



Cisco

Exam Questions 352-001

CCDE Written Exam

NEW QUESTION 1

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

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

Answer: CE

NEW QUESTION 2

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

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

Answer: AB

NEW QUESTION 3

Which three options are important design functions of IPv6 first-hop security? (Choose three)

- A. It prevents rogue DHCP servers from assigning IPv6 addresses.
- B. It prevents IPv6 packets fragmentation.
- C. It limits IPv6 route advertisement in the network.
- D. It implements a broadcast-control mechanism.
- E. It suppresses excessive multicast neighbor discovery.
- F. It implements multihoming security.

Answer: ACE

NEW QUESTION 4

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 5

What is a design application of control plane policing?

- A. CPP protects the control plane from reconnaissance and or denial-of-service attacks
- B. CPP protects the forwarding plane by rate-limiting excessive routing protocol traffic
- C. CPP protects the forwarding plane by allowing legitimate traffic and dropping excessive traffic
- D. CPP drop malformed packet that are sent to the CPU

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

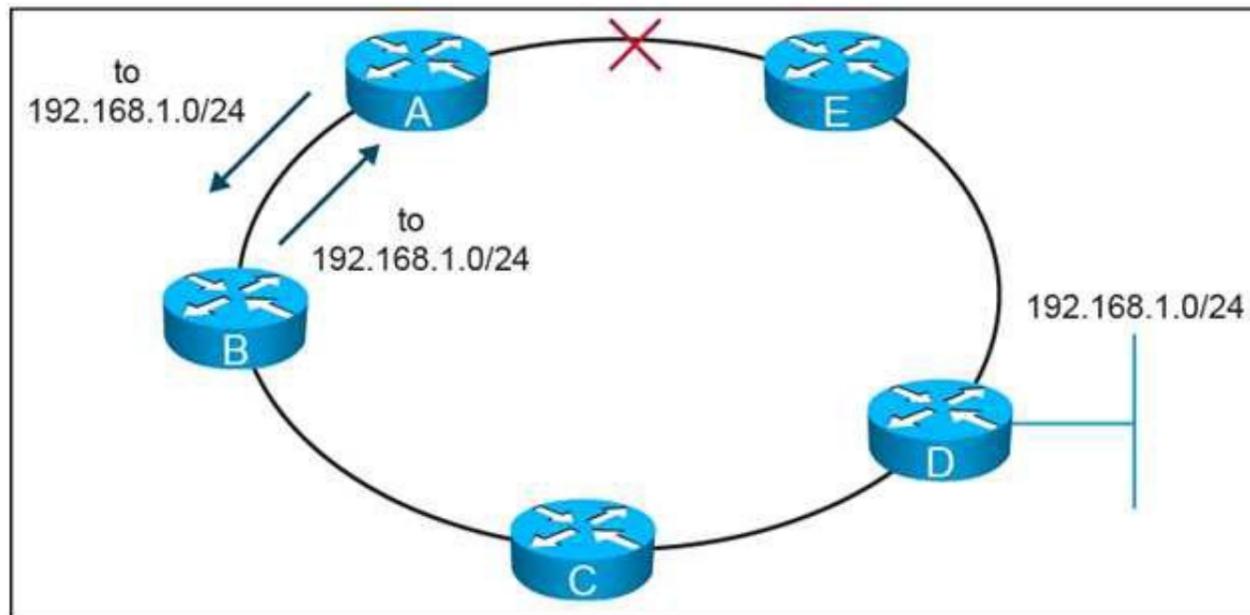
Which option is a design consideration when using routers in a distributed hardware architecture?

- A. Routing information is stored in the RIB and the FIB makes forwarding decisions as programmed on the line card hardware
- B. After a link failure occurs in the core, the RIB continues to forward the traffic while FIB convergence is in progress
- C. BGP routes are stored in the RIB and IGP routes are stored in the FIB
- D. IP routes are stored in the RIB and MPLS labels are stored in the FIB

Answer: A

NEW QUESTION 8

Refer to the exhibit.



