

352-001 Dumps

CCDE Written Exam

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NEW QUESTION 1

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

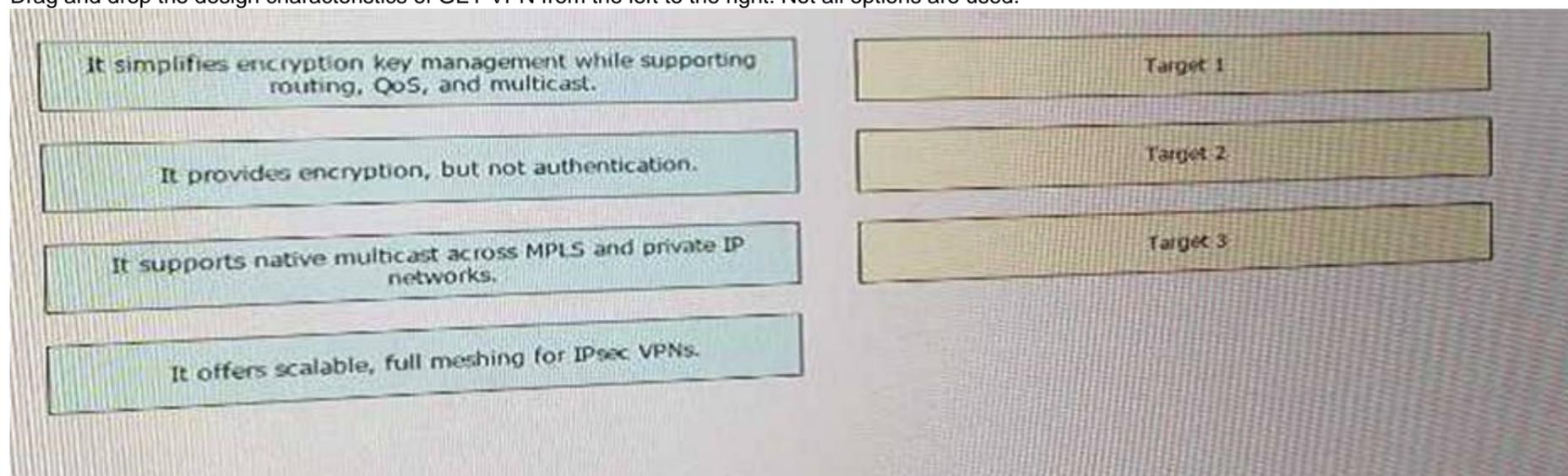
- A. VXLAN
- B. MPLS L2VPN
- C. Provider Backbone Bridging EVPN
- D. 802.1Q

Answer: A

NEW QUESTION 2

DRAG DROP

Drag and drop the design characteristics of GET VPN from the left to the right. Not all options are used.



Answer:

Explanation: A, C, D

NEW QUESTION 3

Which IEEE standard is commonly used at the data link layer for an access network, in an IoT environment?

- A. Wireless Regional Area Network
- B. Low-Rate Wireless Network
- C. Wireless Local Area Network
- D. Broadband wireless metropolitan Network

Answer: B

NEW QUESTION 4

Which option lists the cloud service models?

- A. Internet as a Service, Platform as a Service, and Storage as a Service.
- B. Infrastructure as a Service, Platform as a Service, and Storage as a Service.
- C. Infrastructure as a Service, Platform as a Service, and Software as a Service.
- D. Internet as a Service, Product as a Service, and Storage as a Service.
- E. Internet as a Service, Platform as a Service, and Software as a Service.

Answer: C

NEW QUESTION 5

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

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

Answer: A

NEW QUESTION 6

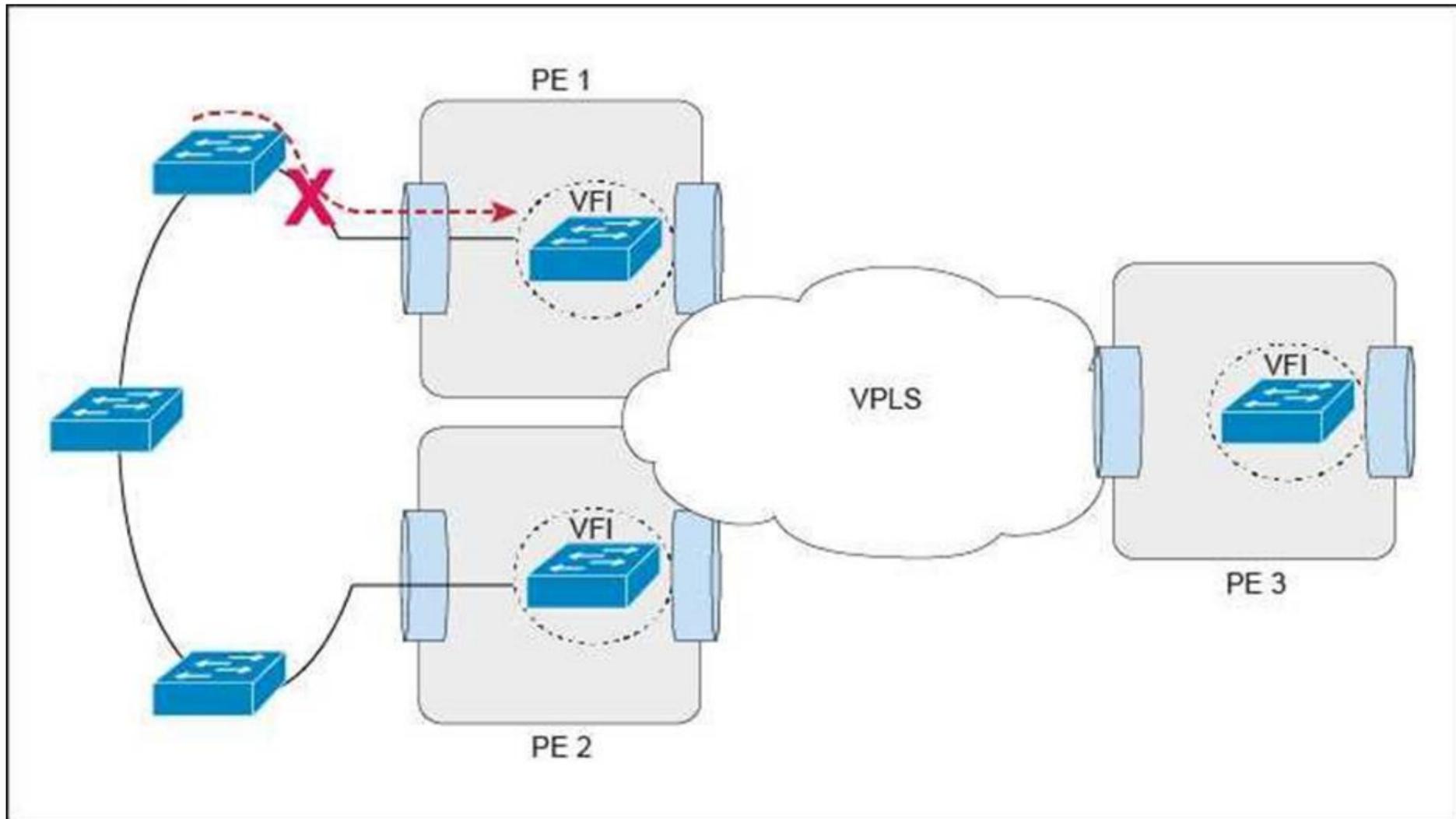
A regional ISP is running MPLS TE. These tunnels are configured manually using paths. Which technology centralizes the traffic engineering decisions to reduce operational complexity?

- A. BGP Link State
- B. DiffServ-TE
- C. TE autobandwidth
- D. Shared Risk link Group

Answer: C

NEW QUESTION 7

Refer to the exhibit.



