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NEW QUESTION: 1

Which two options are characteristics of DMVPN as related to IP multicast? (Choose two.)

- A. The RP should be placed either in the core network or on the DMVPN headend.
- B. The RP is typically placed at the spoke router.
- C. The source of the multicast stream is typically placed at the core.
- D. When the multicast source is at a spoke, the data flows directly towards the spokes that want to receive the traffic.
- E. Multicast on DMVPN is similar in behavior to the broadcast multi-access network.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 2

A network designer decides to connect two labs together to test multicast features interoperability. Before the networks are connected together, the network administrator mentions that overlapping multicast IP addresses between the two labs will cause issues because all the routers on the network are provisioned for Source-Specific Multicast using IGMPv3. Which statement about the connectivity of both multicast domains is true?

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 3

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.)

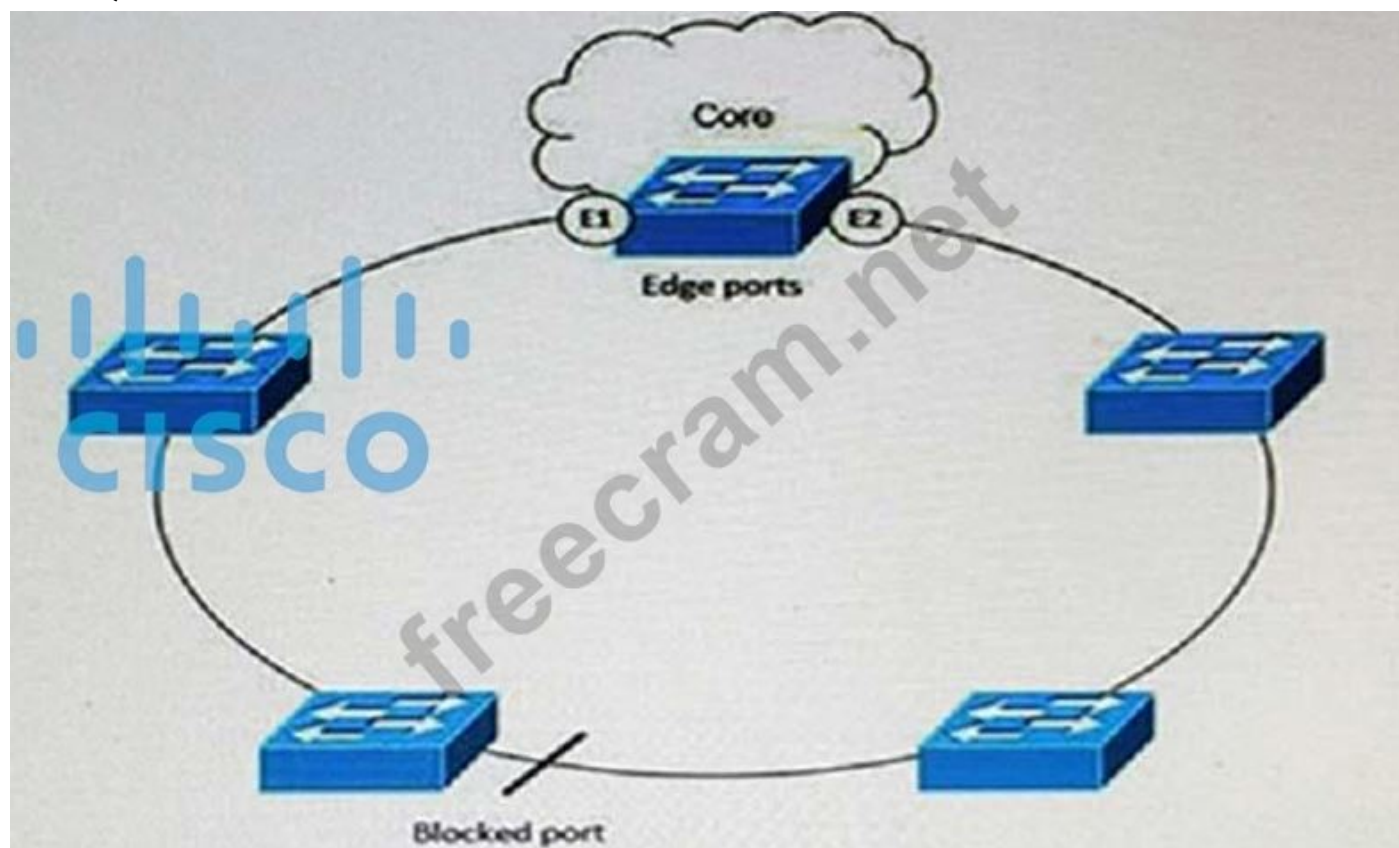
- A. A broadcast network will always work through ATM networks.
- B. A broadcast network will work when the broadcast support is explicitly configured at the ATM network.
- C. Explicit neighbor statements are required when a nonbroadcast network is configured.
- D. Explicit neighbor statements are required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

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 4



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

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

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

- A. If a link fails, then the alternate ports quickly unblock. When the failed link comes back up, a physically blocked port per VLAN is selected with minimal disruption to the network.

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

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

Explanation/Reference:

Explanation:

REP segments have the following characteristics:

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

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

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

all VLANs to ensure connectivity.

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

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

References:

NEW QUESTION: 5

You are designing a wireless LAN with the following components:

- High-density indoor access point deployment

- 2.4-GHz and 5-GHz radios

- 802.11a, 802.11g, and 802.11n mode wireless LAN clients

Site survey results show negligible foreign WiFi and non-WiFi interference. What is the best method to decrease duty cycle (radio frequency utilization) and increase overall wireless LAN client performance for this design?

- A.** Disable all data rates below 12 Mb/s on all access points.
- B.** Decrease radio transmit power on all access points that report a high duty cycle.
- C.** Increase radio transmit power on all access points that report a high duty cycle.
- D.** Disable all data rates above 12 Mb/s on all access points.

E. Increase radio transmit power on all access points.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 6

A service provider has a Resilient Ethernet Protocol ring running as a metro backbone between its locations in one city. A customer wants to connect one site with one box redundant to the Resilient Ethernet Protocol ring at two different service provider locations. How can this be done without producing any Layer 2 loops within the network design?

- A. Spanning tree at the service provider side only must be enabled.
- B. Spanning tree at the customer side only must be enabled.
- C. Flex Links at the service provider side only must be enabled.
- D. Flex Links at the customer side only must be enabled.
- E. EtherChannel at the service provider side and the customer side must be enabled.
- F. Spanning tree at the service provider side and the customer side must be enabled.
- G. Flex Links at the service provider side and the customer side must be enabled.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 7

You are tasked to design a QoS policy for a service provider so they can include it in the design of their MPLS core network. If the design must support an MPLS network with six classes, and CEs will be managed by the service provider, which QoS policy should be recommended?

- A. map DSCP bits into the Exp field
- B. map IP precedence bits into the DSCP field
- C. map flow-label bits into the Exp field
- D. map IP CoS bits into the IP Precedence field
- E. map IP ToS bits into the Exp field

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 8

The campus consists of four main buildings with a single router at each location. A single Ethernet connection exists between each building. Which two EIGRP metrics should be made equal in the network redesign to ensure proper load sharing? (Choose two.)