On this MPLS-based network ring, links have failed between router A and router E. These failures formed microloops while the network converged, when A forwarded traffic to B but B forwards it back to

- A. Which technology is the simplest solution to avoid microloops without enabling a new protocol in the network?
- B. TE Fast ReRoute
- C. IP Fast ReRoute
- D. Loop-Free Alternate
- E. Remote Loop-Free Alternate

Answer: D

NEW QUESTION 9

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 10

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 10

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

- A. Bidirectional Forwarding Detection
- B. automatic protection switching
- C. UDLD
- D. Ethernet OAM

Answer: B

NEW QUESTION 13

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

- A. Applications
- B. Infrastructure connectivity
- C. Hardware
- D. Data

E. APIs

Answer: AD

NEW QUESTION 15

An ISP provides VoIP and internet services to its customers. For security reasons, these services must be transported in different MPLS Layer 3 VPNs over the ISP core network. The customer CEs do not have the ability to segment the services using different VLANs and have only one uplink interface that does not support VLAN tagging. How should you design the network to ensure that VoIP traffic that is received from the CE goes in the VoIP VPN, and that Internet traffic goes into the Internet VPN on the ISP PE devices?

- A. Use a secondary interface IP address to differentiate between VoIP and Internet traffic
- B. Extend the Layer 3 VPN toward the CE
- C. Enable NBAR on the PE to direct the traffic into the correct VRF
- D. Use a subinterface on the PE for each service, VoIP and Internet, with different subnets
- E. Use policy-based routing to direct traffic into the correct VRF

Answer: E

NEW QUESTION 19

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 21

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 26

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: AE

NEW QUESTION 28

You are presented with requirements to design a development, testing and production environments. These environment should communicate with each other, yet they should be kept as separate failure domains. Which routing protocol should be configured on the links between the networks to support the design requirements?

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

Answer: D

NEW QUESTION 33

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

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

Answer: BE

NEW QUESTION 34

You are consultant network designer for a large GET VPN deployment for a large bank with International coverage. Between 1800 and 2000 remote locations connect to the central location through four hubs using an MPLS backbone and using two keys servers. The bank is concerned with security and replay attacks. Which two actions should you use to tune the GET VPN to meet the bank requirements? (Choose two)

- A. Increase the cryptographic key size.
- B. Replace unicast rekey with multicast rekey.
- C. Reduce the SAR clock interval duration
- D. Increase the TEK and KEK lifetime.
- E. Reduce the Dead Peer Detection periodic timer.

Answer: BC

NEW QUESTION 35

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

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

Answer: BF

NEW QUESTION 39

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 43

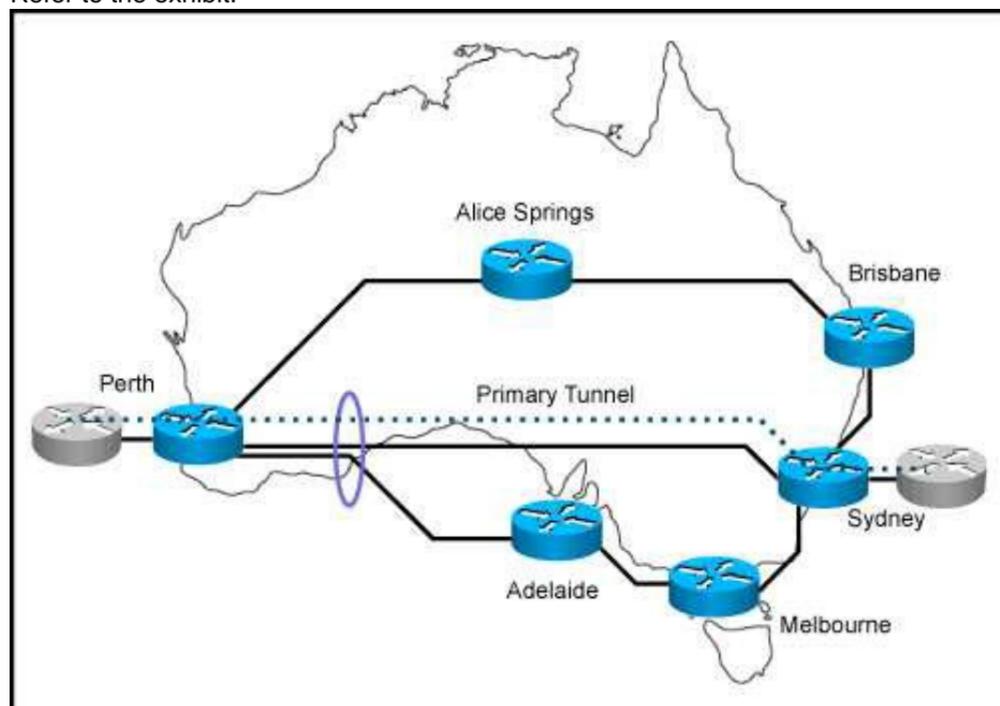
A BGP route reflector in the network is taking longer than expected to converge during network changes. Troubleshooting has shown that the router cannot handle all the TCP acknowledgements during route updates. Which action can be performed to tune device performance?

