
- B. It will not take any path. P4S-R4 will drop the traffic.
- C. It will take P4S-R3.
- D. It will load share between P4S-R2 and P4S-R3.

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

Section: (none)

Explanation/Reference:

NEW QUESTION: 225

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 VLAN load balancing is configured, then one port in the segment controls the blocked state of VLANs
- C.** If all ports in the segment are operational, then one port is in the blocked state for each VLAN
- D.** 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
- E.** If all ports in the segment are operational, then two ports are in the blocked state for each VLAN

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

NEW QUESTION: 226

During a network design review, it is recommended that the network with a single large area should be broken up into a backbone and multiple nonbackbone areas. There are differing opinions on how many ABRs are needed for each area for redundancy. What would be the impact of having additional ABRs per area?

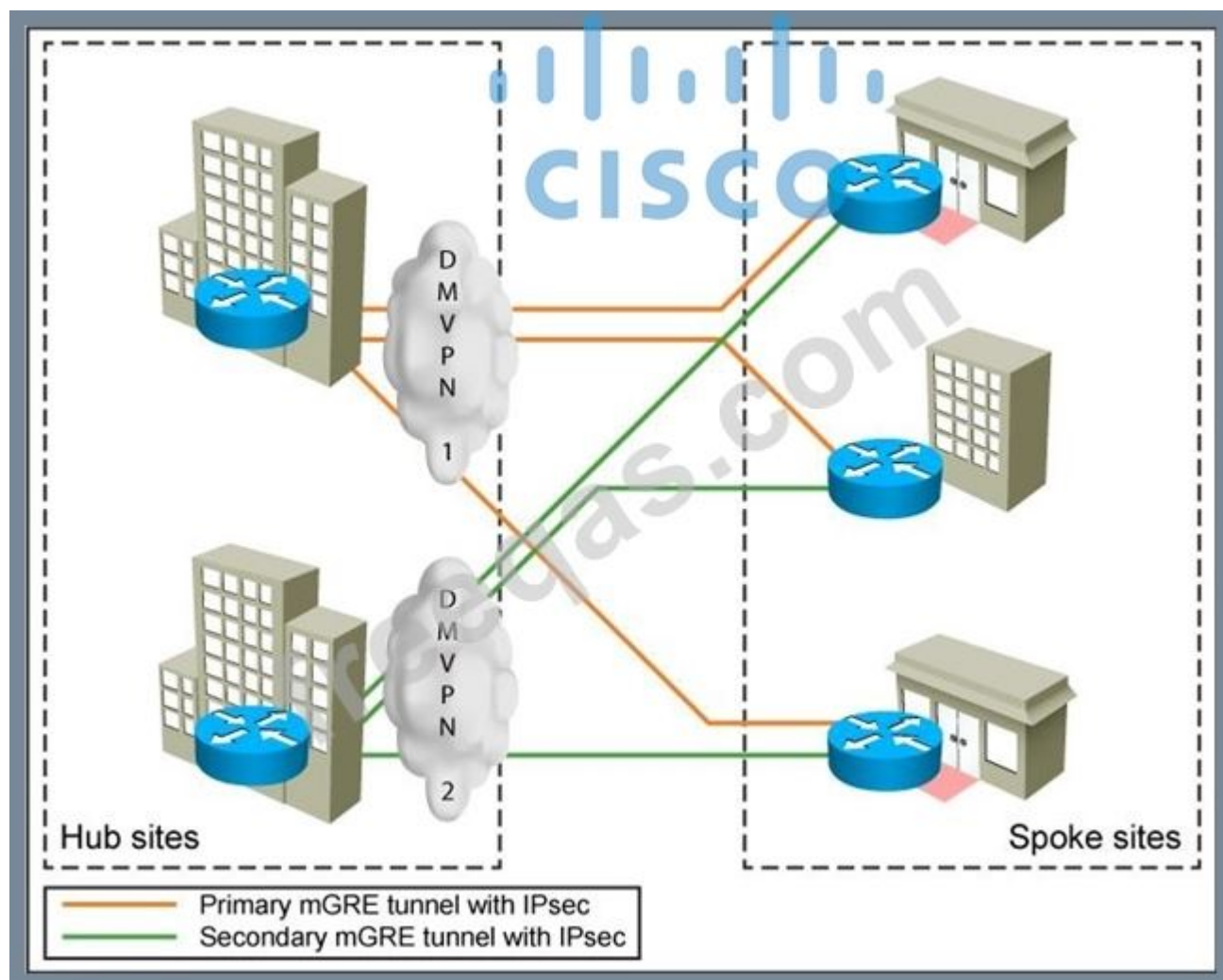
- A.** The SPF calculations are more complex.
- B.** The number of externals and network summaries are increased.
- C.** The size of the FIB is increased.
- D.** There is no impact to increasing the number of ABRs.

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

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NEW QUESTION: 227

Refer to the exhibit.



Which two options are two characteristics of the single-tier headend architecture for DMVPN designs? (Choose two.)

- A. The mGRE and crypto functions are on the same router.
- B. It is used in dual-cloud topologies for spoke-to-spoke connectivity.
- C. Each DMVPN cloud has two different headend routers for high availability purposes.
- D. It only supports hub-and-spoke connectivity.
- E. Spokes cannot be used as RP in multicast deployments.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 228

You are reviewing a new data center design for a customer. They chose to leverage a tunnel-based overlay technology for quick deployment and multitenant security. Which design concern can affect the availability across the data center?

- A. Paper placement of STP root bridge in overlay networks
- B. Nonoverlapping IP address space between the overlay networks
- C. Review of common paths on the underlay links
- D. MTU size on the underlay links

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 229

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

- A. Down detection
- B. IGP timers
- C. Shared risk link groups
- D. Bandwidth reservation

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

NEW QUESTION: 230

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

- A. 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.
- B. 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.
- C. The destination 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 fails the RPF check.
- D. 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.

Answer: (SHOW ANSWER)

Section: Evolving Technologies

NEW QUESTION: 231

Your company plans to implement an Internet gateway router that is performing NAT. This same gateway will be terminating various IPsec tunnels to other remote sites. Which address type is appropriate for the ACL that will govern the sources of traffic entering the tunnel in the inside interface?