- A. Bandwidth
- B. Load
- C. Delay

D. Reliability

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 9

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

A. Reduce the number of routes within an area

B. Route tagging capability

C. Simplify logical topology

D. Enhance failure detection

E. Reduce SPF algorithm runs.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 10

A. a framework for enterprise IP Address Management (IPAM) based on the IANA trusted IP lease allocation scheme

B. an ISO framework that establishes a model for network management and contains guidelines for managing objects, the management database, and the application entity

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

D. a series of tools for process improvement that uses statistical methods to reduce defects in processes and manufacturing

E. a framework for enterprise architecture that provides a comprehensive approach for designing, planning, implementing, and governing enterprise information architecture

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

References:

NEW QUESTION: 11

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

A. Reduce the MTU on both ends of the TCP connection

B. Reduce the MTU on the side closest to the client

C. Reduce the MTU only in the WAN

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

Answer: ([SHOW ANSWER](#))

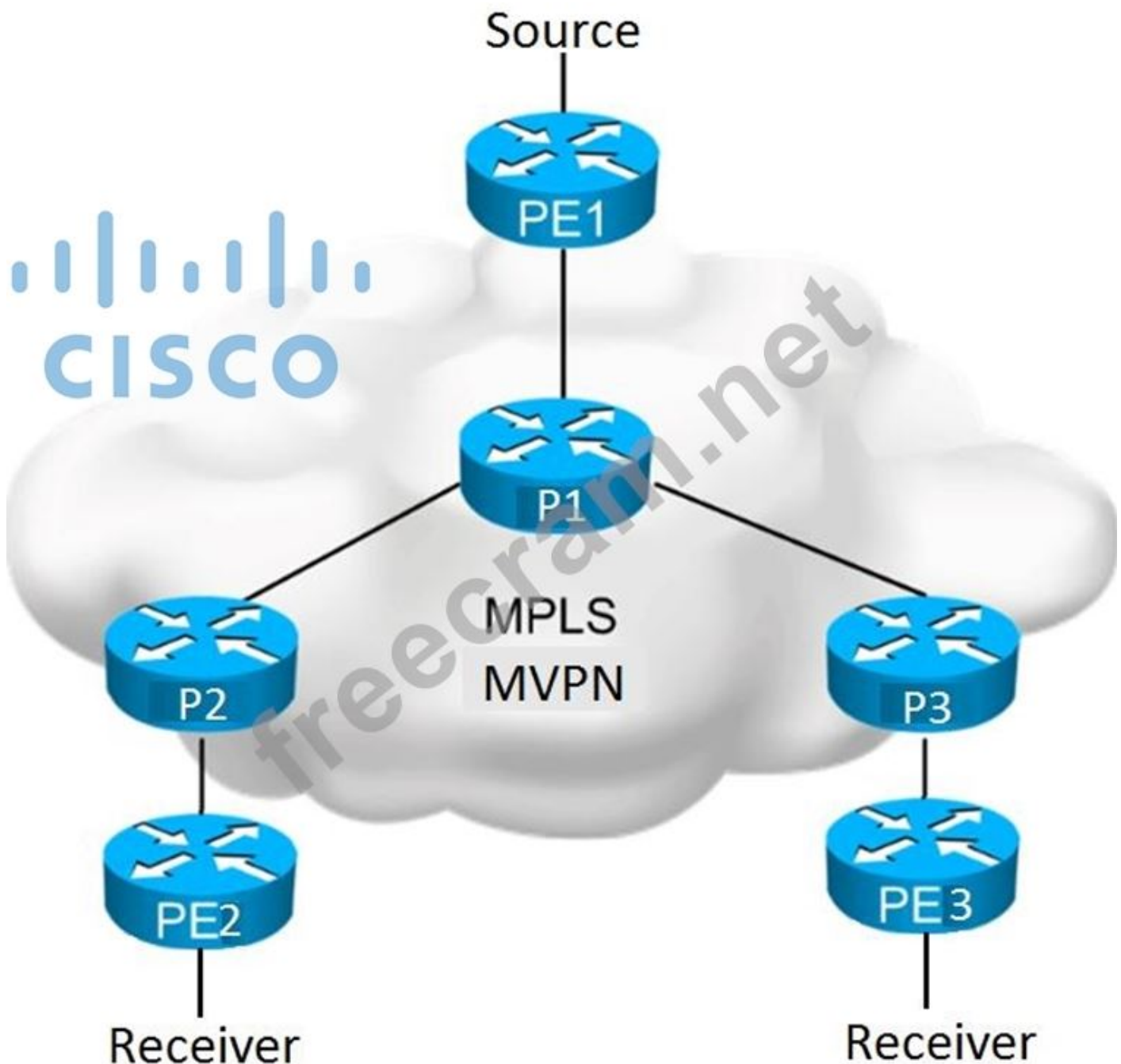
NEW QUESTION: 12

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

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 13



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

▪ Multicast services must be provided for Layer 3 VPN customers

▪ The same forwarding technology must be used as Layer 3 VPN unicast packets

▪ Replication of multicast traffic is not allowed on the ingress PE

Which multicast VPN technology conforms to the design requirements?

A. Rosen Draft using LDP

B. MLDP VPN

C. MSDP

D. multipoint-to-point LDP

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 14

Which mechanism enables small, unmanaged switches to plug into ports of access switches without risking switch loops?

A. PortFast

B. BPDU guard

C. UDLD

D. root guard

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 15

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

A. 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.

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 source address of the multicast packet is checked in the unicast routing table. If the multicast packet arrived from the interface that matches with the interface to reach the source address, this packet fails the RPF check.

D. The 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.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 16

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: (SHOW ANSWER)

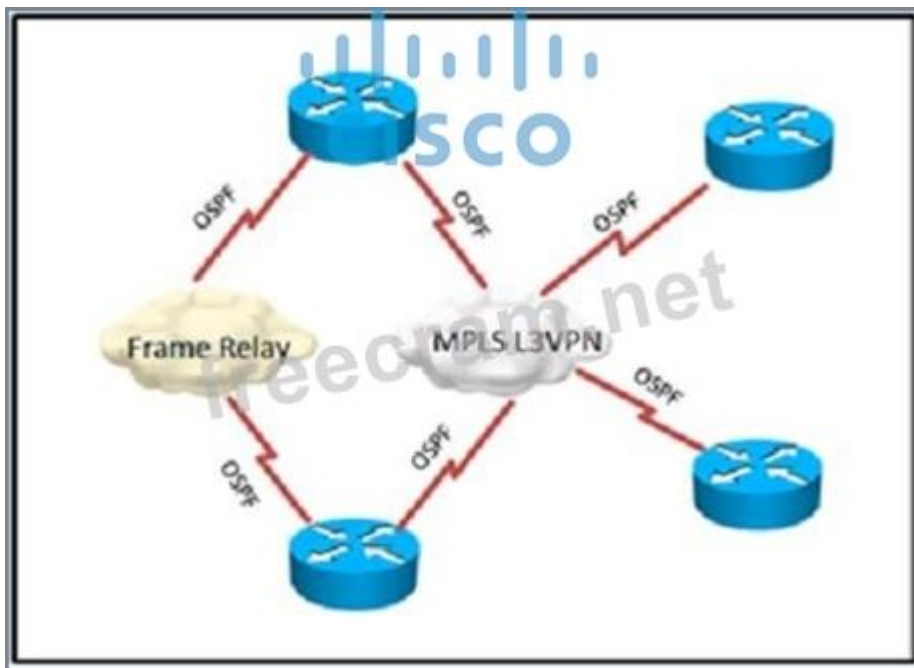
Explanation/Reference:

Explanation:

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NEW QUESTION: 17

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: 18

You have been asked to design a remote access VPN solution to support up to 2000 devices. You must ensure that only corporate assets are allowed to connect to the VPN, and users must authenticate to gain access based on their user role. Users must use a password that they are already using to access existing applications. A user may not always use the same device to access the VPN. Which two options combined meet the requirement? (Choose two.)

- A. Deploy an IPsec VPN solution
- B. Deploy certificates that are unique to each user
- C. Deploy a SSL VPN solution
- D. Deploy a central authentication directory that users can be authenticated and authorized against
- E. Deploy certificates that are unique to each device
- F. Use local usernames and passwords on the VPN device

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

NEW QUESTION: 19



Refer to the exhibit. Why is a route leaking mechanism needed in this large, unified MPLS network with end-to-end BGP labeled prefixes and IS-IS multilevel areas as the IGP?

- A. for PE management such as Telnet or SNMP
- B. to leak routes from the Layer 2 backbone to the Layer 1 areas
- C. to build an LSP between the PE routers
- D. to announce PE loopbacks from other IS-IS areas into the Layer 2 backbone area

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

Explanation/Reference:

Explanation:

References:

NEW QUESTION: 20

- 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: 21

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

- A. QoS classification and marking boundary
- B. fault isolation
- C. fast transport
- D. redundancy and load balancing
- E. reliability

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 22

Today most of the enterprises are selecting container technologies that require integration with their existing data centers and infrastructure solutions. With which three factors do enterprises most commonly struggle to enable their current IT operations staff with? (Choose three.)