- A. Increase the size of the large buffers
- B. Decrease the size of the small buffers
- C. Increase the keepalive timers for each BGP neighbor
- D. Increase the size of the hold queue

Answer: D

NEW QUESTION 48

Refer to the exhibit.



You are designing MPLS-TE for this network. The links from Perth to Sydney and from Perth to Adelaide share the same optical fiber in one given segment. Which feature should you implement to eliminate the risk that a backup tunnel is installed over the same optical fiber as the primary one?

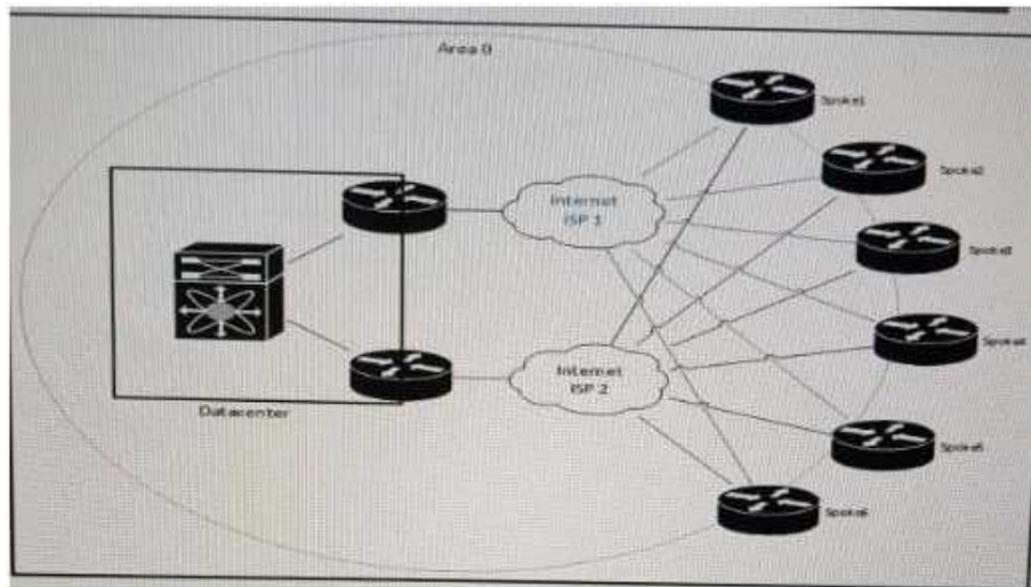
- A. Shared Risk Link Groups

- B. MPLS-TE Path Protection
- C. MPLS-TE auto-tunnel backup
- D. MPLS-TE Link protection

Answer: A

NEW QUESTION 51

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 56

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 60

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

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

Answer: C

NEW QUESTION 65

Which two options are design considerations when introducing FCoE into an existing network? (Choose two)