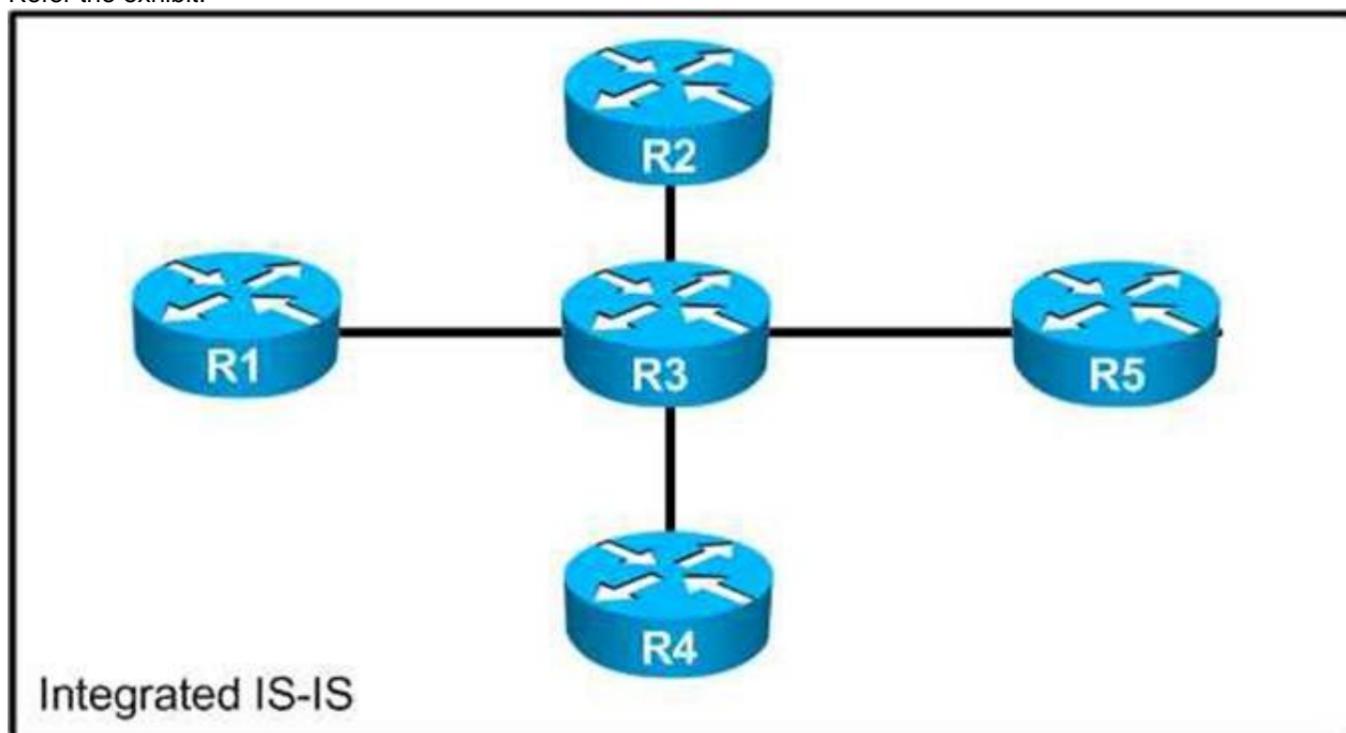
This Layer 2 ring has 10 VLANs with 1000 MAC addresses in each VLAN. Which protocol or mechanism provides the shortest traffic outage if the link marked with "X" fails?

- A. Ethernet linear protection switching
- B. PVRST
- C. MST
- D. Ethernet ring protection switching

Answer: D

NEW QUESTION 8

Refer the exhibit.



You have designed a IPv6 migration plan, and now you need to determine the impact on the existing IPv4 network. Which is likely to happen when you enable IPv6 routing on the link between R3 and R2, starting at R3?

- A. R3 advertises the link from R3-R2 to R1, R4 and R5 only.

- B. R2 receives an IPv6 default route from R3.
- C. Only R3 and R2 have IPv4 and IPv6 reachability.
- D. Loopback reachability between all routers for IPv4 is lost.
- E. All routers except R2 are reachable through IPv4.

Answer: D

NEW QUESTION 9

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?

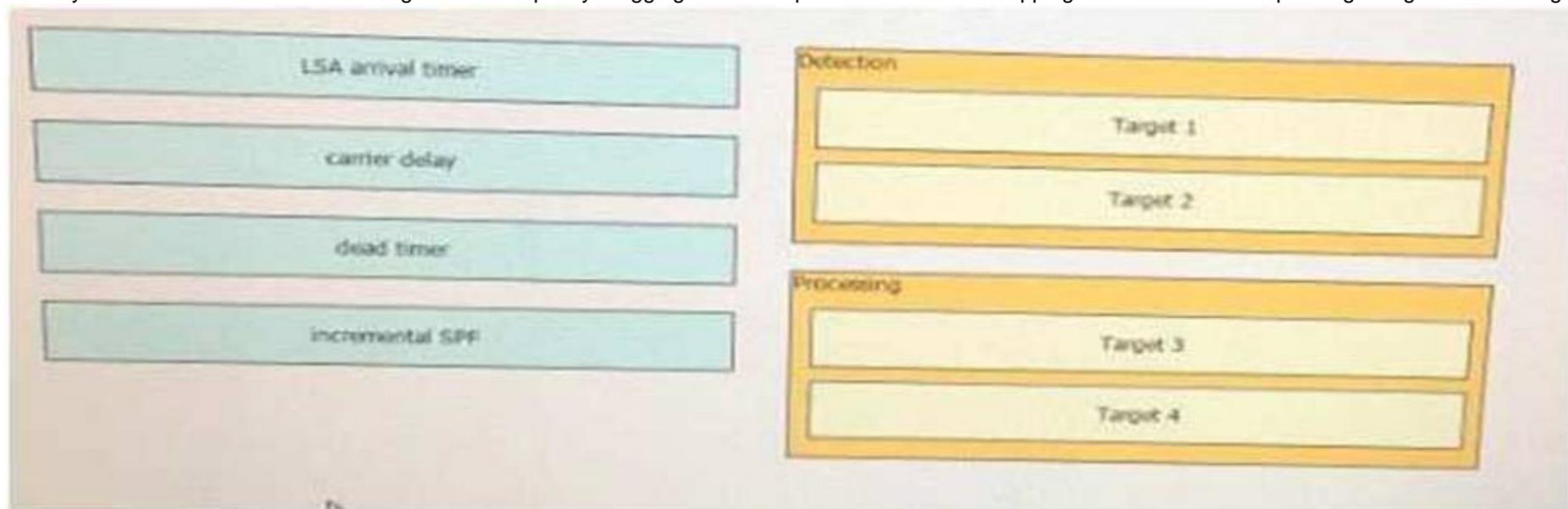
- A. to allow for better convergence time
- B. to prevent the occurrence of Layer 2 loops
- C. to allow for fault isolation
- D. to prevent routing black holes

Answer: D

NEW QUESTION 10

DRAG DROP

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



Answer:

Explanation: Detection: carrier delay, dead timer
Processing: LSA arrival timer, incremental SPF

NEW QUESTION 10

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. SPF throttling
- C. IP event dampening
- D. Link-state incremental SPF
- E. Link-state partial SPF

Answer: AC

NEW QUESTION 13

Which mechanism provides fast path failure detection?

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

Answer: E

NEW QUESTION 16

Which option is a benefit of using N-Port Virtualization?

- A. reduces the amount of domain IDs that are used in the fabric

- B. does not need to create zoning
- C. reduces latency when using local switching on Fibre Channel ports
- D. allows trunking to the upstream switch
- E. does not need to configure the upstream switches

Answer: A

NEW QUESTION 19

You are designing an optical network. Your goal is to ensure that your design contains the highest degree of resiliency. In which two ways should 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 provides fault tolerance for single failures only
- C. a wavelength-switched optical network takes linear and nonlinear optical impairment calculation into account
- D. a wavelength-switched optical network assigns routing and wavelength information
- E. a wavelength-switched optical network eliminates the need for dispersion compensating units in a network

Answer: CD

NEW QUESTION 21

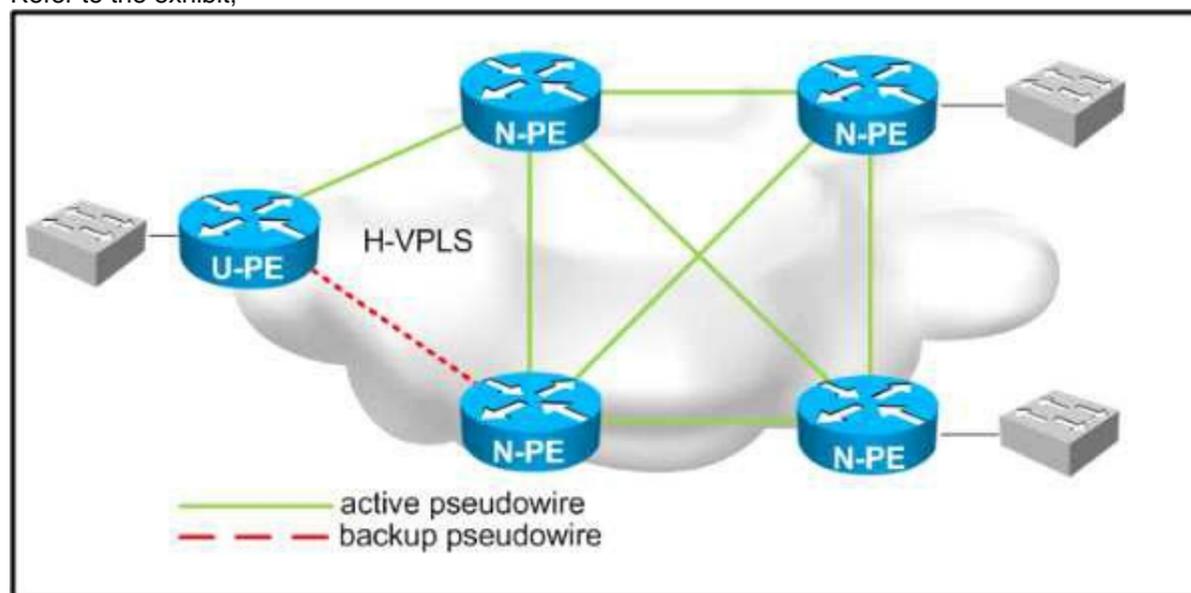
A financial trading organization plans to monitor the network latency for multicast data feeds on a hop-by-hop basis. Which technology should be added to their design to support this requirement?

- A. SPAN
- B. NBAR
- C. IPFIX
- D. Precision Time Protocol

Answer: D

NEW QUESTION 26

Refer to the exhibit,



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

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

Answer: AC

NEW QUESTION 31

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

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

Answer: D

NEW QUESTION 32

How can a network designer reduce the amount of LSA flooding occurring in a large, single area fully-meshed OSPF topology?