- A. cost avoidance
- B. data security
- C. compliance
- D. virtualization
- E. performance and availability
- F. data analytics
- G. scalability

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 23

Refer to the exhibit. Assume that no multicast optimization is done on LAN switches A and B.

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



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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 24

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

- A. Set LFI on the WAN connections to interleave the small voice packets with the large data packets
- B. Enable VRF-Lite on the CE router to create a separate voice VRF
- C. Use a low bitrate codec such as G.729
- D. Set voice activity detection to avoid sending packets when the conversation is silent
- E. Use a low bitrate codec such as G.711
- F. Set WAN optimization on the CE router to compress the voice packets for improved bandwidth utilization and performance

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 25

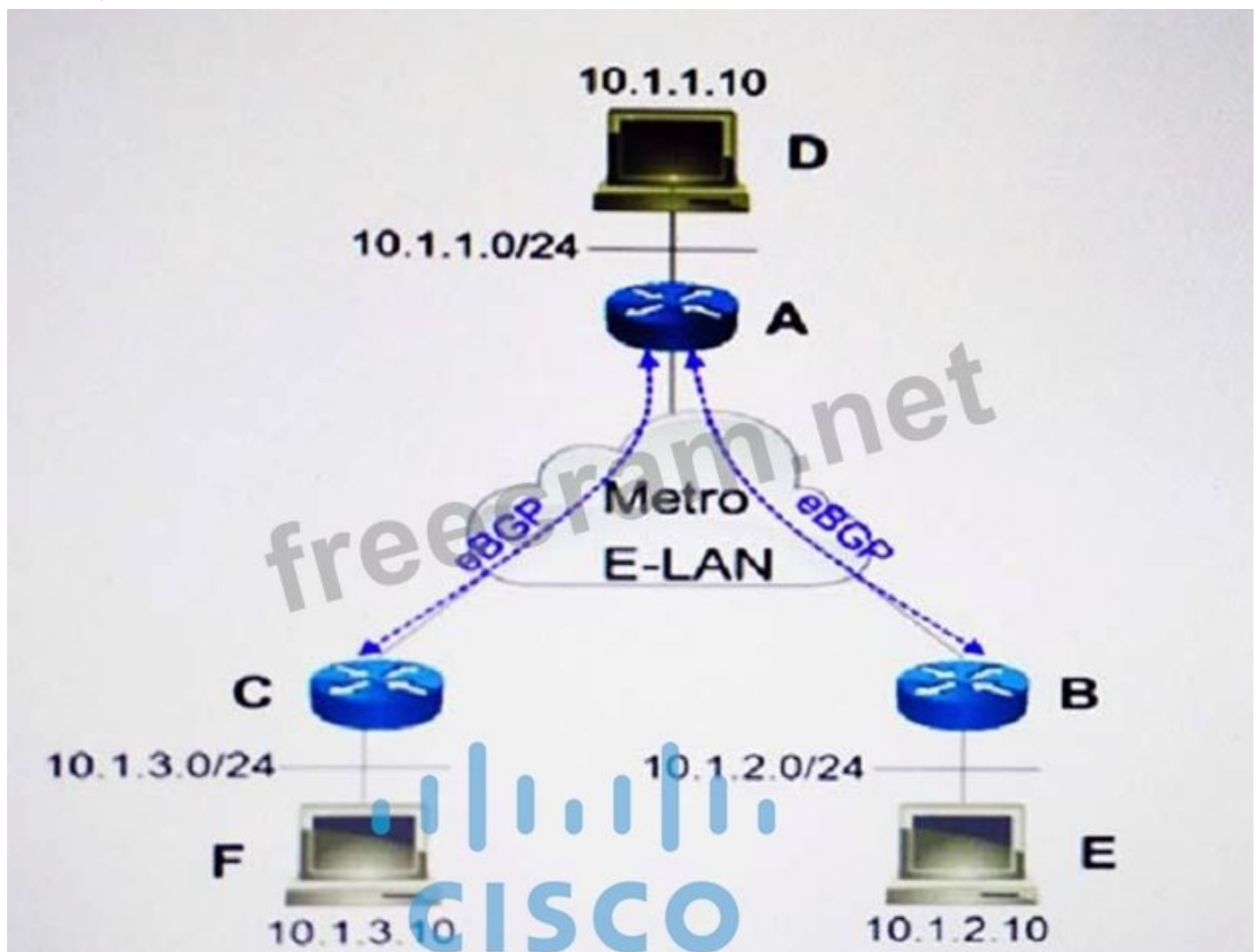
A large service provider network has a single-level IS-IS network with 500 routers. This network has short-haul and long-haul links. Periodically, long-haul links bounce for a short period of time, causing 10 to 20 flaps in a few minutes. The probable cause is local road construction. Although

fast convergence is important, a design engineer is concerned about taxing CPU cycles on the older routers. Which solution protects the CPU of the older routers during the short periods of excessive flapping, yet has no impact on fast convergence for all interface failures?

- A. Implement a delay between successive IS-IS LSP packet transmissions on routers with long-haul links
- B. Implement LSP generation throttling on routers with long-haul links
- C. Modify the length of time that an LSP remains in the router database without being refreshed on all routers
- D. Modify hello timers on routers with short-haul links

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 26



Refer to the exhibit. Company A migrated from Frame Relay WAN to Metro-Ethernet E-LAN service.

Router B and C have only eBGP neighbor adjacency with router A using their Metro-Ethernet IP addresses. What happens when host E sends a packet to host F?

- A. Packet goes from router B to A and C.
- B. Packet is dropped by router B.
- C. Packet goes from router B to C.

D. Packet goes from router B to A and is dropped by router A due to the split-horizon rule.

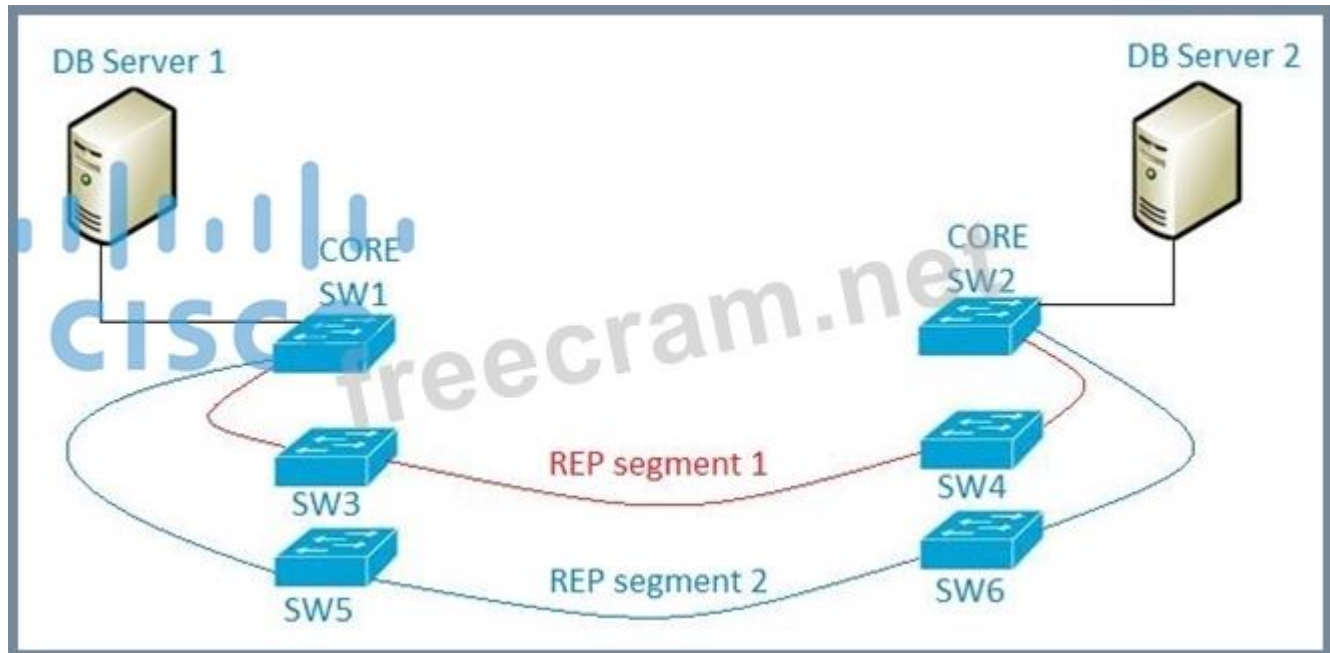
Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 27

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



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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 28

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

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

NEW QUESTION: 29

What are three common objectives for customers using multiple cloud providers? (Choose three.)