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

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

NEW QUESTION: 232

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

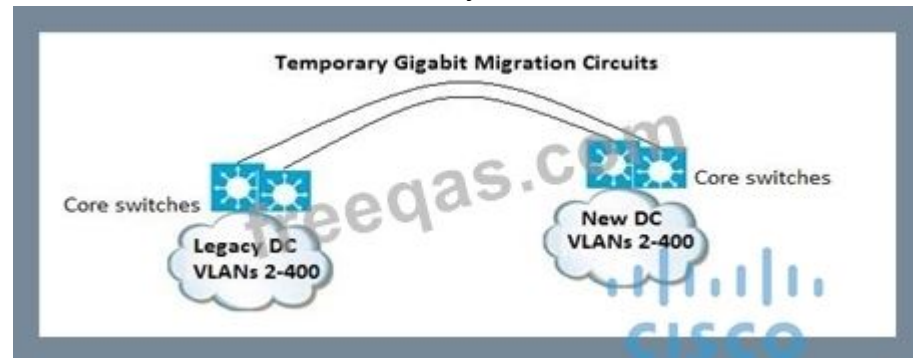
Explanation/Reference:

Explanation:

41

NEW QUESTION: 233

Refer to the exhibit. You are designing a data center migration from one location to another, which requires all existing VLANs spanned to the new data center to maintain host IP addressing. Two temporary Gigabit Ethernet circuits are available to extend the VLANs at Layer 2 to the new location as trunk links between core switches in each location. Which solution provides maximum fault isolation between the two data centers to ensure that a Layer 2 issue in one data center does not affect the other during the migration?



- A. Enable root guard on the trunk ports at the legacy DC site
- B. Perform HSRP filtering over the trunk links to maintain active HSRP gateways within each data center for each VLAN
- C. Run the dual links as multichassis EtherChannel trunk between core switches within each location
- D. Perform BPDU filtering over the trunk links

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

NEW QUESTION: 234

You are performing a BGP design review for a service provider that offers MPLS-based services to their end customers. The network is comprised of several PE routers that run iBGP with a pair of route reflectors for all BGP address families. Which two options about the use of Constrained Route Distribution for BGP/ MPLS VPNs are true? (Choose two.)

- A. Both PE and RR routers must support this feature.
- B. This feature must be enabled on all devices in the network at the same time.
- C. The RR must advertise the default route target filter toward the PE routers.
- D. The RRs do not need to advertise any route target filter toward the PE routers.

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

NEW QUESTION: 235

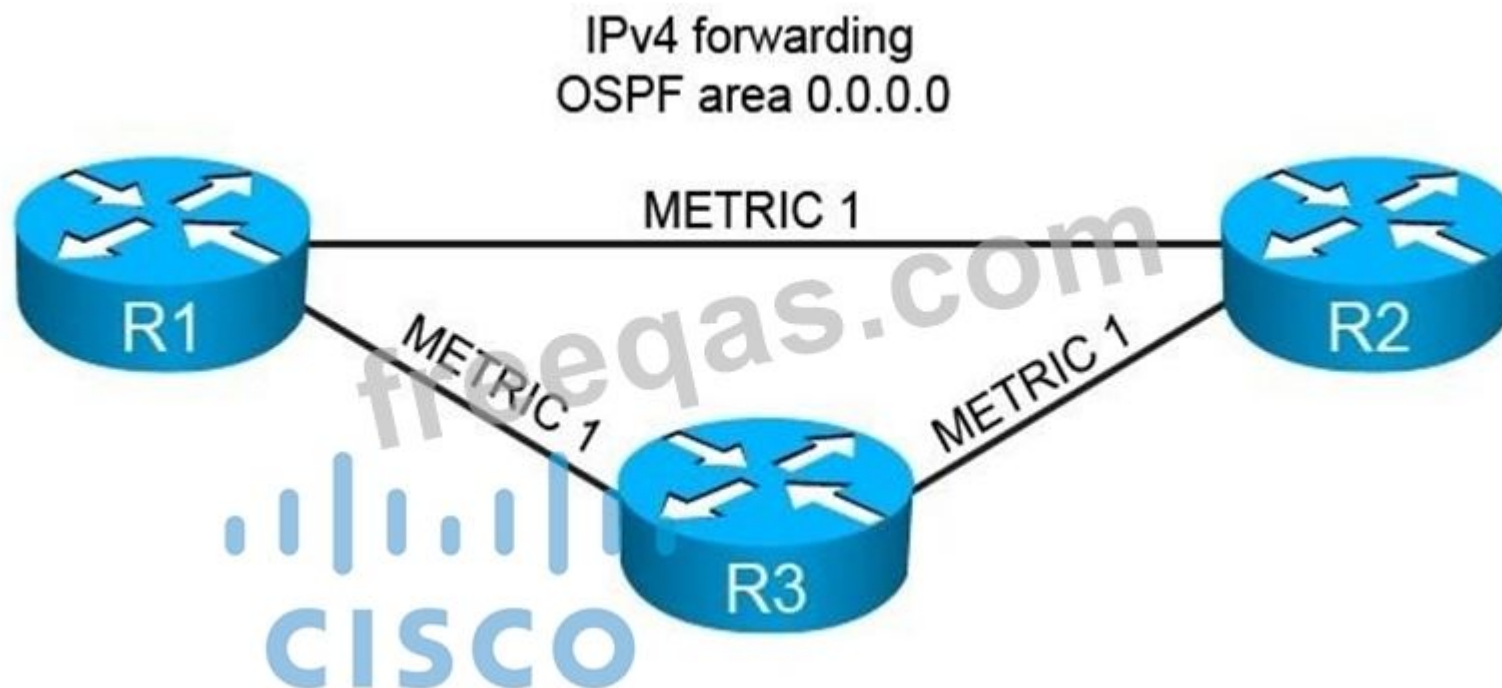
Which option describes an advantage of UDLD?

- A. It makes the port go immediately into the forwarding state after being connected.
- B. It does not generate a spanning-tree topology change upon connecting and disconnecting a station on a port.
- C. It prevents switched traffic from traversing suboptimal paths on the network.
- D. It prevents switch loops caused by uni-directional point-to-point link condition on Rapid PVST+ and MST.
- E. It prevents switch loops by detecting one-way communications on the physical port.
- F. It allows small, unmanaged switches to be plugged into ports of access switches without the risk of switch loops.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 236

Refer to the exhibit.



You are asked to design this OSPF network to converge within 60 ms for unicast packets after a topology change due to a single link failure. Which technology can be enabled while conforming to the design requirements?

- A. RSVP-TE Fast Reroute
- B. BFD
- C. Loop-Free Alternates
- D. IGP SPF timer tuning
- E. IGP neighbor timer tuning

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

NEW QUESTION: 237

Which three processes are part of the ITILv3 Service Operation? (Choose three.)

- A. service-level management
- B. change management
- C. incident management
- D. problem management
- E. release and deployment management
- F. event management

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

Section: Evolving Technologies

Explanation

NEW QUESTION: 238

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

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

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

NEW QUESTION: 239

Refer to the exhibit.

Which data format is used in this REST API call?