- A. Implemented passive OSPF interfaces on the routers not participating on the DR/BDR election.
- B. Use access control lists to control outbound advertisements.
- C. Ensure DR and BDR routers are placed optimally in the topology.
- D. Place all point-to-point links in their own dedicated areas.

Answer: C

NEW QUESTION 34

Your customer asks you to assist with their traffic policy design. They want to guarantee a minimum amount of bandwidth to certain traffic classes. Which technique would you advise them to implement?

- A. Modular QoS CLI
- B. committed access Rate
- C. policy-based routing
- D. traffic shaping

Answer: A

NEW QUESTION 36

Which two design aspects should a metro service provider consider when planning to deploy REP for his backbone? (Choose two.)

- A. Two REP segments can be connected redundantly at two points, one connection will be blocked as per the STP defined in IEEE 802.1d.
- B. UDLD can be enabled on REP interfaces to detect unidirectional failures.
- C. The guaranteed convergence recovery time is less than 50 ms for the local segment.
- D. A REP segment is limited to a maximum of seven devices.
- E. VLAN load balancing for optimal bandwidth usage is supported in any REP segment.

Answer: BE

NEW QUESTION 37

Which mechanism should be added to a network design to identify unidirectional Spanning Tree Protocol failures through BPDU loss?

- A. Root guard
- B. BPDU guard
- C. Loop guard
- D. UDLD

Answer: C

NEW QUESTION 42

A company would like to distribute a virtual machine (VM) hosting cluster between three data centers with the capability to move VMs between sites. The connectivity between data centers is IP only and the new design should use the existing WAN. Which Layer 2 tunneling technology do you recommend?

- A. AToM
- B. L2TPv3
- C. OTV
- D. VPLS

Answer: C

NEW QUESTION 46

You are designing the QoS features for a large enterprise network that includes DMVPN. In which situation should you use the QoS pre-classify feature?

- A. When you are marking packets with the ToS bits
- B. When the QoS policy cannot be based on DSCP bits
- C. When you are marking packets with the DSCP bits
- D. When your service provider requires the DSCP bits be set

Answer: B

NEW QUESTION 50

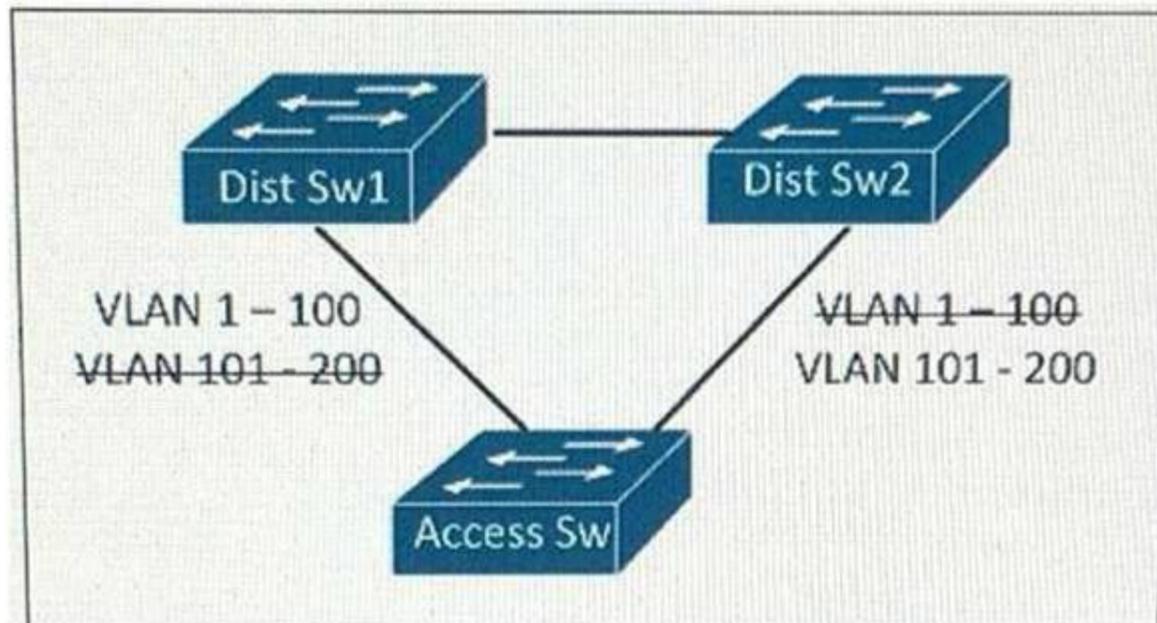
A Company has these requirements for access to their wireless and wired corporate LANs using 802.1x Clients devices that corporate assets and have joined the active directory domain are allowed access Personal devices must be not allowed access Clients and access servers must be mutually authenticated.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

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

Answer: B

NEW QUESTION 53

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

Answer: C

NEW QUESTION 58

In an OSPF network, users in a particular OSPF non-backbone area are complaining about slow access speeds to a shared corporate resource in another OSPF area. Traceroutes show that the users are taking a suboptimal default route to the destinations. Which solution will improve access speed?

- A. Make the area totally stubby so that the default can be followed along the best path
- B. Create a virtual link between the areas so that traffic can shortcut directly between them
- C. Leak specific summaries on the ABRs for the remote subnets in addition to the default
- D. Implement policy routing to channel the traffic in the optimal direction

Answer: C

NEW QUESTION 63

You are solving a design failure on a massive Hadoop cluster network that has an application with TCP incast behavior (also known as TCP Throughput collapse) affecting its many-to-one communications with packet loss at the last-hop network device. Which metric must be measured to ensure that the network provides the best performance for this application?

- A. Availability
- B. Bandwidth utilization
- C. Jitter values
- D. Buffer utilization

Answer: D

NEW QUESTION 64

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

Answer: A

NEW QUESTION 69

ACME Agricultural requires that access to all network devices is granted based on identify validation, and an authentication server was installed for this purpose. Currently the network team uses a list of passwords based on regions to access the internal corporate network devices. Which protocol do you recommend to ensure identify validation from the authentication server to the corporate directory?

- A. HTTPS
- B. TACACS+
- C. SSH
- D. LDAP

Answer: D

NEW QUESTION 74

A large enterprise network has two data centers and a WLAN edge with a large hub-and-spoke network. The complete network is configured as a single OSPF area, and spoke routers are connected to unreliable WAN links. Which two changes should you make to deploy LSA on the spoke routers? (Choose two)

- A. Place spoke routers in stub areas
- B. Make the hub routers ABR
- C. Make the hub routers ASBR
- D. Place spoke routers in totally stubby areas
- E. Keep the spoke routers in normal areas

Answer: BD

NEW QUESTION 75

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

Answer: B

NEW QUESTION 79

When designing a network .Which method can be used to control the exit point for traffic an autonomous system, at the layer 3 control plane?

- A. Prepending AS path.
- B. Tuning the multi-exit discriminator.
- C. Setting the site of Origin extended community.
- D. Tuning the metric of the under-tying IGP.

Answer: D

NEW QUESTION 82

Why is a redundant PIM stub router topology a bad network design decision?

- A. Multicast convergence takes long
- B. Multicast traffic duplication will occur
- C. It interferes with IGMP snooping
- D. It interfaces with PIM snooping

Answer: B

NEW QUESTION 86

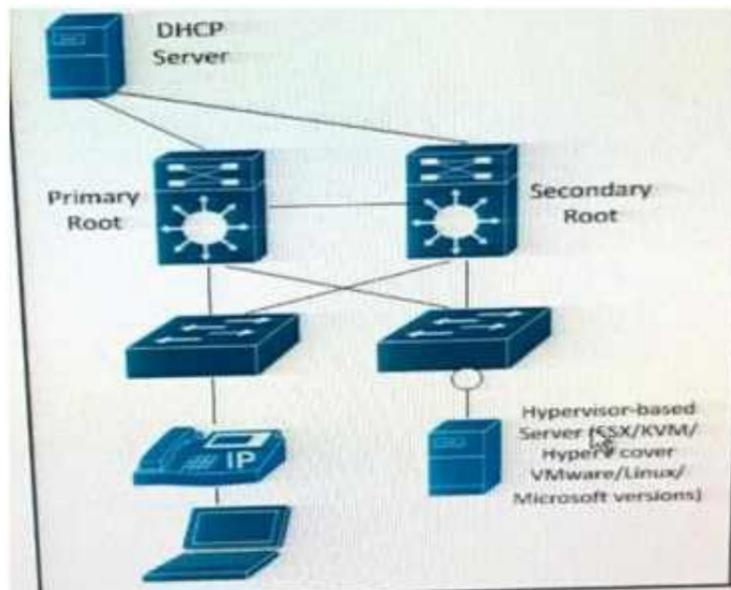
Which two general SDN characteristics? (Choose two)

- A. Southbound interfaces are interfaces used between the control plane and the date plane
- B. OpenFlow is considered one of the first Northbound APIs used by SDN controllers
- C. Northbound interfaces are open interfaces used between the control plane and the data plane
- D. The separation of the control plane from the data plane
- E. OVSDB is an application database management protocol

Answer: AD

NEW QUESTION 91

Refer to the Exhibit.