- A. high availability
- B. bandwidth
- C. analytics
- D. security
- E. feature disparity
- F. regional provider access

Answer: (SHOW ANSWER)

NEW QUESTION: 30

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

Answer: (SHOW ANSWER)

NEW QUESTION: 31

What is the key design principle for the core layer when using a classic hierarchical network model?

- A. It is designed first, followed by the distribution layer and then the access layer.
- B. It controls access to resources for security.
- C. It provides server access in a small campus.
- D. It should be configured with minimal complexity.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

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NEW QUESTION: 32

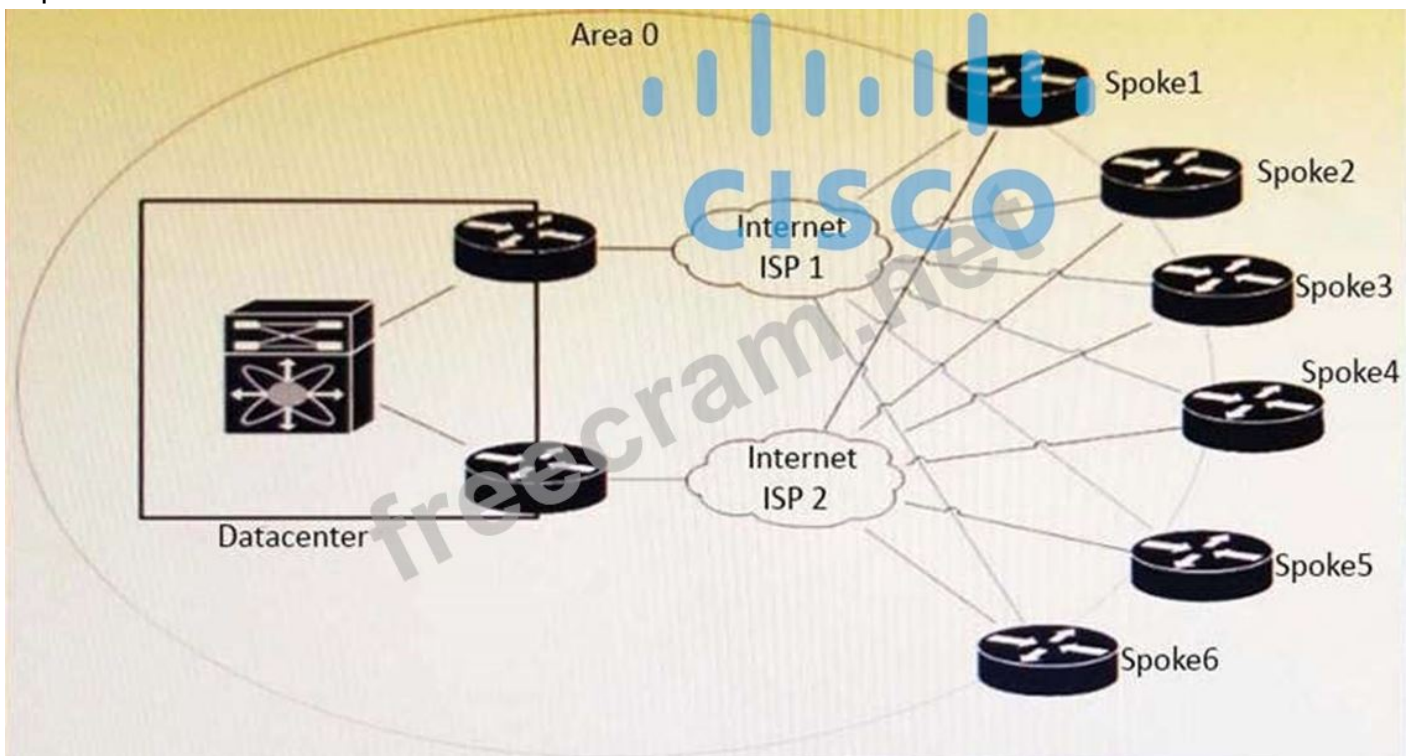
An existing wireless network was designed to support data traffic only. You must now install Context Aware services for location tracking. Which two changes must be applied to the existing wireless network to increase the location accuracy? (Choose two.)

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 33

Refer to the exhibit. This DMVPN network is running OSPF in a single area. A network engineer notices that traffic destined to the data center from one of the spokes is using another spoke as the next hop. It is preferred that all traffic destined to the data center uses the least amount of hops.



Which solution resolves this issue with the minimum amount of changes on the network?

- A. Modify OSPF cost metrics on all backup links
- B. Migrate from OSPF to EIGRP between the hub routers and the spoke routers
- C. Migrate from OSPF to static routes between the hub routers and the spoke routers and deploy IP SLA for route health checks

D. Create areas between each hub and their spoke routers, to ensure that the hub routers become DRs

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 34

Which feature must be part of the network design in order for the router to wait a predetermined amount of time before notifying the routing protocol of a change in the path in the network?

- A.** interface dampening
- B.** SPF hold time
- C.** throttle timer
- D.** transmit delay

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 35

An enterprise company is attaching to a new Gigabit Ethernet-based link from the local service provider.

This connection must have a 150 Mbps committed information rate. For the design of this new service, which QoS mechanism must be used to ensure low packet loss within the service provider network?

- A.** shaping
- B.** CBWFQ
- C.** LLQ
- D.** policing

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 36

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

- A.** LSA throttling
- B.** link-state incremental SPF
- C.** IP event dampening
- D.** link-state partial SPF
- E.** SPF throttling

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 37

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

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

D. 1901 2 NB-PLC

E. 802.22

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 38

A large enterprise customer has more than 300 worldwide locations, each with at least two different WAN connections to their five regional data centers across US, Europe, and Asia. These data centers offer different application services and work as primary, with a remote data center as backup. You must provide a solution to securely select the traffic path for specific applications based on an IT policy. Which solution allows the easiest management of the path decision from the data center sites?