- A. XML
- B. HTMLv5
- C. JSON
- D. BASH
- E. HTML

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

NEW QUESTION: 240

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

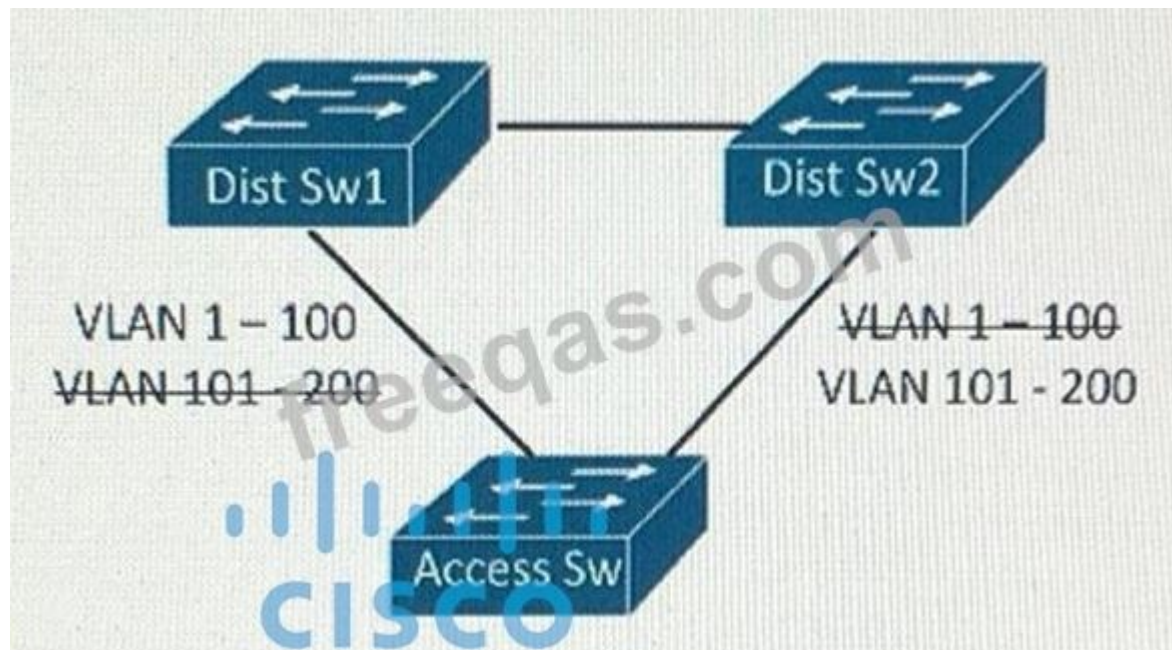
- A. The VPN solution should support Frame Relay to Ethernet pseudowire connections
- B. The VPN solution does not contain MPLS on the network core
- C. The VPN solution should tunnel Layer 2 frames and Layer 3 packets
- D. The VPN solution requires multipoint Ethernet LAN service
- E. The VPN solution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

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

Section: Evolving Technologies

NEW QUESTION: 241

Refer to the exhibit.



This layer 2 network is expected to add 150 VLANs over the next year, In addition to the existing 50 VLANs within the network which STP types will support this design requirement the least amount of CPU resource and achieving load balancing?

- A. CST
- B. MST
- C. RSTP
- D. PVST+

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

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NEW QUESTION: 242

When a multiprotocol environment is designed to have several routers redistribute among the routing domains, how can routing loops be avoided?

- A. by using the AS-PATH attribute
- B. by using route tags
- C. by activating split horizon
- D. by implementing spanning tree

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

Explanation/Reference:

Explanation:

NEW QUESTION: 243

The network architect wants to reduce the OSPF database in the network by using summarization techniques. In which two places in the network can summarization be applied to maximum effect? (Choose two.)

- A. on the OSPF links of all ASBR routers
- B. on the routing process of all ABR routers
- C. on the OSPF links of all backbone routers
- D. on the routing process of all backbone routers
- E. on the OSPF links of all ABR routers
- F. on the routing process of all ASBR routers

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

NEW QUESTION: 244

Which two actions ensure voice quality in a branch location with a low-speed, high-latency WAN connection? (Choose two)

- A. Prioritize voice packets.
- B. Replace any electrical links with optical links.
- C. Fragment data packets.
- D. Increase WAN bandwidth
- E. Increase memory on the branch switch.

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

NEW QUESTION: 245

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

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

NEW QUESTION: 246

Which two statements about AToM are true? (Choose two)

- A. It encapsulates Layer 2 frames at the egress PE
- B. When using AToM, the IP precedence field is not copied to the MPLS packet
- C. AToM supports connecting different L2 technologies using interworking option
- D. The loopback address of the PE router must be either /24 or /32
- E. It provides support for L2VPN features on ATM interfaces

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

NEW QUESTION: 247

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.

How would you design your solution to map the DSCP value properly so that the traffic is assigned to the respective queues in the Service Provider XYZ MPLS core network?

- A.** Map the appropriate DSCP value into the EXP field based on the number of queues in the MPLS PE routers.
- B.** Map the appropriate DSCP value into the EXP field based on the number of queues in the MPLS P routers.
- C.** Classify traffic according to DSCP value into appropriate P router queues.
- D.** Based on the DSCP value, traffic is mapped automatically into appropriate queues in the MPLS CE routers.

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

NEW QUESTION: 248

Which mechanism provides fast path failure detection?

- A.** Carrier delay
- B.** UDLD
- C.** Fast hello packets
- D.** iSPF
- E.** Graceful restart
- F.** Non-Stop Forwarding

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

NEW QUESTION: 249

FIFO queuing is being used on all routers in a network. The primary application running on the network is data backup using FTP. At certain times, users experience cyclical performance degradation.

What two things might mitigate this problem and help ensure bandwidth is used effectively in the network?