The server is running multiple VLANs on its NIC. Which two Layer 2 features should be applied to the

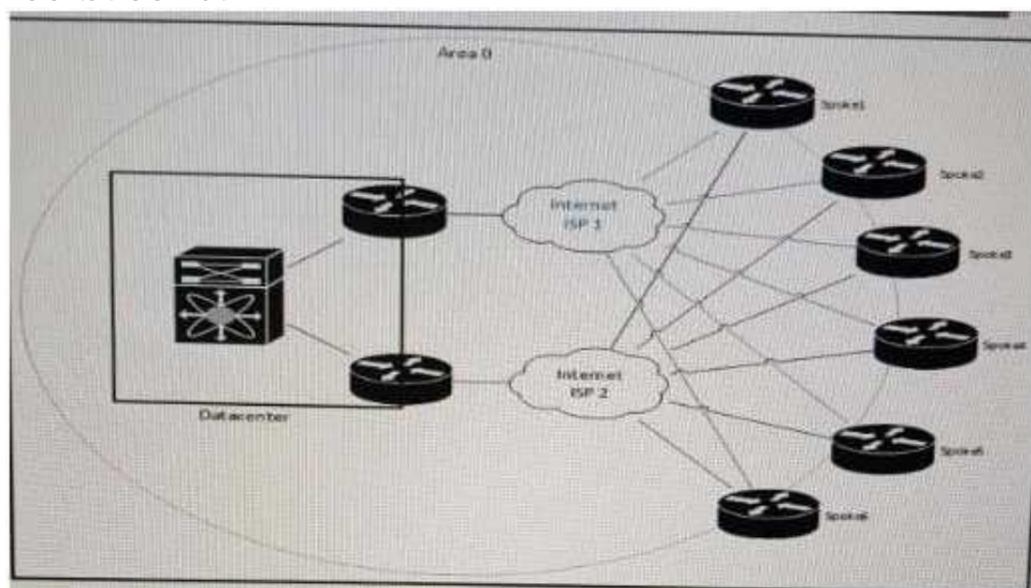
network location identified by a circle? (Choose two)

- A. UDLD
- B. BPDU guard
- C. BPDU filtering
- D. Port Fast
- E. Loop guard
- F. PortFast trunk

Answer: BF

NEW QUESTION 94

Refer to the exhibit.



You must review this single OSPF area, DMVPN network because the company has noticed a few area 0 convergence and stability issues. Also, traffic destined to the data center from one of the spokes as the next hop on the path. The company prefers that all traffic destined to the data center uses the least amount of hops. Which solution resolves these issues with the minimum amount of changes on the network?

- A. Migrate from OSPF to static routes between the hub routers and the spoke routers and deploy IP SLA for route health checks
- B. Migrate from OSPF to EIGRP between the hub routers and the spoke routers
- C. Modify OSPF cost metrics on all backup links
- D. Create areas between each hub and their spoke routers, to ensure that the hub routers become DRs

Answer: C

NEW QUESTION 98

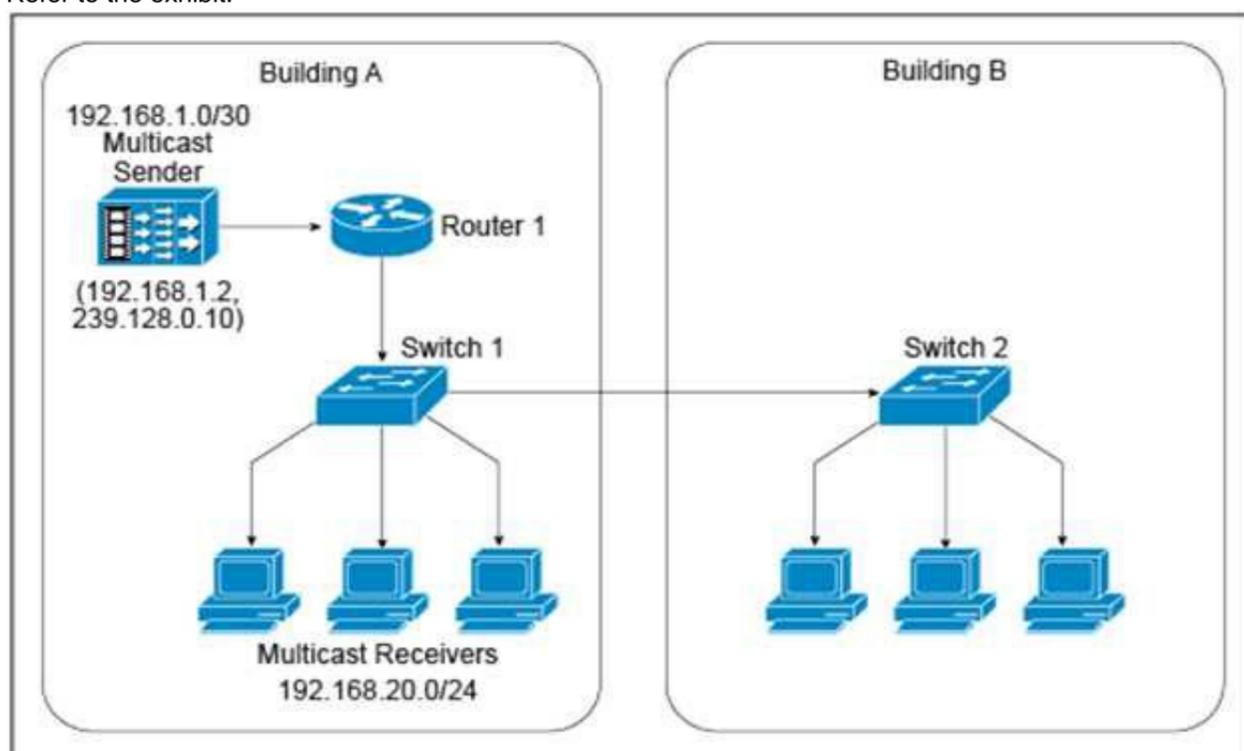
You are designing an IPv4 any source multicast redundancy solution. Which technology ensures the quickest RP convergence?

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

Answer: B

NEW QUESTION 101

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

NEW QUESTION 106

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

- A. Ensure that all network devices have their clocks synchronized.
- B. Collect SNMP poll information for future regression analysis.
- C. Capture both ingress and egress flow-based packets, while avoiding duplication of flows.
- D. Look at average counters instead of instantaneous counters for inconsistent and bursty KPIs, such as CPU utilization and interface utilization.
- E. Validate data plane health, and application and services availability, with synthetic traffic.

Answer: ABD

NEW QUESTION 109

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

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

Answer: AD

NEW QUESTION 114

Which option describes a design benefit of root guard?

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

Answer: E

NEW QUESTION 117

You are designing a solution to connect a primary data center to a disaster recovery site, The hosted applications will be web and email servers that are provided through a virtualized environment. Which connectivity technology should you consider for this design?

- A. L2TPV3.
- B. VPWS.
- C. Point-To-Point GRE tunnels.
- D. VPLS.

Answer: A

NEW QUESTION 121

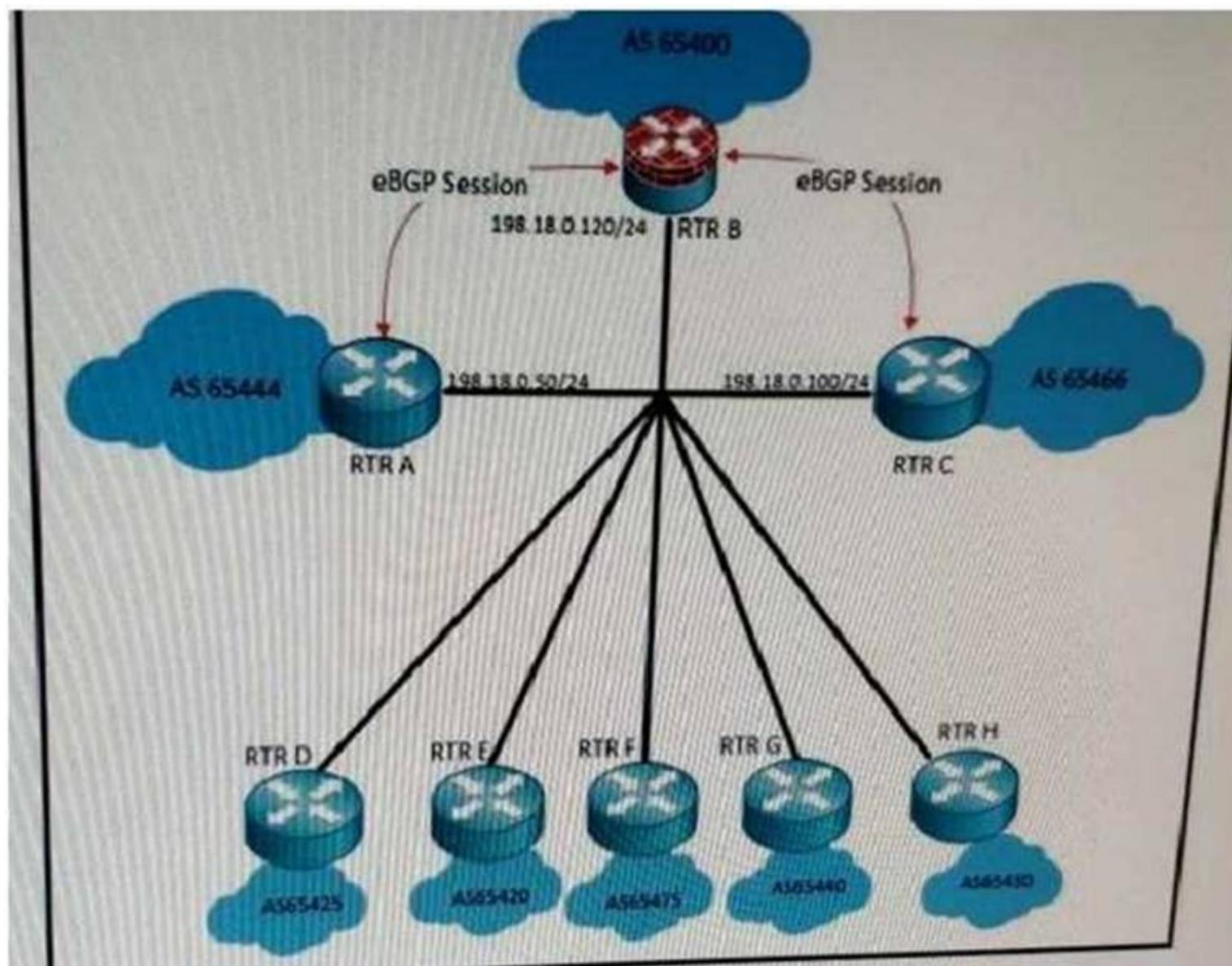
A service provider is designing a new backbone based on an IGP and MPLS what are two valid reasons for implementing MPLS-TE as well? (Choose two)