A. Add Cisco MPLS TE devices in the data centers and activate Cisco MPLS TE

B. Set up each center with its own AS and use BGP AS-PATH prepend configuration

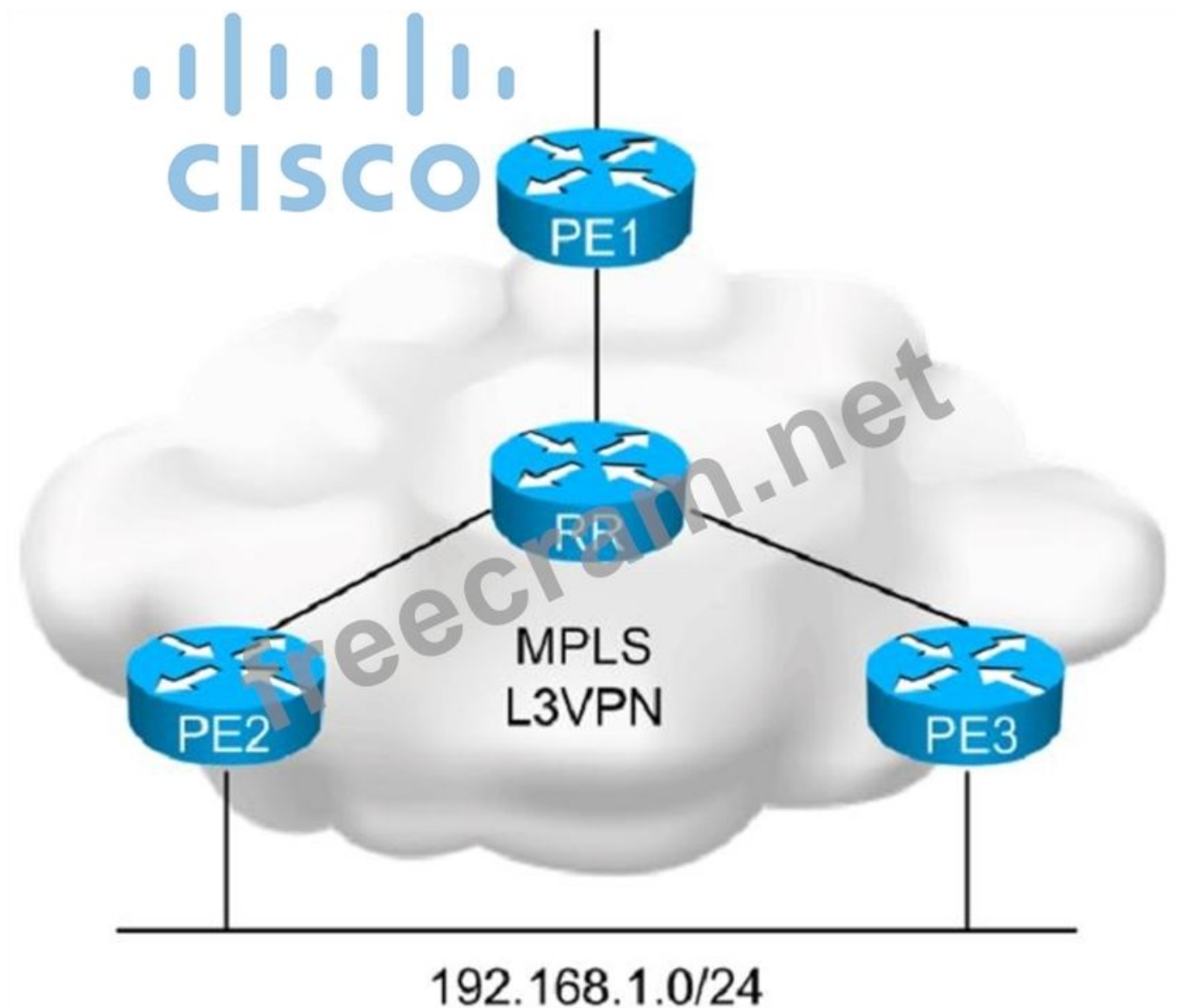
C. Apply policy-based routing at each remote site

D. Use LISP over the current WAN

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 39

Refer to the exhibit.



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

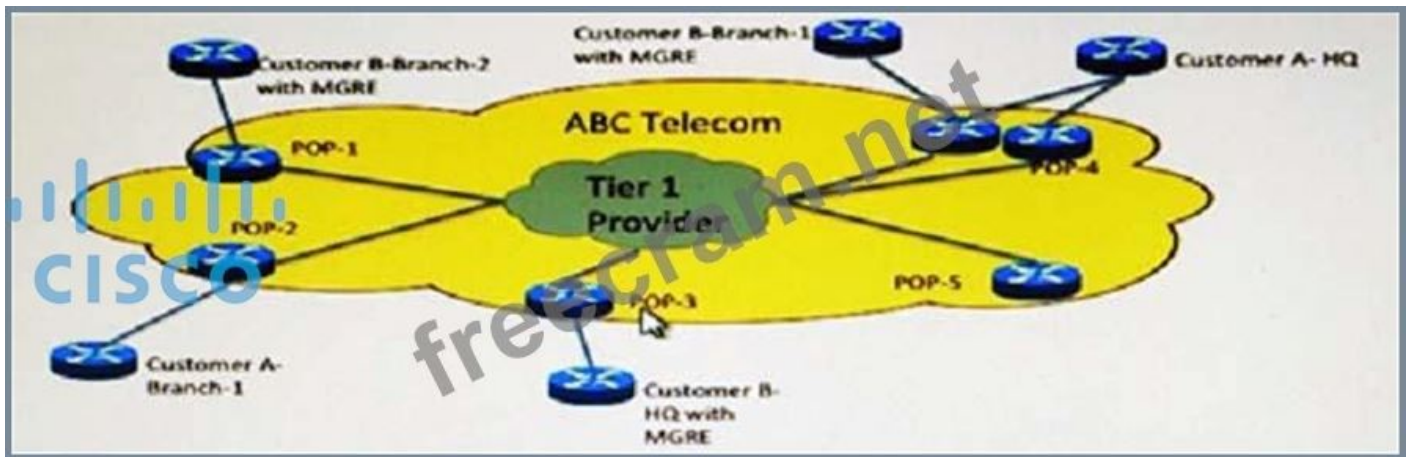
- A. nonmatching route distinguishers
- B. matching route target values
- C. disable split horizon on PE2 and PE3
- D. matching route distinguishers

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 40



Refer to the exhibit. Company ABC is a Tier 3 service provider that offers Layer 2 and Layer 3 transport for small/medium enterprise customers in the US. Most of their network is built on Layer 2 MPLS circuits from a Tier 1 provider. Many Company ABC customers are using overlay VPN technologies and independent routing protocols, and they are affected with unacceptable convergence time after every major outage in the core of the Tier 1 provider. Which long-term redesign increases network availability?

- A. Customers replace their own overlay VPN service with the Company ABC Layer 3 VPN service.
- B. Customers fine tune their routing protocol for faster convergence
- C. Company ABC replaces the Layer 2 MPLS circuit from the Tier 1 service provider with dark fiber/ DWDM-based transport.
- D. Company ABC should adopt a full-mesh POP connectivity.

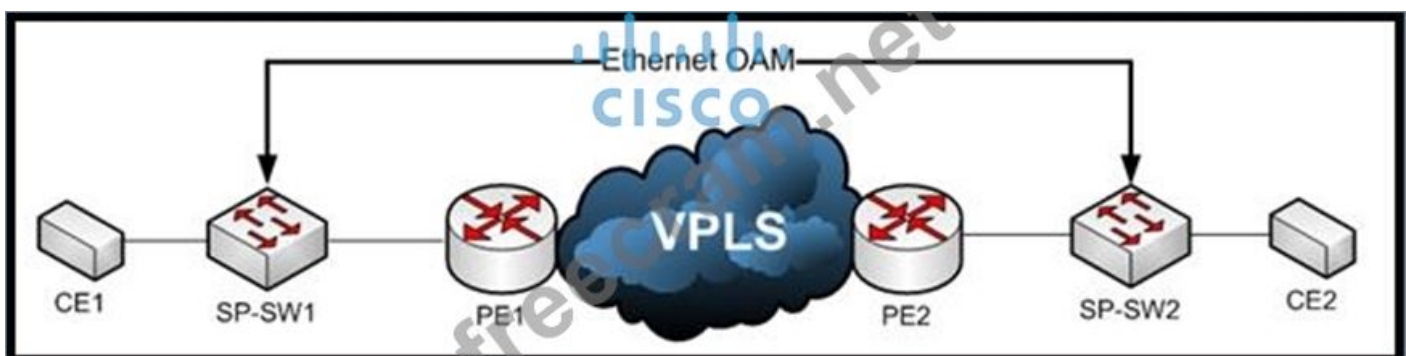
Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 41

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 Y.1731 Connectivity Fault Management on the SP switches.
- B. E-LMI PDUs must be forwarded over VPLS.
- C. Cisco Discovery Protocol PDUs must be forwarded over the VPLS.

- D. Use upward maintenance endpoints on the SP switches.
- E. Enable IEEE 802.1ag Connectivity Fault Management on the SP switches.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 42

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

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 43

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

- A. UDLP
- B. spanning tree bridge assurance
- C. link aggregation group
- D. Ethernet OAM

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 44

What is a correct design consideration of IPv6 MLD snooping?