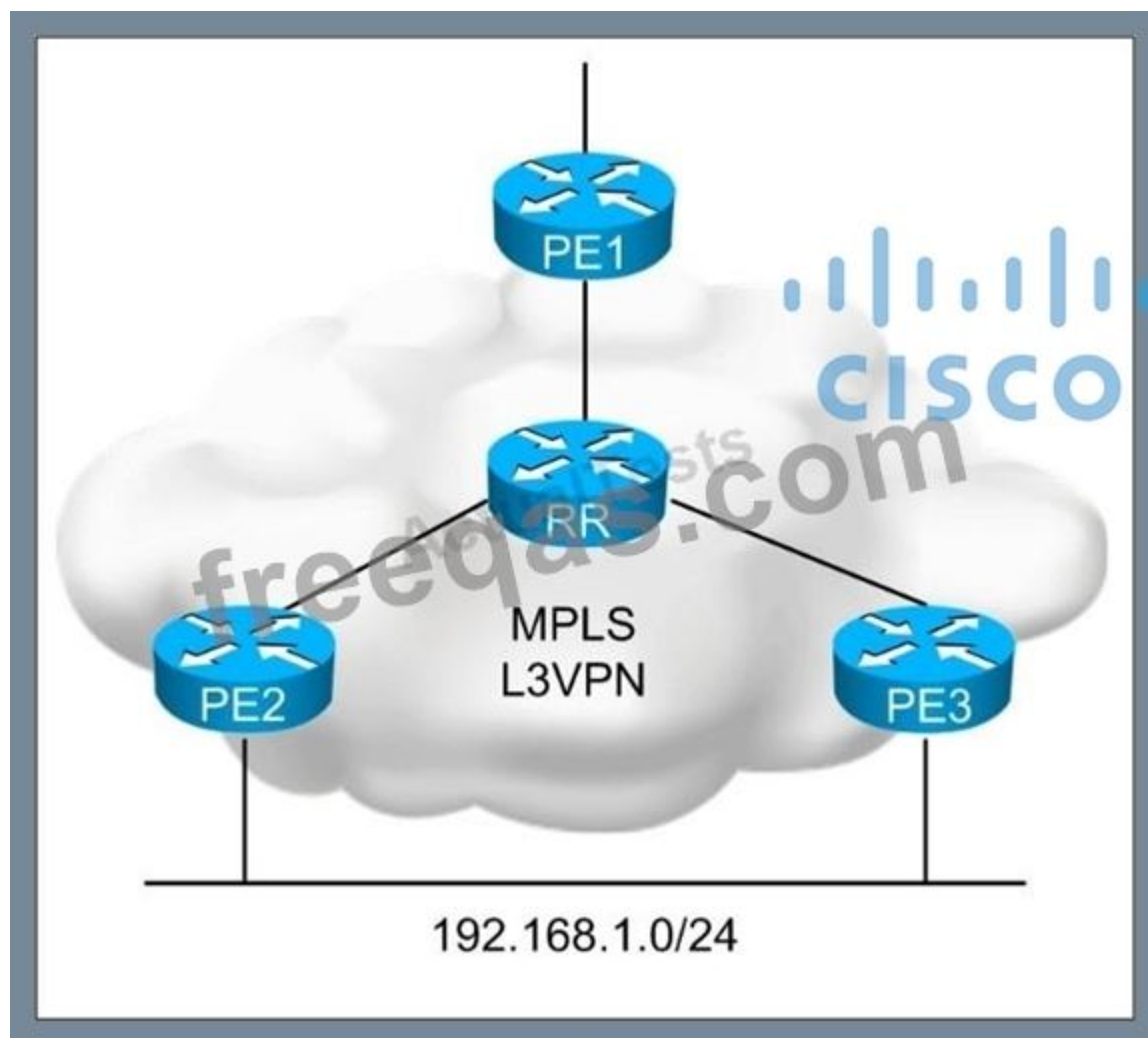
(Choose two.)

- A.** traffic shaping
- B.** WRED
- C.** traffic policing
- D.** MDRR
- E.** CB-WFQ

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

NEW QUESTION: 250

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

Explanation/Reference:

Explanation:

47

NEW QUESTION: 251

DRAG DROP

Drag the fast convergence mechanisms on the left and drop them into the objectives that they accomplish.

Link-State Partial SPF	Fast Detection
IP Event Dampening	Target
BFD	Slow Network Reaction When Events Occur Rapidly
Link-State Incremental SPF	Target
Link-State Exponential Backoff	Target
	Fast Route Calculation
	Target
	Target

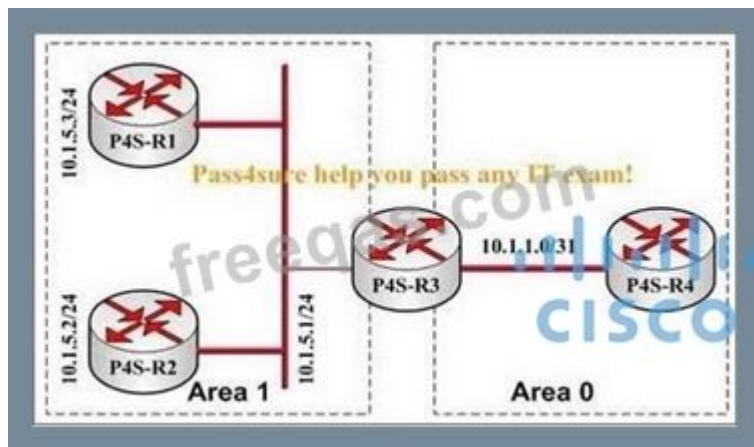
Answer:

Drag the fast convergence mechanisms on the left and drop them into the objectives that they accomplish.

Link-State Partial SPF	Fast Detection
IP Event Dampening	BFD
BFD	Slow Network Reaction When Events Occur Rapidly
Link-State Incremental SPF	IP Event Dampening
Link-State Exponential Backoff	Link-State Exponential Backoff
	Fast Route Calculation
	Link-State Partial SPF
	Link-State Incremental SPF

NEW QUESTION: 252

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.

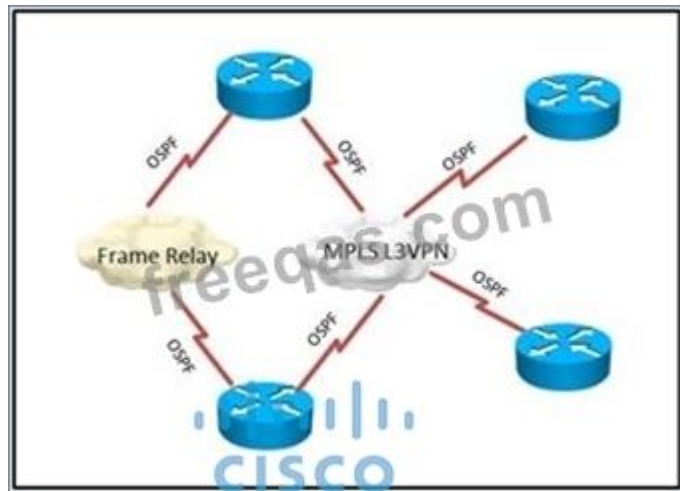
Answer: B (LEAVE A REPLY)

Section: (none)

Explanation/Reference:

NEW QUESTION: 253

Refer to the exhibit.



An enterprise is migrating its single-area OSPF network from a Frame Relay WAN service to an MPLS L3VPN service. Frame Relay will remain in only a few sites that require increased resiliency via two different WAN connections.

Which feature could be used in the MPLS VPN service provider network to support the design requirement by ensuring that during normal operation, intersite traffic will only use the MPLS VPN service and not the old Frame Relay service?

- A. virtual links
- B. sham links
- C. multiple stub areas
- D. super backbone

Answer: B (LEAVE A REPLY)

Explanation/Reference:

Explanation:

NEW QUESTION: 254

What is the way that an OSPF ABR uses to prevent summary route information from being readvertised from an area into the network core (Area 0)?

- A. It advertises only inter-area summaries to the backbone.
- B. It uses poison reverse and split horizon.
- C. It only sends locally originated summaries to the backbone.
- D. It compares the area number on the summary LSA to the local area.

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

Section: (none)

Explanation/Reference:

NEW QUESTION: 255

In a Cisco ACI environment, which option best describes "contracts"?