- A. MPLS-TE is required to reroute traffic within less than 1 second in case of a link failure inside the backbone
- B. MPLS-TE can detect and react to neighbor failures faster than IGPs can
- C. MPLS-TE is required to route different MPLS QoS Service classes through different paths
- D. MPLS-TE is required to create backup paths independently from the IGP
- E. MPLS-TE is a prerequisite for implementing RSVP in the backbone

Answer: CD

NEW QUESTION 122

Refer to the exhibit.



Transit traffic in this large enterprise campus network passes the eBGP core. Per security policy, traffic coming from AS 65444 destined for AS 65466 and vice-versa must pass through AS 65400. An audit discovers that traffic between 65444 and 65466 did not pass through 65400, instead it is communicating directly. How must you design BGP to ensure that the traffic from AS 65444 destined for AS 65466 passes through AS65400 on this broadcast network?

- A. Apply an ACL on AS 65466 to drop the direct traffic between AS 65444 and AS 65466
- B. Apply AS-path prepending on AS 65466 and AS 65444
- C. Apply next-hop self on both BGP neighbors on AS 65400
- D. Apply the MED attribute on the BGP session for AS 65444

Answer: C

NEW QUESTION 124

Which OSPF design consideration, with regards to simplicity and address preservation, must be considered when connecting two Layer 3 switches directly using 10 GBASE-T cabling and formatting an OSPF neighbor adjacency?

- A. Mesh groups must be included in the design
- B. The OSPF Hello and Dead timers must be tuned to detect failures as quickly as possible
- C. The OSPF network type must be set to point-to-multipoint
- D. An OSPF neighbor adjacency formed over loopback interfaces must be placed in Area 0
- E. The OSPF network type must be set to point-to-point

Answer: E

NEW QUESTION 125

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

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

Answer: D

NEW QUESTION 128

You must make IGP redesign recommendations for a client that has old equipment, with low CPU power and memory, that they do not have budget replace. They are very concerned about CPU load on routers. They are using IS-IS as the IGP in a single I1 area and all routers are connected to each other with point-to-point links. Which method do you recommend to reduce or limit CPU overhead caused by IS-IS?

- A. Use mesh groups to limit flooding of LSAs
- B. Implement wide style metrics for IS-IS on all routers
- C. Select a router to act as a pseudowire to limit topology synchronization
- D. Divide the router into multiple areas and implement address summarization

Answer: A

NEW QUESTION 132

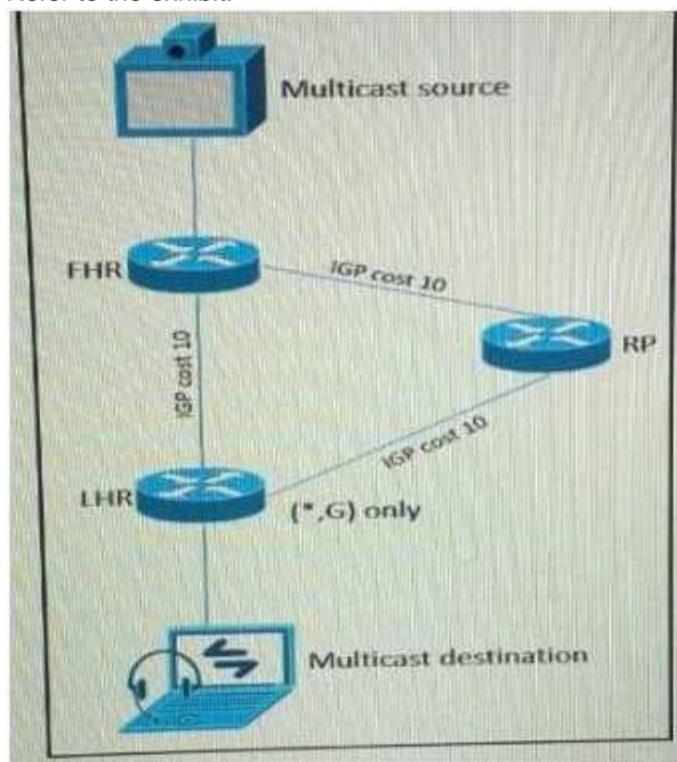
Across a large WAN network, there will be new video traffic being distributed from a single source at any given time however, the video source might originate from different parts of the multicast domain at different times . Which multicast technology provides for this multicast traffic to be distributed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

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

Answer: D

NEW QUESTION 135

Refer to the exhibit.



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

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

Answer: B

NEW QUESTION 137

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

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

Answer: CE

NEW QUESTION 140

As a part of a network design, you should tighten security to prevent man-in-the-middle. Which two security options ensure that authorized ARP responses take place according to know IP-to-MAC address mapping? (Choose two)

- A. DHCP snooping
- B. ARP spoofing
- C. ARP rate limiting
- D. Dynamic ARP Inspection
- E. Port security

Answer: AD

NEW QUESTION 145

.which two options are benefits of using Topology Independent Loop-Free Alternate in WAN design? (Choose two)

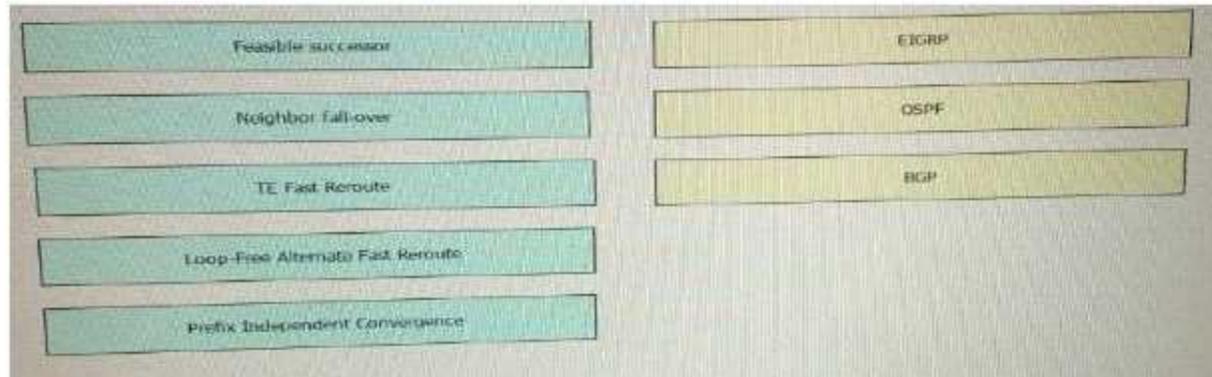
- A. It provides backup convergence for all topologies by avoiding the post-convergence path
- B. It maximizes the network utilization by load-sharing across low bandwidth and edge links while IGP convergence is in progress
- C. No additional protocols are required in the MPLS network because it uses LDP labels to signal the backup path
- D. Although it requires enabling segment routing, SR does not have to be activated as the preferred forwarding method
- E. It can provide backup paths for IPv4, IPv6 and LDP traffic

Answer: AE

NEW QUESTION 150

DRAG DROP

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



Answer:

Explanation: A, D, E

NEW QUESTION 154

In an OSPF network with 20 routers connected together with Ethernet cabling , which topology typically takes the longest to converge?

- A. Full mesh
- B. Ring
- C. Squared
- D. Triangulated
- E. Partial mesh

Answer: B

NEW QUESTION 156

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

- A. Collect RMON poll information for future regression analysis
- B. Ensure that all network devices have their clocks synchronized
- C. Look at average counters instead of instantaneous counters for inconsistent and bursty KPIs, such as CPU utilization and interface utilization.
- D. Collect SNMP poll information for future regression analysis
- E. Validate data plane health, application and services availability with synthetic traffic
- F. Capture both ingress and egress flow-based packet
- G. While avoiding duplications of flows

Answer: BCD

NEW QUESTION 160

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 3VPN solution and manages the CE routers, but they do not currently multicast. Which solution quickly allows this multicast traffic to go through while allowing for future scalability?