- A. MLD snooping conserves CPU by sharing IPv4 and IPv6 multicast topology.
- B. MLD snooping conserves bandwidth on switches.
- C. MLD snooping is used to filter all MLD queries.
- D. MLD snooping requires IGMP snooping to be implemented.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 45

Which routing protocol requires minimal reconfiguration when establishing a MPLS Layer 3 VPN over DMVPN encrypted using GETVPN?

- A. OSPF
- B. RIP
- C. IS-IS

D. BGP

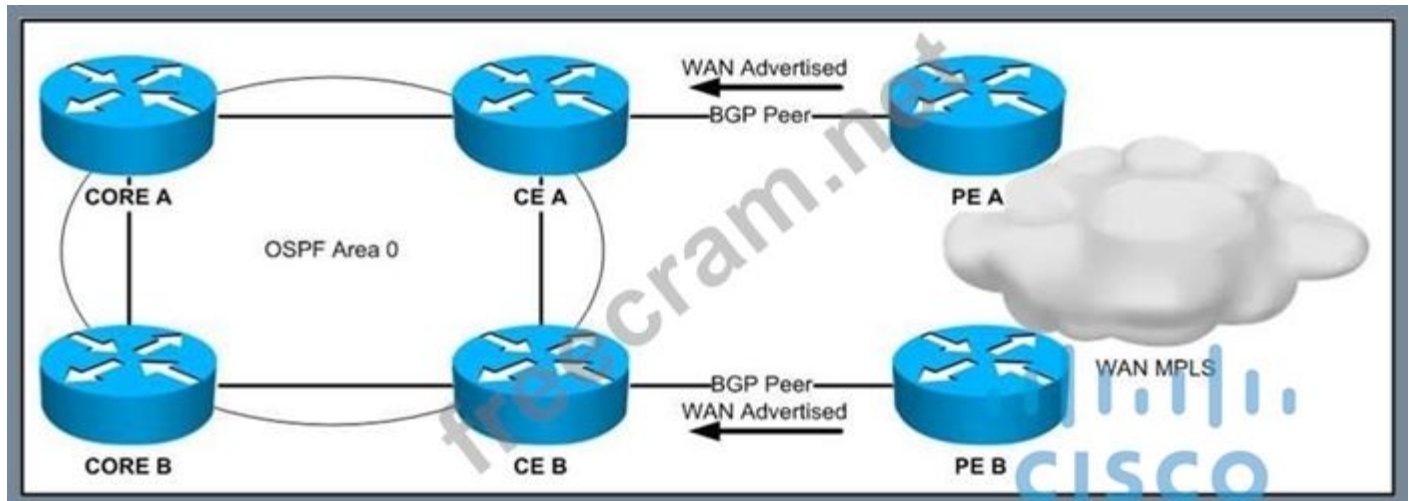
Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 46

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: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

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NEW QUESTION: 47

When developing an MVPN design, which performance and scalability consideration must be taken into account?

- A. CE end-to-end PIM adjacency establishment
- B. multicast data sent to all PE routers on the default MDT
- C. RP placement in the multicast VRF
- D. RP placement in the customer network

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 48

A retail company has 250 branches connected to the core via MPLS Layer 3 VPN. The company is migrating from traditional telephony services to a VoIP solution. Which two primary concerns when implementing a VoIP solution are true? (Choose two.)

- A. available bandwidth
- B. jitter
- C. SRST
- D. call routing design
- E. MTU
- F. call routing design

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 49

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

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

Answer: ([SHOW ANSWER](#))

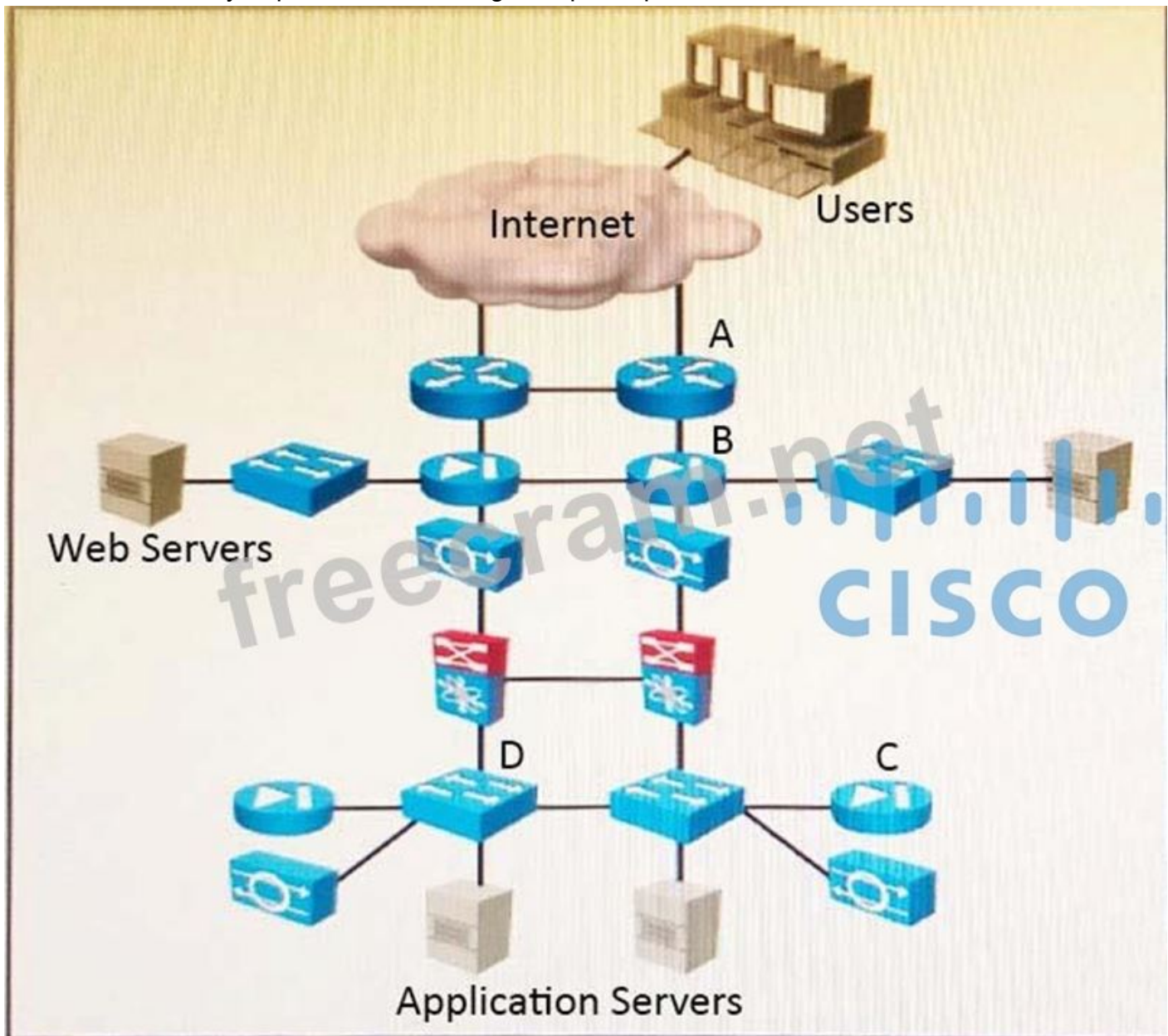
NEW QUESTION: 50

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 51

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



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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 52

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 the CE and 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 PE devices

D. The IP MTU must be the same on both CE devices

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 53

Which ISAKMP feature can be used to reduce device CPU load by not sending keepalive messages for known active ISAKMP security associations?