- A. a Layer 3 forwarding domain
- B. a set of interaction rules between endpoint groups
- C. to determine endpoint group membership status
- D. named groups of related endpoints

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

NEW QUESTION: 256

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

Answer: (SHOW ANSWER)

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NEW QUESTION: 257

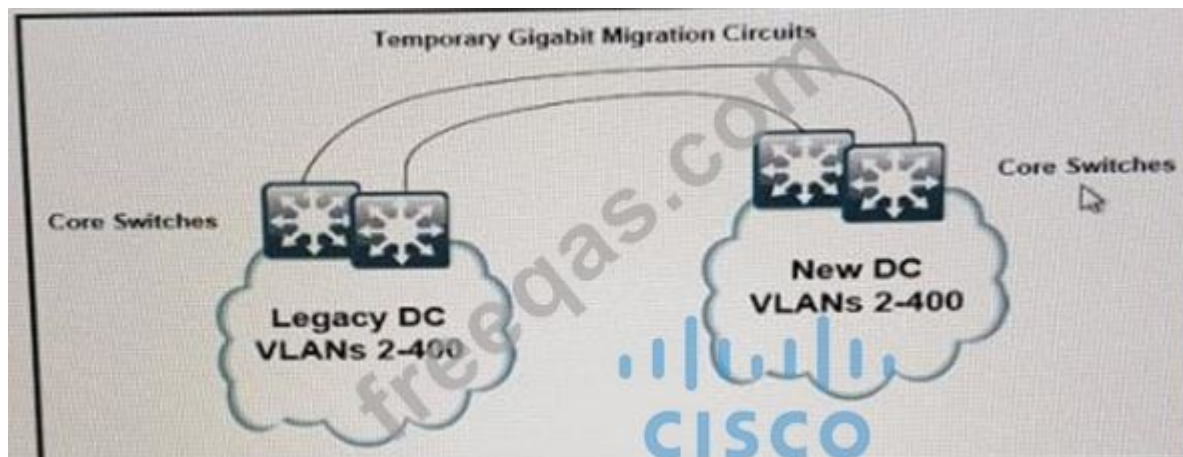
When adding an IPSec headend termination device to your network design, which two performance indicators are the most accurate to determine device scalability? (Choose two.)

- A. bandwidth capabilities
- B. maximum tunnel termination capabilities
- C. CPU capabilities
- D. packets per second capabilities

Answer: B,D (LEAVE A REPLY)

NEW QUESTION: 258

Exhibit:



You are designing a data center migration from one location to another, which requires all existing VLANs spanned to the new data center to maintain host IP addressing. Two temporary Gigabit Ethernet circuits are available to extend the VLANs at Layer 2 to the location as trunk links between core switches in each location. Which solution provides maximum fault isolation between the two data centers to ensure a Layer

Issue in one data center does not affect the other during the migration?

- A. Enable STP PortFast on host ports within each data center
- B. Perform HSRP filtering over the trunk links to maintain active HSRP gateways within each data center for each VLAN
- C. Perform BPDU filtering over the trunk links
- D. Run the dual links as multichassis Etherchannel trunk between core switches within each location

Answer: C (LEAVE A REPLY)

NEW QUESTION: 259

A Company has these requirements for access to their wireless and wired corporate LANs using 802.1x Clients devices that corporate assets and have joined the active directory domain are allowed access Personal devices must be not allowed access Clients and access servers must be mutually authenticated.

Which solution meets these requirements?

- A. EAP-TLS with user authentication

- B. Protected EAP/Microsoft CHAP v2 with user authentication
- C. Protected EAP/Microsoft CHAP v2 with Machine authentication
- D. EAP-TLS with machine authentication

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

NEW QUESTION: 260

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, but leave the ABR function on the data center aggregation routers.
- B. Add a layer of regional Layer 2 aggregation devices, but leave the ABR function on the data center aggregation routers.
- C. Add a layer of regional Layer 3 aggregation devices and move the ABR function to the regional aggregation device.
- D. Add a layer of regional Layer 2 aggregation devices and move the ABR function to the regional aggregation device.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

NEW QUESTION: 261

When designing a network that consists of multiple IPv6 multicast servers on a Layer 2 VLAN, which option should you consider regarding IPv6 multicast traffic forwarding?

- A. IPv6 multicast flooding optimization requires Layer 2 switches support of MLD snooping.
- B. IPv6 multicast addresses are assigned based on network prefix.
- C. IPv6 multicast addresses are assigned by IANA.
- D. The RP IP address is embedded in IPv6 multicast address.

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

NEW QUESTION: 262

An enterprise customer A with provider-independent address space is dual-homed to two ISP. Which two options , when combined, allow for customer A to efficiently achieve out- bond traffic load-balancing? (Choose two)

- A. Advertise Customer A subnets with different MED values to the two ISPs
- B. Make the CE connected to both ISPs route reflector
- C. Advertise Customer A subnets with a shorter AS path prepend to one of the ISPs than to the other
- D. Accept the routes originated on both ISPs and their direct peers
- E. Accept a default route from both ISPs

Answer: (SHOW ANSWER)

NEW QUESTION: 263

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: 264

Which tunneling mechanism provides confidentiality and tunneling capabilities?

- A. L2TPv3
- B. IPsec ESP
- C. IPsec AH
- D. MPLS L3VPN

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 265

Select and Place:

Drag the fast convergence mechanisms on the left and drop them into the objectives that they accomplish.

Link-State Partial SPF	Fast Detection
IP Event Dampening	
BFD	Slow Network Reaction When Event
Link-State Incremental SPF	
Link-State Exponential Backoff	
	Fast Route Calculation



Answer:

Drag the fast convergence mechanisms on the left and drop them into the objectives that they accomplish.

Fast Detection

Slow Network Reaction When Ev

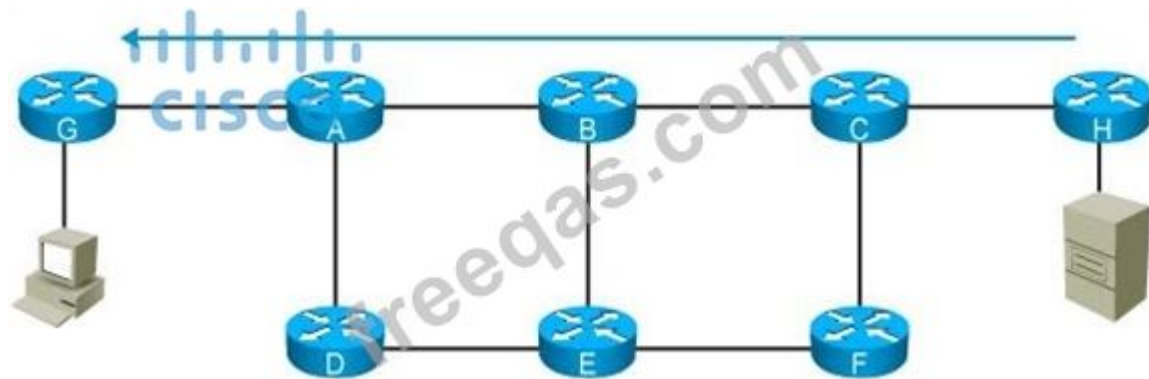
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Fast Route Calculation

L

NEW QUESTION: 266

Refer to the exhibit.