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

Answer: B

NEW QUESTION 162

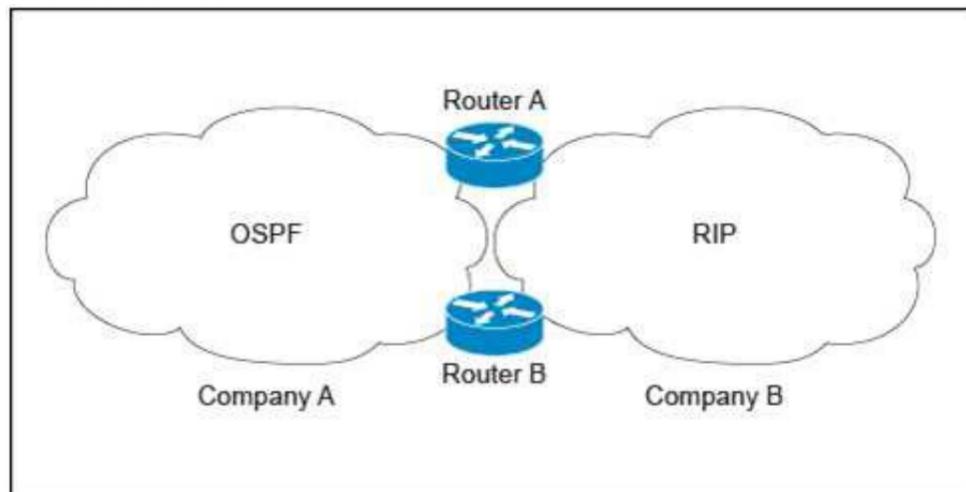
As network designer, which option is your main concern with regards to virtualizing multiple network zones into a single hardware device?

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

Answer: A

NEW QUESTION 164

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. Increase the administrative distance to 130 for the OSPF external prefixes on Router A and Router B.
- D. Implement an ACL on Router A and Router B to prevent OSPF external routes from being installed in the OSPF database.
- E. Filter external routes on Router A and Router B based on route tags.

Answer: BCE

NEW QUESTION 166

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

- A. It prevents the core from having unnecessary routes.
- B. It no longer needs a core layer.
- C. It prevents black hole routing.
- D. It avoids network-wide impact upon VLAN changes local to the aggregation devices.
- E. it allows for optimal routing

Answer: AD

NEW QUESTION 170

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?

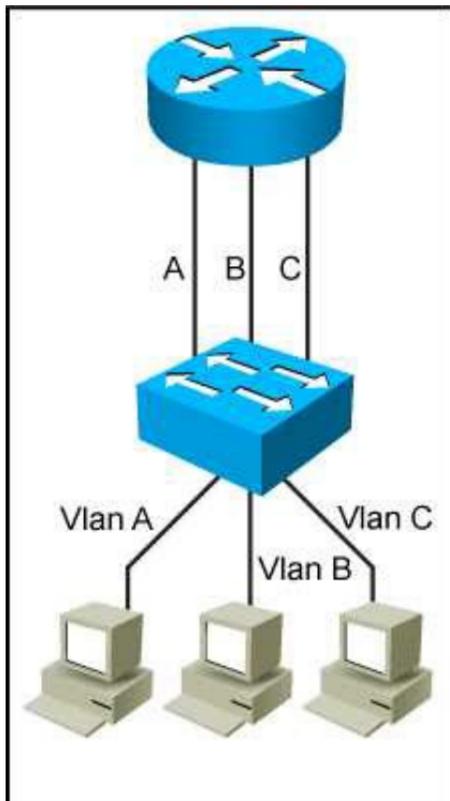
- A. NAT64
- B. CGN
- C. Dual-stack CPE
- D. 6RD

Answer: D

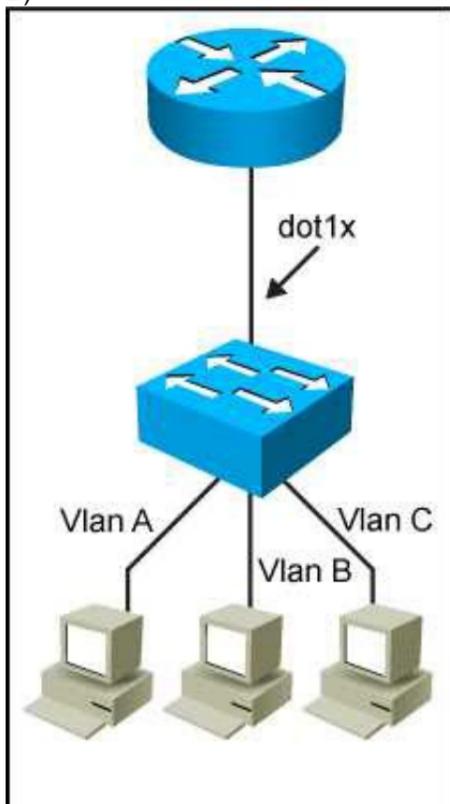
NEW QUESTION 173

Which network topology is characterized by a link fate-sharing situation?

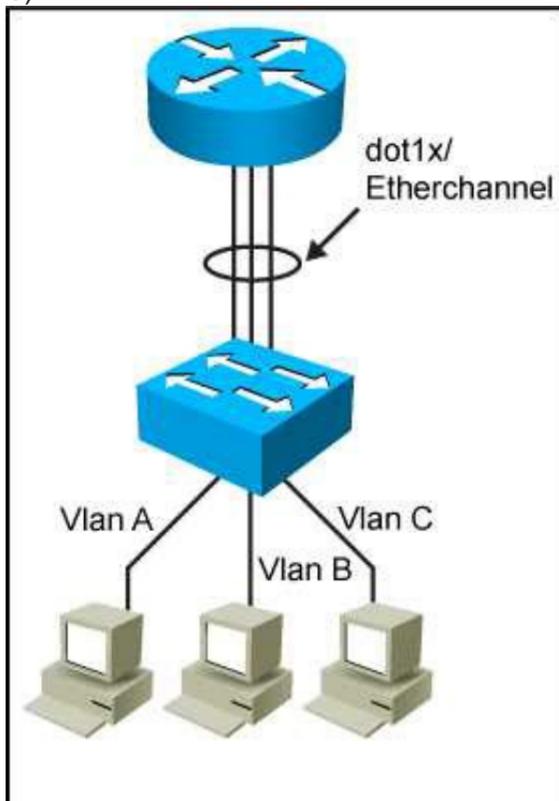
- A)



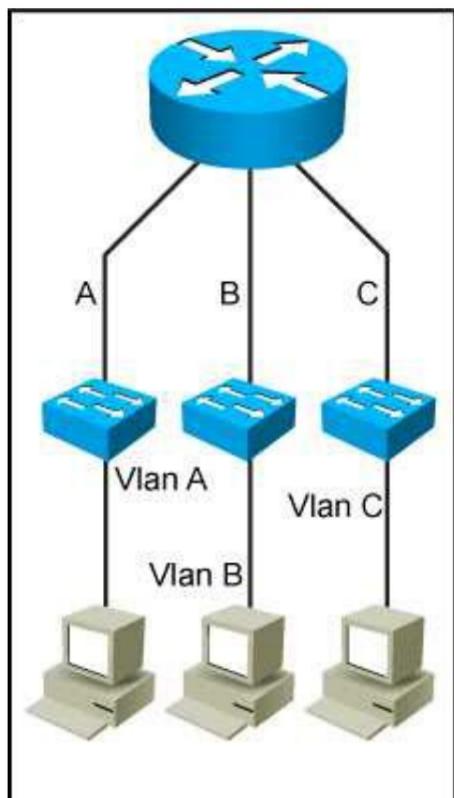
B)



C)



D)

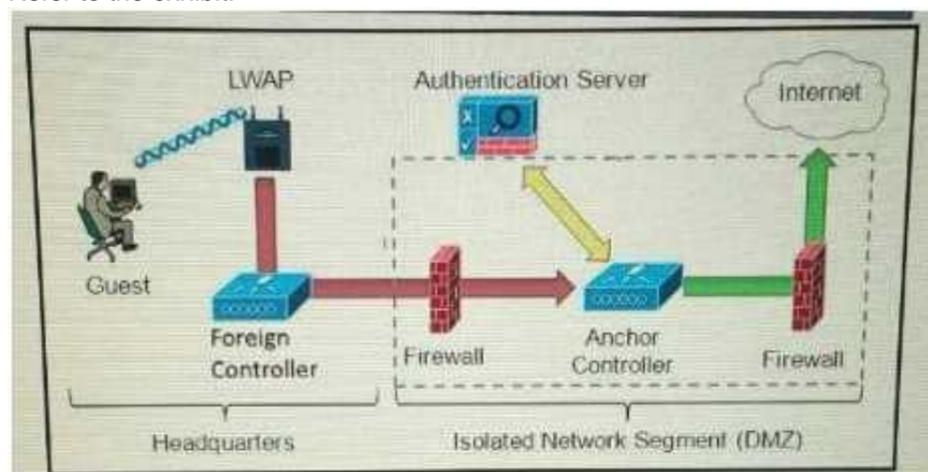


- A. Exhibit A
- B. Exhibit B
- C. Exhibit C
- D. Exhibit D

Answer: B

NEW QUESTION 176

Refer to the exhibit.