A. DPD

B. IKEv2

C. SPI

D. main mode

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 54

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

A. MST

B. TRILL

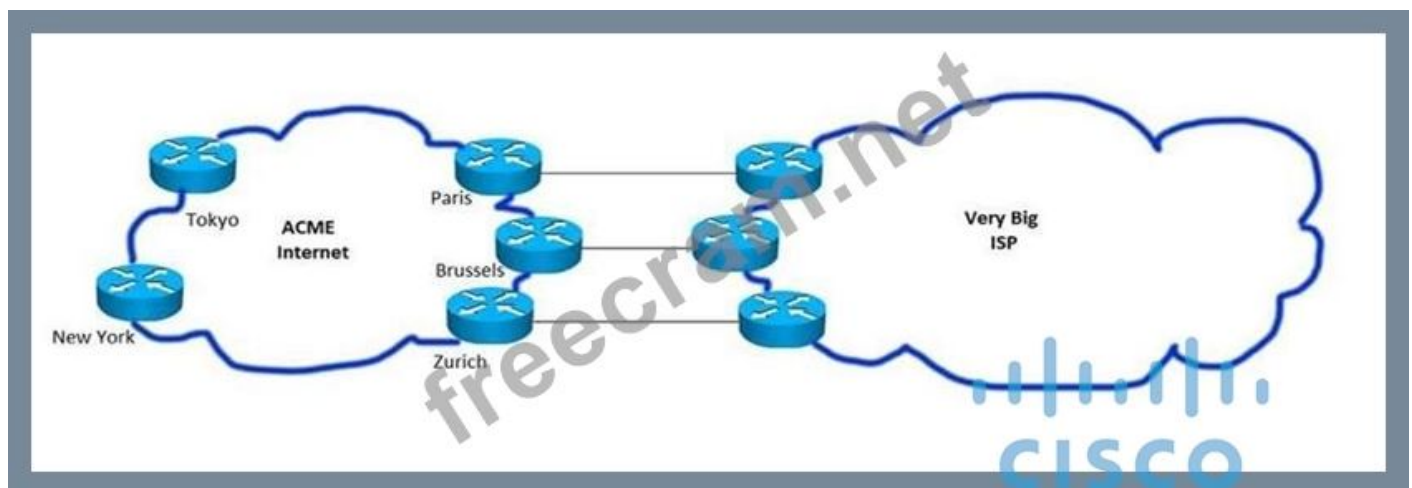
C. RSTP

D. Ethernet Ring Protection Switching

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 55

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: 56

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

(Choose two.)

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 57

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.** proper 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
- E.** review placement of STP root bridge in overlay networks

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 58

After a large EIGRP network had automatic summarization enabled throughout, it started experiencing routing loops. Which action should you take to quickly resolve the routing loops yet continue to perform summarization?

- A.** Redistribute connected routes at major IP network boundaries.
- B.** Redesign the IP addressing scheme.
- C.** Increase the AD of the automatically summarization with more specific summary routes.
- D.** Replace the automatic summarization with more specific summary routes.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 59

Which two features can be used to extend VRFs across a campus? (Choose two.)

- A.** 802.1q trunks

- B. LDP
- C. MPLS TE
- D. GRE
- E. port channels

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 60

- A. To gradually degrade the Ethernet rings' performance when it becomes saturated.
- B. To make full use of Ethernet rings' redundant paths.
- C. To achieve fast failover between two upstream Ethernet ring paths to the network core.
- D. To prevent loops on Ethernet rings.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 61

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

It must include the ability to virtualize the data plane and control plane by using VLANs and VRFs.

It must maintain an end-to-end logical path transport separation across the network.

Resources available grouped at the access edge.

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

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

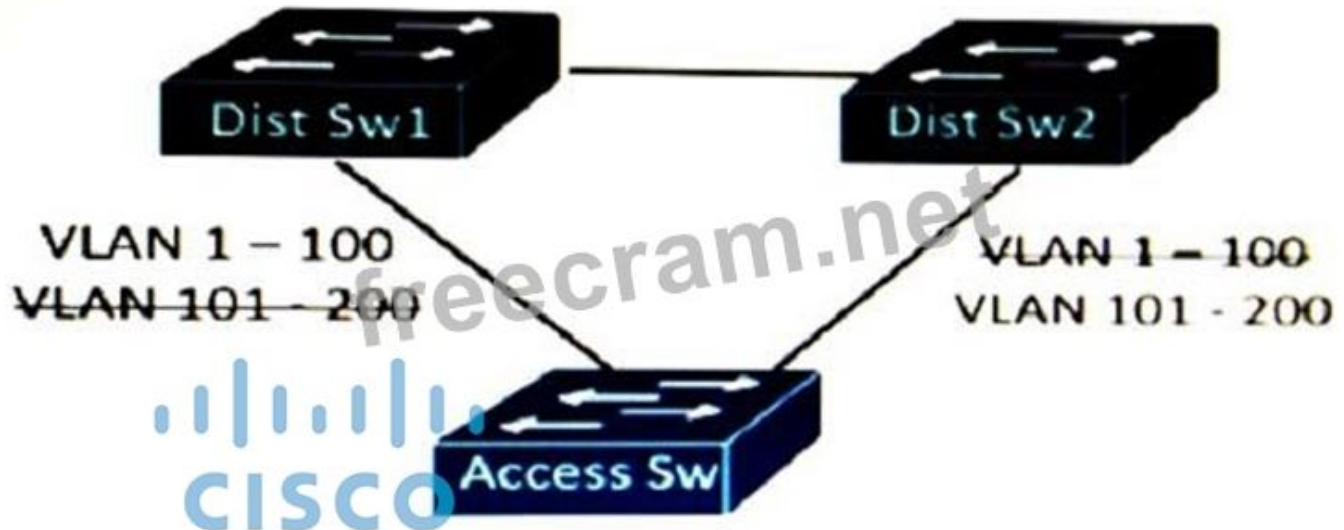
Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 62



Refer to the exhibit.

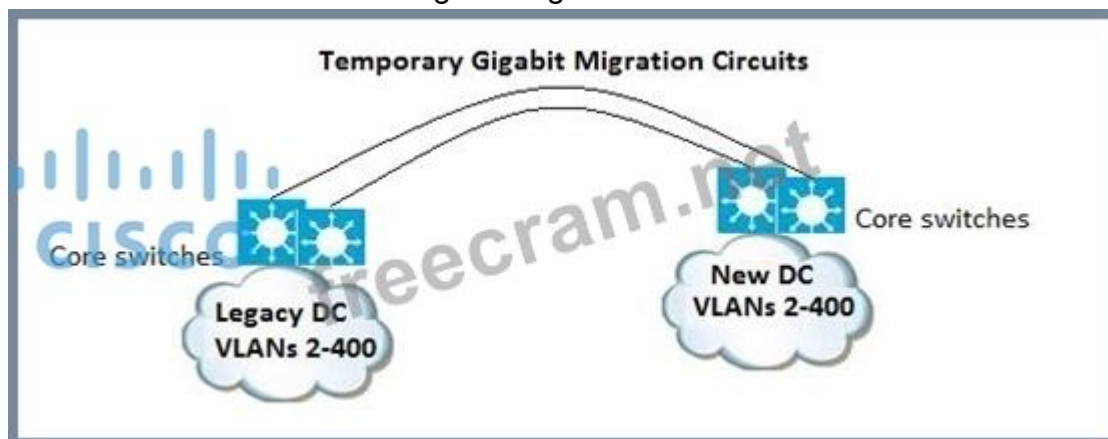
This Layer 2 network is expected to add 150 VLANs over the next year, in addition to the existing 50 VLANs within the network. Which STP type will support this design requirement using the least amount of CPU resources and achieving load-balancing?

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 63

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. Run the dual links as multichassis EtherChannel trunk between core switches within each location

- B. Perform HSRP filtering over the trunk links to maintain active HSRP gateways within each data center for each VLAN
- C. Enable root guard on the trunk ports at the legacy DC site
- D. Perform BPDU filtering over the trunk links

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 64

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

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 65

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

- A. It is a way to discard unwanted routes.
- B. It is a feature used to loadbalance traffic across multiple link.
- C. It is a feature used to preventrouting loops.
- D. It is used to reduce the EIGRP querying domain to create stability and faster convergence.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 66

Which markup language is used to format Ansible's playbook?