This network is running IS-IS as the single routing protocol and the LSP and SPF timers are aggressively configured so the network converges in subsecond. The customer reports that router B had a memory crash and reloaded. Which resulted in some packets from the application being lost. The application servers are behind router G and the end users are behind router H, which design change should be made to prevent this packet-loss problem from reoccurring?

- A. Enable the advertisement of the overload bit for a specific amount of time after reload on router B
- B. Redesign the network as a flat level 2
- C. Optimize the LSP/SPF timers to send LSPs immediately after a topology change
- D. Deploy all links as point-to-point
- E. Use asymmetric carrier delay timer

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

NEW QUESTION: 267

Which two statements correctly describe OSPF flooding? (Choose two.)

- A. Type 11 Opaque LSAs have area-local flooding scope.
- B. Type 1 and Type 2 LSAs have an area scope and are flooded only within an area boundary.
- C. Type 5 LSAs are converted to Type 7 LSAs in an NSSA area.
- D. OSPF areas help in containing the flooding scope and hiding topology details of other parts of the network.

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

Section: (none)

Explanation/Reference:

NEW QUESTION: 268

A planned EBGP network will use OSPF to reach the EBGP peer addresses. Which of these conditions should be avoided in the design that could otherwise cause the peers to flap continuously?

- A. The OSPF area used for peering is nonbackbone (not area 0).
- B. The routers are peered by using a default route sent by OSPF.
- C. An ACL blocks TCP port 179 in one direction.
- D. IP addresses used to peer are also being sent via EBGP.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 269

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

- * The Frame Relay WAN infrastructure will be replaced with an MPLS VPN service.
- * BGP is the PE-CE routing protocol adopted for this scenario.
- * There are 3000 routes in the routing database of the distribution routers.
- * All 3000 routes will be advertised from the access routers through the MPLS network.
- * The service provider that provides this MPLS VPN service supports only 1000 prefixes per VRF.

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

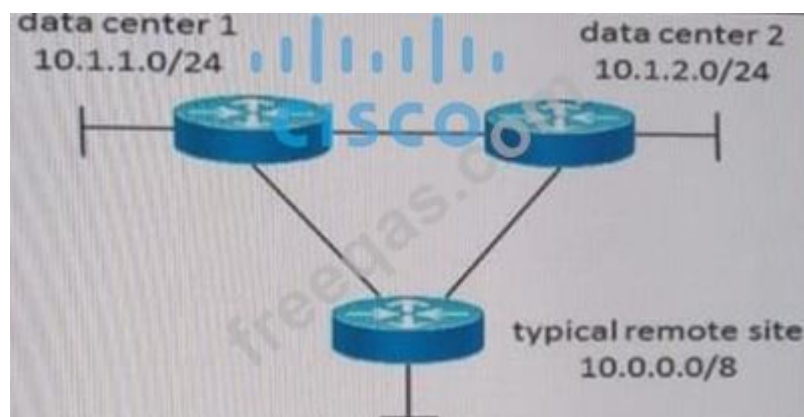
- A. Use prefix lists on the distribution routers to control which routes are sent to the MPLS network
- B. Configure the distribution routers to send a default route to the MPLS network
- C. Configure null routes and aggregate routes for the prefixes in your network on the distribution routers
- D. 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: C,E ([LEAVE A REPLY](#))

Section: Evolving Technologies

NEW QUESTION: 270

Refer to the exhibit.



A customer currently has a large EIGRP-based network with several remote sites attached.

All remote sites connect to the two corporate data centers, depicted as 10.1.1.0 and

10.1.2.0. The customer has experienced several network-wide failures where neighbors were stuck-in-active and had other network stability issues due to some links flapping.

Which two redesign options increase stability and reduce the load on the remote site routers, still maintaining optimal routing between remote sites and the two data centers?

(Choose two)

- A. Perform summarization at the data centers, selectively leaking routes sent to the remote sites
- B. Set the hello interval timer to be larger than the hold interval
- C. Perform summarization at the remote sites, selectively leaking routes sent to the data centers
- D. Set the data center routers as stub-routers
- E. Increase the hold interval to accommodate lost hello packets on error-prone links

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

NEW QUESTION: 271

You are designing an IEEE 802.1X solution for a customer, where the network supports a large number of IP phones and printers. You plan to configure MAC address bypass for the phones and printers. What is your primary design and security concern?

- A. the scaling of the MAC address database
- B. the additional AAA traffic on the network
- C. the placement of the AAA server
- D. the potential of MAC address spoofing

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

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NEW QUESTION: 272

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: 273

Which filter type will you use for all nontransit networks running BGP with multiple, peering, autonomous systems?

- A. an IGP filter to prevent internal routes from being transmitted to outside autonomous systems
- B. a BGP route count filter to prevent the nontransit network routing tables from becoming overwhelmed
- C. a BGP filter to prevent locally originated routes from being transmitted to both peering autonomous systems
- D. a BGP filter to prevent routes learned from one peer from being readvertised to the other peer

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

Section: (none)

Explanation/Reference:

NEW QUESTION: 274

A certain service provider network has IPsec tunnels between PE router loopbacks and dual-homed PE routers. The service provider carries infrastructure routes by use of OSPF and carries tunnel endpoints by using BGP. What should the service provider do to provide fast convergence in the event of a link failure in its network?

- A. tune OSPF on all routers
- B. carry IPsec tunnels in GRE among PE routers
- C. carry IPsec tunnels in L2TPv3 among PE routers
- D. carry IPsec tunnels in VPLS among PE routers

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

Section: (none)

Explanation/Reference:

NEW QUESTION: 275

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. DTP
- B. BPDU Guard
- C. Loop Guard
- D. Root Guard
- E. PortFast

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

NEW QUESTION: 276

Fibre Channel, or FC, is a gigabit-speed network technology primarily used for storage networking. Fibre Channel is standardized in the T11 Technical Committee of the InterNational Committee for Information Technology Standards (INCITS), an American National Standards Institute (ANSI) C accredited standards committee. Which two of these correctly describe Fibre Channel? (Choose two.)

- A.** supports multiple protocols
- B.** works only in a shared or loop environment
- C.** allows addressing for up to 4 million nodes
- D.** provides a high speed transport for SCSI payloads

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 277

You are reviewing a new data center design for a customer. They chose to leverage a tunnel-based overlay technology for quick deployment and multitenant security. Which design concern can affect the availability across the data center?

- A.** nonoverlapping IP address space between the overlay networks
- B.** proper placement of STP root bridge in overlay networks
- C.** review placement of STP root bridge in overlay networks
- D.** review of common paths on the underlay links
- E.** MTU size on the underlay links

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 278

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

Answer: ([SHOW ANSWER](#))

Section: Evolving Technologies

Explanation/Reference:

NEW QUESTION: 279

You are working on a network design plan for a company with approximately 2000 sites. The sites will be connected using the public Internet. You plan to use private IP addressing in the network design, which will be routed without NAT through an encrypted WAN network. Some sites will be connected to the Internet with dynamic public IP addresses, and these addresses may change occasionally. Which VPN solution will support these design requirements?