Which solution must be used to send traffic from the foreign wireless LAN controller to the anchor wireless LAN controller?

- A. Encapsulate packets into an EoIP tunnel and send them to the anchor controller
- B. Send packets from the foreign controller to the anchor controller via Layer 3 MPLS VPN or VRF-Lite
- C. Send packets from the foreign controller to the anchor controller via IPinIP or IPsec tunnel
- D. Send packets without encapsulation to the anchor controller over the routed network

Answer: A

NEW QUESTION 181

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

- A. To enable unused services
- B. Warning banners
- C. Routing protocol authentication
- D. Control Plane Policing
- E. Redundant AAA servers
- F. SNMPv3

Answer: CDF

NEW QUESTION 182

Your client is considering acquiring a new IPv6 address block so that all Ethernet interfaces on the network receive addresses based on their burned-in hardware addresses, with support for 600 VLANs. Which action do you recommend?

- A. Acquire a new /60 IPv6 network and subnet it into /70 networks, one per VLAN
- B. Acquire a new /58 IPv6 network and subnet it into /64 networks, one per VLAN
- C. Acquire a new /60 IPv6 network and subnet it into /68 networks, one per VLAN

D. Acquire a new/54 IPv6 network and subnet it into /64 networks , one per VLAN

Answer: D

NEW QUESTION 187

An enterprise network has two core routers that connect to 200 distribution routers and uses full-mesh iBGP peering between these routers as its routing method. The distribution routers are experiencing high CPU utilization due to the BGP process. Which design solution is the most effective?

- A. Increase the memory on the distribution routers
- B. Increase the memory on the core routers
- C. Implement route reflectors on the two core routers
- D. Increase bandwidth between the core routers
- E. Implement eBGP between the core and distribution routers

Answer: C

NEW QUESTION 191

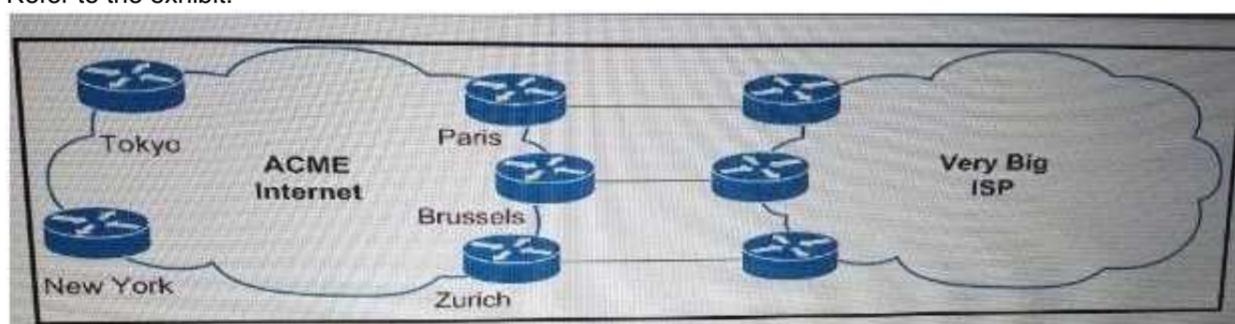
A healthcare customer requested that health statistics from their infrastructure devices are to be sent over their service provider MPLS network. Which protocol must be enabled?

- A. SNMPv3
- B. Syslog TLS
- C. syslog
- D. SNMPv2
- E. SSH

Answer: A

NEW QUESTION 193

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

Answer: A

NEW QUESTION 198

Which main IoT migration aspect should be reviewed for a manufacturing plant?

- A. Sensors
- B. Security
- C. Applications
- D. Wi-Fi Infrastructure
- E. Ethernet Switches

Answer: A

NEW QUESTION 200

What is design considerations of policy-based routing?

- A. It decreases failure detection time
- B. It can create microloops during network reconvergence
- C. It routes traffic destined to a set of users through different exit points
- D. It uses RSVP to differentiate traffic flows, so queuing mechanisms can prioritize them

Answer: B

NEW QUESTION 202

Which two items are required for data plane hardening of an infrastructure device? (Choose two)

- A. Disable unused services

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

Answer: AE

NEW QUESTION 205

Which two control plane policer design options should you consider to achieve high availability?
(Choose two)

- A. Control plane policers require that adequate protocols overhead are factored in to allow protocol convergence
- B. Control plane policers are really needed only on externally facing devices
- C. Control plane policers can cause the network management systems to create false alarms
- D. Control plane policers are enforced in hardware to protect the software path, but they are hardware platform-dependent in terms of classification ability
- E. Control plane policers must be processes before a forwarding decision is made

Answer: DE

NEW QUESTION 209

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

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

Answer: D

NEW QUESTION 210

Which DCI technology utilizes a “flood and learn” technique to populate the Layer 2 forwarding table?

- A. OTV
- B. E-VPN
- C. VPLS
- D. LISP

Answer: A

NEW QUESTION 212

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

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

Answer: C

NEW QUESTION 216

Which aspect is a significant disadvantage of containers?

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

Answer: A

NEW QUESTION 217

A new video multicast application is deployed in the network. The application team wants to use the 239.0.0.1 multicast group to stream the video to users. They want to know if this choice will impact the existing multicast design. What impact will their choice have on the existing multicast design?

- A. Because 239.0.0.1 is a private multicast range, a flood of PIM packets that have to be processed by the CPU and hosts will be sent by the routers in the network.
- B. Because 239.0.0.1 is a private multicast range, the rendezvous point has to send out constant group updates that will have to be processed by the CPU and hosts.
- C. The multicast application sends too many packets into the network and the network infrastructure drops packets.
- D. The 239.0.0.1 group address maps to a system MAC address, and all multicast traffic will have to be sent to the CPU and flooded out all ports.

Answer: B

NEW QUESTION 218

Which two conditions must be met for EIGRP to maintain an alternate loop-free path to a remote network? (Choose two)

- A. The Reported Distance from a successor is lower than the local Feasible Distance
- B. The Reported Distance from a successor is higher than the local Feasible Distance
- C. A feasible successor must be present
- D. The feasible Distance from a successor is lower than the local Reported Distance
- E. The feasibility condition do not need to be met

Answer: AC

NEW QUESTION 221

What is a design benefit of PortFast?

- A. PortFast allows small, unmanaged switches to be plugged into ports of access switches without risking switch loops
- B. PortFast disables spanning-tree on the port, which puts the port into the forwarding state immediately after it is connected
- C. Portfast does not generate a spanning-tree topology change when a station on a port is connected or disconnected
- D. PortFast detects one-way communications on the physical port, when prevents switch loops
- E. PortFast prevents switched traffic from traversing suboptimal paths on the network
- F. PortFast prevents switch loops that are caused by a unidirectional point-to-point link condition on Rapid PVST+ and MST

Answer: B

NEW QUESTION 224

Which are two open-source SDN controllers? (Choose two)

- A. Big Cloud Fabric
- B. OpenContrail
- C. Application Policy Infrastructure Controller
- D. Virtual Application Networks SDN controller
- E. OpenDaylight

Answer: BE

NEW QUESTION 228

For a redesign requirement of the service provider network, summarization was implemented at multiple locations for each summary range. Now some customers of the service provider are complaining of higher latency and performance issues for a server hosted in the summarized are

- A. Which design issues must be considered when creating the summarization?
- B. Summarization adds CPU overhead on the routers sourcing the summarized advertisement.
- C. Summarization prevents the visibility of the metric to the component subnets.
- D. Summarization causes packet loss when RPF is enabled.
- E. Summarization creates routing loops.

Answer: B

NEW QUESTION 231

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

Answer: C

NEW QUESTION 235

In a VPLS design solution, which situation indicates that BGP must be used instead of LDP in the control plane?

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

Answer: A

NEW QUESTION 239

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

- A. Edge-core-edge design
- B. Fibre Channel forwarder

- C. Split fabric design
- D. Core-edge design
- E. Dual fabric design

Answer: AD

NEW QUESTION 240

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

- A. Sham link
- B. Down bit
- C. P-Bit
- D. Domain ID
- E. Routing bit

Answer: B

NEW QUESTION 244

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

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

Answer: AB

NEW QUESTION 247

A network engineering team is in the process of designing a lab network for a customer demonstration. The design engineer wants to show that the resiliency of the MPLS traffic Engineering Fast Reroute solution has the same failover/failback times as a traditional SONET/SDH network (around 50MSEC). In order to address both link failure and node failure within the lab typology network, which type of the MPLS TE tunnels must be considered for this demonstration?

- A. TE backup tunnel
- B. Next-hop (NHop) tunnel
- C. FRR Backup tunnel
- D. next-next-hop (NNHop) tunnel

Answer: D

NEW QUESTION 251

Which statement about SDN framework environment is true?