- A. XML
- B. YAML
- C. ADML
- D. HTML
- E. NAML

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 67

A small to medium-sized enterprise customer has a campus network that consists of 10GE and 40GE wired links with an Internet access link of 1GE to the service provider. The network connects to the Internet using redundant firewalls. Sometimes user traffic saturates the core

network links. The customer wants to deploy deep packet inspection for monitoring traffic generated by its staff leaving the customer network.

Which place in the network should you recommend DPI to be deployed?

- A. at the data center
- B. in the core layer
- C. in the WAN
- D. at the Internet gateway
- E. at the access layer

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 68

You are implementing a one-to-many multicast solution for a large service provider network.

Which technology offers optimal routing of multicast traffic?

- A. PIM sparse mode
- B. PM SSM
- C. Anycast RP
- D. MSDP
- E. Bidirectional PIM

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Before you begin the PIM configuration process, decide which PIM mode to use. This is based on the applications you intend to support on your network. Use the following guidelines:

In general, if the application is one-to-many or many-to-many in nature, then PIM-SM can be used successfully.

For optimal one-to-many application performance, SSM is appropriate but requires IGMP version

3

support.

References:

NEW QUESTION: 69

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

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

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 70

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

The CEs cannot run a routing protocol with the PE

- Provide the ability for equal or unequal ingress load balancing in dual-homed CE scenarios

- Provide support for IPv6 customer routes

- Scale up to 250,000 CE devices per customer

- Provide low operational management to scale customer growth

- Utilize low-end (inexpensive) routing platforms for CE functionality

Which tunneling technology do you recommend?

A. LISP

B. point-to-point GRE

C. FlexVPN

D. DMVPN

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 71

A large ISP is analyzing the following IGP requirements:

- The network must be resilient against unstable MTU in one side for newly deployed transmission equipment.

- The network must support MPLS traffic engineering solution for future use.

Which IGP must be selected and why?

A. OSPF: in case of MTU changes, your TE tunnels keep the LSP stable

B. IS-IS: in case of MTU changes, your TE tunnels keep the LSP stable

C. IS-IS: the adjacency remains up even if MTU changes

D. OSPF: the adjacency remains up even if MTU changes

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 72

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: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 73

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

- A.** IPsec
- B.** GRE
- C.** VPLS
- D.** MPLS Layer 3 VPN
- E.** L2TPv3

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

NEW QUESTION: 74

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: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 75

Your customer wants to migrate their network from IPv4 to IPv6. They currently have Control Plane Policing deployed to protect their network devices from illegitimate ICMP traffic flooding. How do you adjust Control Plane Policing for ICMPv6 traffic, if it should be adjusted at all?

- A.** ICMPv6 must be policed to the ICMPv4 lower value because the ICMPv6 packet size is bigger

- B. The customer must pay special attention to the ICMPv6 rate limiting policy because it has additional functionality in the LAN
- C. Unlike ICMPv4, ICMPv6 must never be policed because it has additional functionality in the LAN
- D. The policy must remain the same for ICMPv4 and ICMPv6

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 76

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

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

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

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NEW QUESTION: 77

VPLS is implemented in a Layer 2 network with 2000 VLANs. What is the primary concern to ensure successful deployment of VPLS?

- A. VLAN scalability
- B. The underlying transport mechanism
- C. Flooding is necessary to propagate MAC address reachability information
- D. PE scalability

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

NEW QUESTION: 78

Which three network management requirements are common practices in a network design? (Choose three.)

- A. Collect SNMP poll information for future regression analysis
- B. Validate data plane health, application, and services availability with synthetic traffic

- C. Collect RMON poll information for future regression analysis
- D. Ensure that all network devices have their clocks synchronized
- E. Look at inconsistent and bursty KPIs such as CPU utilization and interface utilization
- F. Capture ingress and egress flow-based packets, while avoiding duplication of flows

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 79

Which solution prevents microloops from being formed during network convergence time?

- A. RSVP-TE
- B. LFA
- C. prefix suppression
- D. RLFA

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

NEW QUESTION: 80

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

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 81

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

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 82

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 backbone fast on all devices to accelerate failure convergence times

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 83

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

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

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

Explanation/Reference:

Explanation:

References:

NEW QUESTION: 84

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



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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 85

A service provider plans on implementing IPv6 using 6PE. What are two drawbacks of the 6PE approach?

(Choose two.)

- A.** The MPLS routers should have IPv6 enabled before they can respond to ICMPv6 messages.
- B.** The label allocation mode is per-prefix so the label table grows as the BGP table increases.
- C.** A single RIB and FIB is required for each connected customer so scalability issues can arise in the future.
- D.** It is a disruptive way to introduce IPv6 into an existing MPLS service.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 86

You are designing a FabricPath network that connects to a spine-and-leaf topology using Layer 2 IS-IS as the IGP. The solution should be able to detect changes in the network topology and calculate loop-free paths to other nodes in the network that are being used as top-of-rack switches.

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

- A.** FabricPath Layer 2 IS-IS uses the standard IS-IS functionality to populate up to 16 routes for a given destination switch.
- B.** The FabricPath domain should be replaced because it does not run STP.
- C.** The interfaces in a FabricPath network run only the FabricPath Layer 2 IS-IS protocol with FTags disabled.
- D.** Each switch computes its shortest path to every other switch in the network using the SPF algorithm.
- E.** To use the basic FabricPath functionality, you must configure IS-IS on every interface between the leaf- and-spine switches.
- F.** The switch operating system uses multiple equal-cost, parallel links that provide ECMP.
- G.** This path is used for forwarding unicast FabricPath frames.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

The software sends hello packets on the FabricPath core ports to form adjacencies. After the software forms IS-IS adjacencies, the FabricPath unicast traffic uses the equal cost multipath (ECMP) feature of Layer 2 IS-IS to forward traffic. ECMP provides up to 16 paths for unicast traffic.

FabricPath Layer 2 IS-IS is based on the standard IS-IS protocol with the following extensions for the FabricPath environment:

FabricPath has a single IS-IS area with no hierarchical Layer 1/Layer 2 routing as prescribed within the

▪

IS-IS standard. All switches within the FabricPath network are in a single Layer 1 area. The switch uses a MAC address that is different from the MAC address used for Layer 3 IS-IS instances.

The software adds a new sub-TLV that carries switch ID information, which is not in standard IS-IS.

This feature allows Layer 2 information to be exchanged through the existing IS-IS protocol implementation.

Each switch computes its shortest path to every other switch in the network using the shortest-path first

(SPF) algorithm. This path is used for forwarding unicast FabricPath frames. FabricPath Layer 2 IS-IS uses the standard IS-IS functionality to populate up to 16 routes for a given destination switch. The software uses multiple equal-cost available parallel links that provide ECMP.

FabricPath IS-IS introduces certain modifications to the standard IS-IS in order to support the construction of broadcast and multicast trees (identified by the FTags). Specifically, using FabricPath, the software constructs two loop-free trees for forwarding multidestination traffic.

References:

NEW QUESTION: 87

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

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

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 88

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: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 89

Which BFD design consideration is true?

- A. BFD cannot be used with RSVP-TE backup tunnels
- B. BFD echo mode may reduce convergence time
- C. BFD does not support sessions over MPLS LSPs
- D. BFD can support only one session per protocol on the same link

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 90

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

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 91

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

(Choose two.)

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

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 92

When designing fast convergence on a network using a loop-free alternate, on which two bases can the next-hop routes be precomputed? (Choose two.)

- A. per link
- B. per failure type
- C. per neighbor
- D. per prefix
- E. per network type

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 93

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 94

A network is designed to use OSPF to reach eBGP peers. Which condition should be avoided in the design to potentially prevent the eBGP peers to flap continuously in case of link failure?

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

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

NEW QUESTION: 95

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

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

- A. Place spoke routers in totally stubby areas
- B. Place spoke routers in stub areas
- C. Keep the spoke routers in normal areas
- D. Configure the hub routers as ABRs
- E. Configure the hub routers as ASBRs

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 96

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](#))

Explanation/Reference:

Explanation:

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