- A.** GET VPN must be used, because DMVPN does not scale to 2000 sites.

- B. DMVPN must be used, because GET VPN does not scale to 2000 sites.
- C. GET VPN must be used, because private IP addresses cannot be transferred with DMVPN through the public Internet.
- D. DMVPN must be used, because private IP addresses cannot be transferred with GET VPN through the public Internet.
- E. GET VPN must be used, because DMVPN does not support dynamic IP addresses for some sites.
- F. DMVPN must be used, because GET VPN does not support dynamic IP addresses for some sites.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 280

You have been asked to deploy BGP across a satellite link system to a small number of retail stores.

What must you do to successfully deploy BGP in this situation?

- A. manually configure static routes to back up BGP across the satellite link
- B. configure the initial window size, maximum MTU, and TCP keepalive parameters
- C. set the BGP hold timer to under one second
- D. configure all the BGP peering sessions across the satellite links as EBGP

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

NEW QUESTION: 281

When using LDAP servers, you should configure the password policy to prevent _____.

- A. DoS attacks
- B. man-in-the-middle attacks
- C. dictionary attacks
- D. flood attacks

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 282

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: 283

While adjusting the LSA generation time in OSPF, which two factors should be taken into consideration?

(Choose two.)

- A. number of locally generated LSAs

- B. interface stability
- C. target convergence time
- D. size of the area

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

Section: (none)

Explanation/Reference:

NEW QUESTION: 284

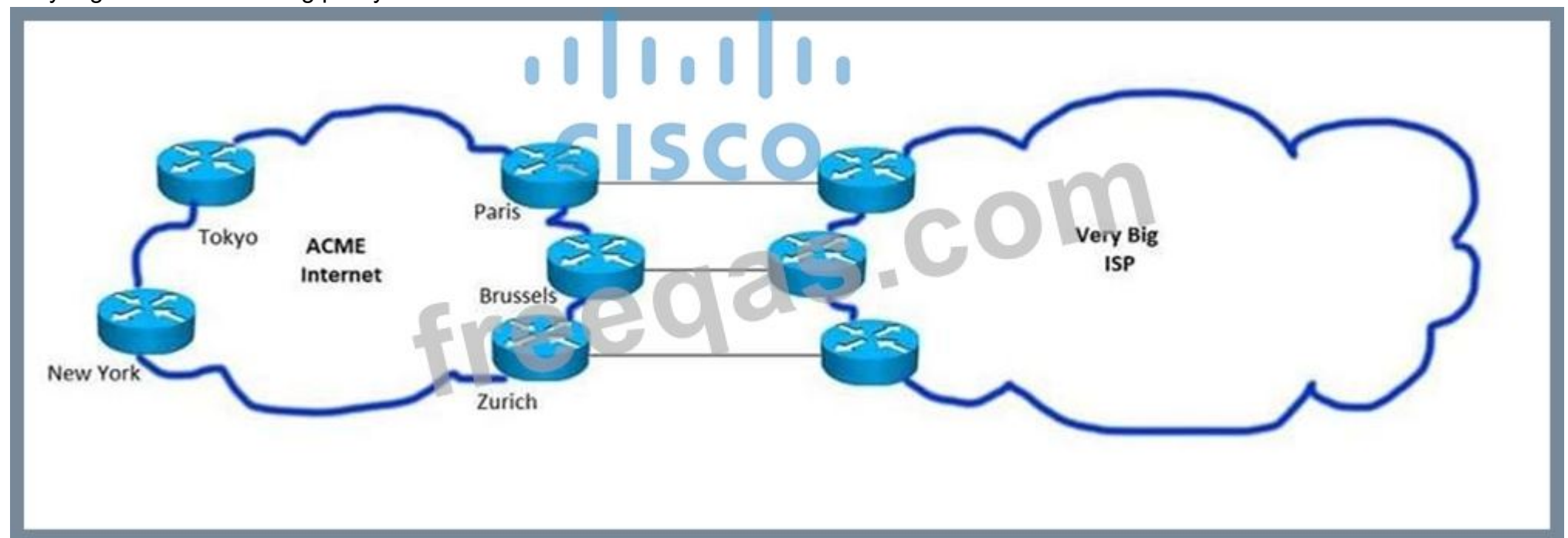
Which statement describes the main difference between the Layer 2 loop-free inverted U design and the Layer 2 loop-free U design?

- A. A loop-free U design has all uplinks active, but a loop-free inverted U design does not.
- B. A loop-free U design extends VLANs between access switches, but a loop-free inverted U design does not.
- C. A loop-free U design extends VLANs between distribution switches, but a loop-free inverted U design does not.
- D. A loop-free inverted U design has all uplinks active, but a loop-free U design does not.

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

NEW QUESTION: 285

Refer to the exhibit. The service provider ACME Internet just added a 100 Gbps 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 send to Very Big ISP via Paris
- C. Use traffic engineering by injecting a preferred LocalPref attribute to routes advertised to Very Big ISP in Paris
- D. Apply an export policy in Paris by applying a MED or Community attribute with a preference that Very Big ISP acts upon