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

Answer: D

NEW QUESTION 252

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

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

Answer: D

NEW QUESTION 253

Which two conditions are required for successful route aggregation? (Choose two)

- A. Contiguous prefix allocation
- B. Logical separation between zones or layers within networks
- C. Matching traffic aggregation with route aggregation locations
- D. Consistent prefix allocations per network
- E. Physical separation between zones or layers within networks

Answer: BD

NEW QUESTION 257

DRAG DROP

When developing a multicast network design, SSM should be used for which type of source and receiver distribution?

limited sources	Source Distribution Target
many sources	
limited receivers	
many receivers	
Receiver Distribution Target	

Answer:

Explanation:

Source Distribution	limited receivers
Receiver Distribution	many receivers

NEW QUESTION 259

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:

Explanation:

Buffering
Policing
Shaping
Marking
WRED
ECN

NEW QUESTION 262

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:

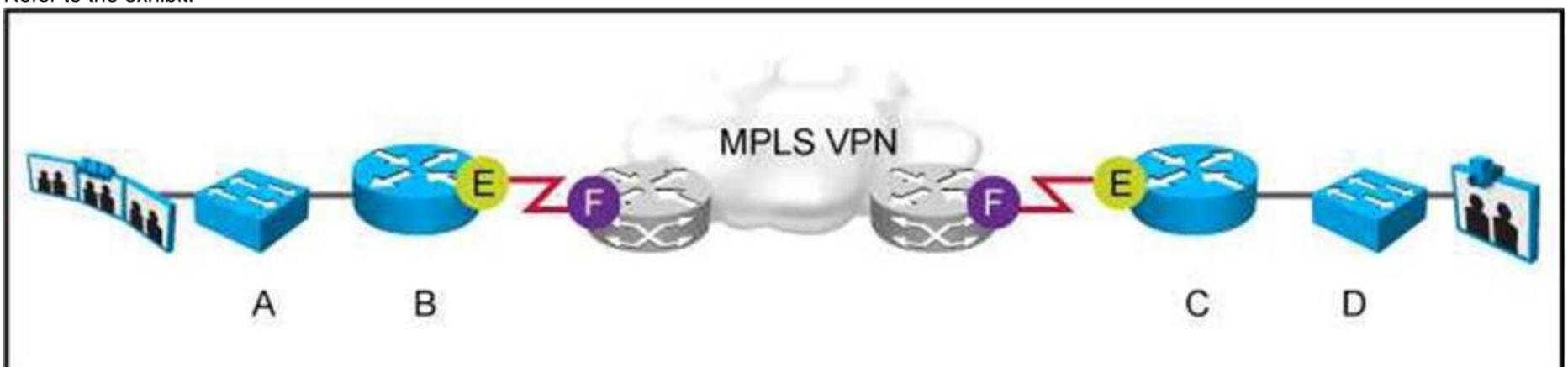
Explanation:

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

NEW QUESTION 264

DRAG DROP

Refer to the exhibit.



Company ACME is adding a Cisco TelePresence system for real-time collaboration and wants to ensure the highest user experience. Drag and drop the necessary QoS mechanisms from the left to the right in any order. Not all options will be used.

- Enable policer on switches A and D
- Enable LLQ or CBWFQ for real-time interactive (CS4)
- Rewrite DSCP to 0 to ensure equal treatment for all traffic
- Enable HQoS shaper on router interface E if necessary
- Enable HQoS shaper on router interface F
- Enable CBWFQ for signaling traffic (CS3)
- Remark traffic at router interface F
- Trust DSCP at switches A and D
- Remark DSCP at router interface E

- QoS mechanism 1
- QoS mechanism 2
- QoS mechanism 3
- QoS mechanism 4
- QoS mechanism 5

Answer:

Explanation:

- Enable LLQ or CBWFQ for real-time interactive (CS4)
- Enable HQoS shaper on router interface E if necessary
- Enable CBWFQ for signaling traffic (CS3)
- Trust DSCP at switches A and D
- Remark DSCP at router interface E

NEW QUESTION 267

DRAG DROP

A small local business recently had an outage after an employee plugged a switch into the corporate network, which caused the traffic pattern in the network to change. You have been tasked to redesign the network so that this does not happen again. From the left side to the right side, drag the PVRST+ features that should be implemented to prevent the corresponding root cause. Not all sources will be used.

Spanning-tree priority changed from default

DTP

VTP set to transparent

BPDU Guard

PortFast

Root Guard

Prevents changing the root bridge

Target 1

Target 2

Target 3

Prevents advertisement of unwanted VLANs

Target 4

Answer:

Explanation:

Prevents changing the root bridge

Spanning-tree priority changed from default

BPDU Guard

Root Guard

Prevents advertisement of unwanted VLANs

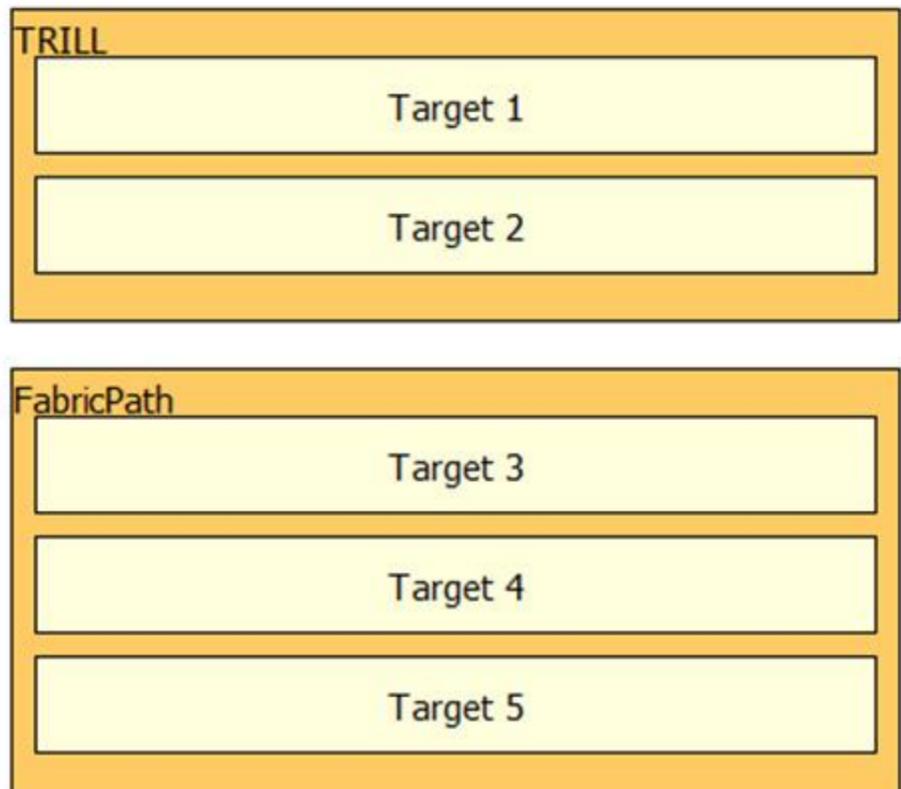
VTP set to transparent

NEW QUESTION 270

DRAG DROP

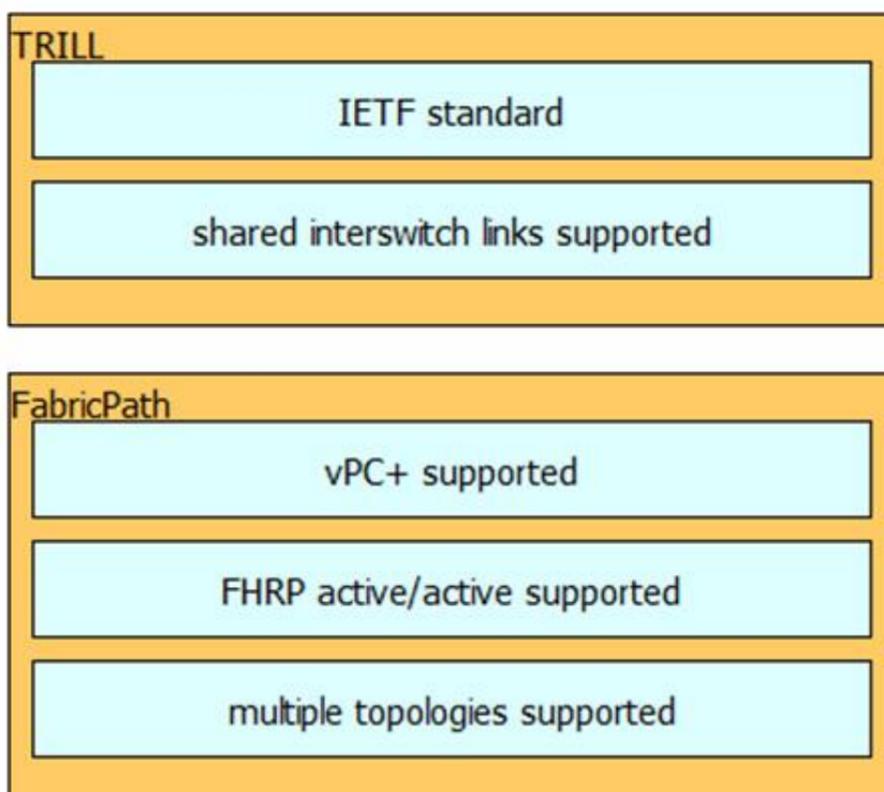
Drag and drop the technology details or features support on the left into the corresponding Layer 2 multipath technologies on the right. Not all options will be used.

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



Answer:

Explanation:



NEW QUESTION 275

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