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

NEW QUESTION: 286

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

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

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 287

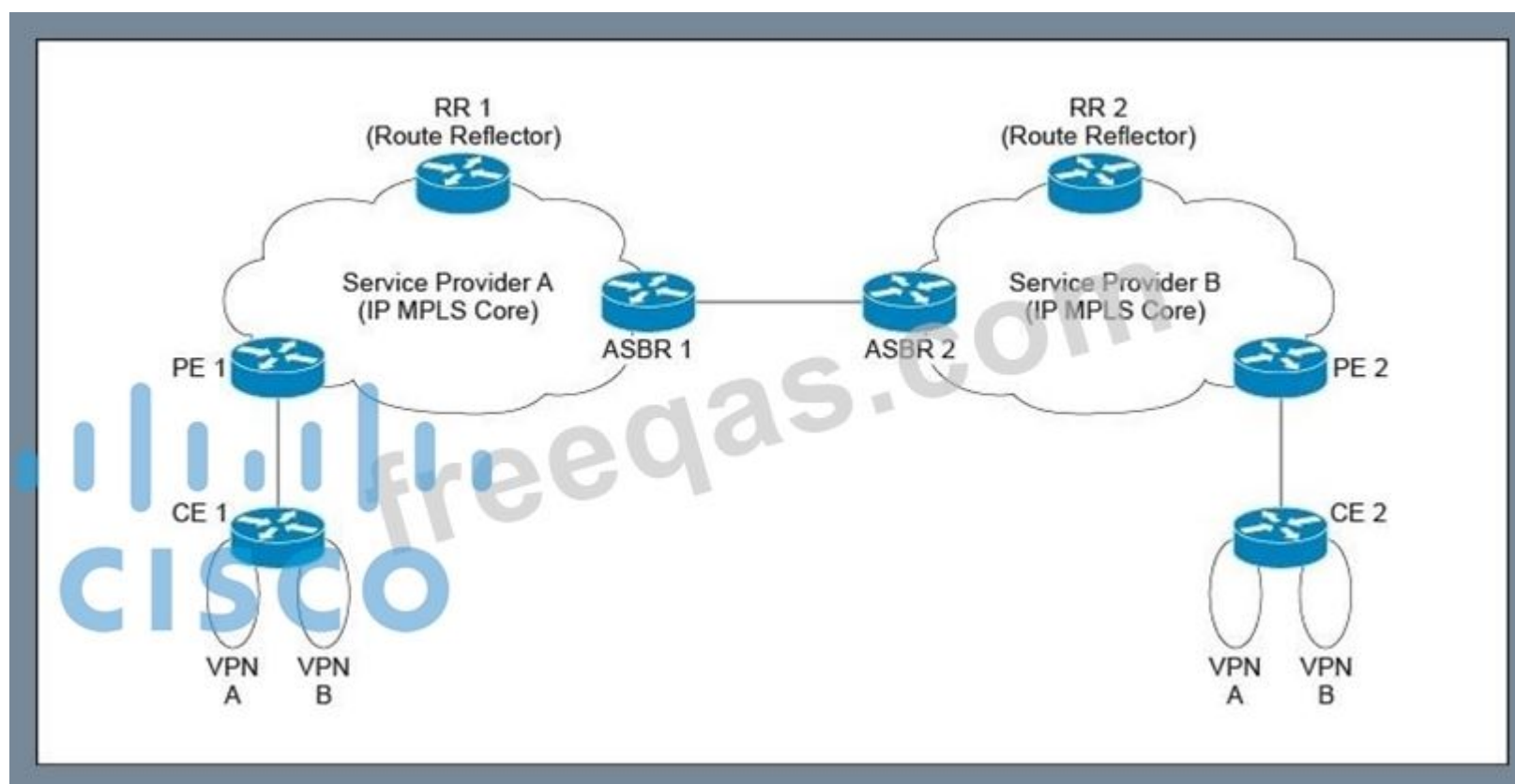
Which workflow-based software solution provides automation and orchestration processes for compute, network, and storage with support for these features? single-pane infrastructure management, support for multiple hypervisors, storage provisioning with EMC and NetApp, abstraction of hardware and software elements into more than 1000 programmable workflows, self-provisioning of virtual machines using catalogs.

- A. Cisco Intelligent Automation for Cloud
- B. OpenStack
- C. Ansible
- D. Cisco UCS Director

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

NEW QUESTION: 288

Refer to the exhibit.



Service Provider A and Service Provider B have agreed to a strategic interconnect relationship that will allow them access into each other's geographies by using an inter-AS eBGP VPNv4 multihop between route reflectors. Which two options will accomplish this scenario? (Choose two.)

- A. ASBR 1 and ASBR 2 act as inline route reflectors that set themselves as the next-hop.
- B. An LSP is formed between ASBR 1 and ASBR 2 using eBGP VPNv4.
- C. RR 1 and RR 2 peer using multihop eBGP VPNv4 to exchange prefixes.
- D. RR 1 and RR 2 peer using multihop eBGP IPv4 to exchange prefixes.
- E. An LSP is formed between ASBR 1 and ASBR 2 using eBGP IPv4.

Answer: C,E (LEAVE A REPLY)

NEW QUESTION: 289

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



Answer:



NEW QUESTION: 290

What are two reasons to choose L2TPv3 over other technologies for a VPN solution?

(Choose two.)

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

Answer: A,D (LEAVE A REPLY)

NEW QUESTION: 291

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.

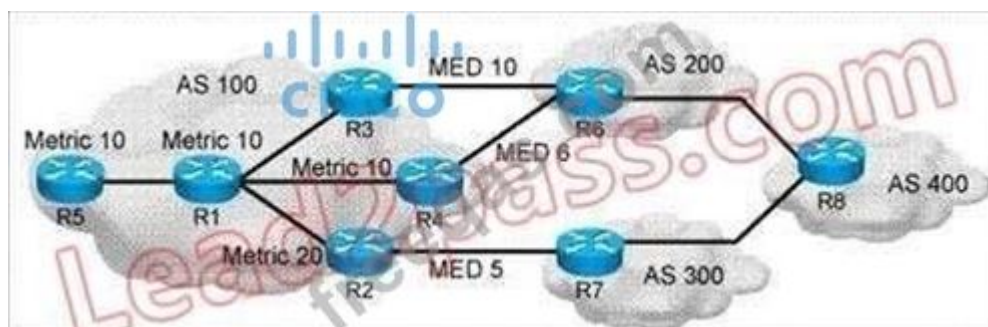
Answer: B,E (LEAVE A REPLY)

Explanation/Reference:

Explanation:

NEW QUESTION: 292

Refer to the exhibit. In this BGP setup, 10.1.1.0/24 is advertised by AS 400 to its peers. Border routers in AS 100 reset the next-hop router to themselves. R2, R3, and R4 are route reflector clients of R1 and R5 is a non-client iBGP peer of R1. What is the BGP next hop on R5 for the address 10.1.1.0/24?



- A. R6
- B. R2
- C. R4
- D. R3
- E. R1

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 293

Which three statements about EIGRP route summarization are correct? (Choose three.)

- A. By default, EIGRP automatically summarizes internal routes, but only each time a major network boundary is crossed.
- B. By default, all EIGRP routes are automatically summarized; all routes will be summarized unless the no-auto summary command is configured.
- C. Summary routes are inserted in the routing table with a next hop of null 0 and a high administrative distance, to prevent black holing of traffic.
- D. The metric for each summarized route is inherited from the lowest metric of the component routes.
- E. EIGRP route summarization can reduce the query diameter to help prevent SIA problems.

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

NEW QUESTION: 294

A service provider wants to offer a service that allows customers to span VLANs across multiple campuses.

Which configuration will allow this service provider to achieve its desired result with a minimal impact on the scalability of PE routers?

- A. RFC 2547-based service, with L2TPv3 between PE and CE
- B. RFC 2547-based service, with MPLS/LDP between PE and CE (in other words, CsC)
- C. VPWS service, with QinQ between PE and CE
- D. VPWS service, with 802.1Q between PE and CE

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

NEW QUESTION: 295

A company wants to use an external appliance between its data center and WAN to optimize email and HTTP communications. The traffic flow must pass this appliance in both directions. The appliance is connected with only one interlace to a Cisco IOS router and has a single IP address Which two adjustments can you make to the network design so that the appliance is added into the traffic path? (Choose two)

- A. Configure static routes to route the traffic to the appliance
- B. Configure NAT to force the traffic to the appliance
- C. Configure a route map at the data center-side interface to forward the traffic to the appliance IP address
- D. Configure a route map at the appliance-facing interface to forward the traffic to the appliance IP address.
- E. Configure a route map at the WAN-side interface to forward the traffic to the appliance IP address
- F. Adjust the dynamic routing to route the traffic to the appliance

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

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