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

Answer: AE

NEW QUESTION 67

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 69

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 70

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 74

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

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

Answer: C

NEW QUESTION 75

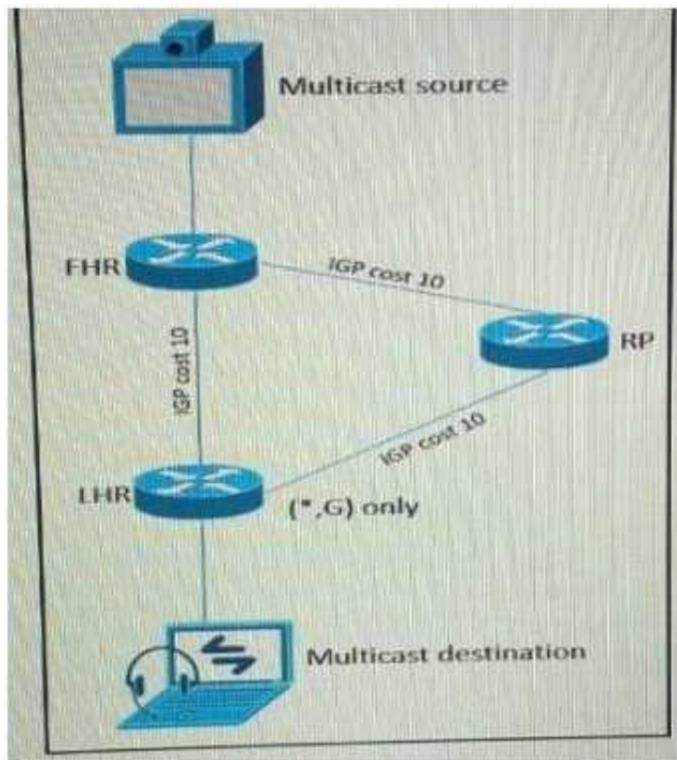
Which two options describe the advantages of using DWDM over traditional optical networks?
 (Choose two)

- A. Inherent topology flexibility with intelligent chromatic dispersion
- B. Inherent topology flexibility and service protection provided without penalty through intelligent oversubscription of bandwidth reservation
- C. Inherent topology flexibility with built-in service protection
- D. Inherent topology flexibility with a service protection provided through a direct integration with an upper layer protocol
- E. Ability to expand bandwidth over existing optical infrastructure

Answer: AE

NEW QUESTION 77

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 81

DRAG DROP

Drag and drop the NETCONF layers on the left onto their appropriate description on the left.

transport	defines a set of base protocol operations
messages	provides a communication path between the client and server
operations	provides a framing mechanism for encoding RPCs
content	holds information on data models and protocol operations

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 85

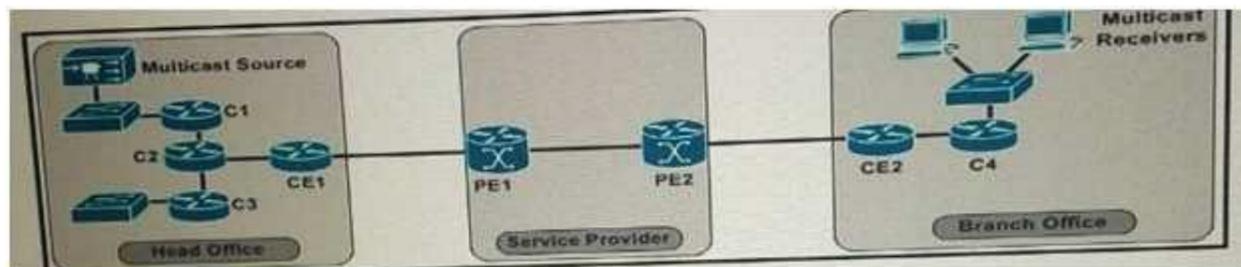
Which two options are potential problems with route aggregation? (Choose two)

- A. Maintaining host IP addresses during migrations
- B. Route flapping
- C. Suboptimal routing
- D. Topology hiding
- E. Asymmetric routing
- F. Prefix hijacking

Answer: CE

NEW QUESTION 87

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 88

A customer requests that you determine how much of their remote branch traffic into a central data center is related to a call manager that resides in the data center. Which solution do you recommend?

- A. Enable NetFlow on branch routers
- B. Enable netFlow on central data center routers
- C. Perform SNMP polling of central data center routers
- D. Perform SNMP polling of branch routers
- E. Create an ACL on the local call manager switch with logging enabled
- F. Span traffic from the switch port on the call manager to a data analyzer

Answer: B

NEW QUESTION 92

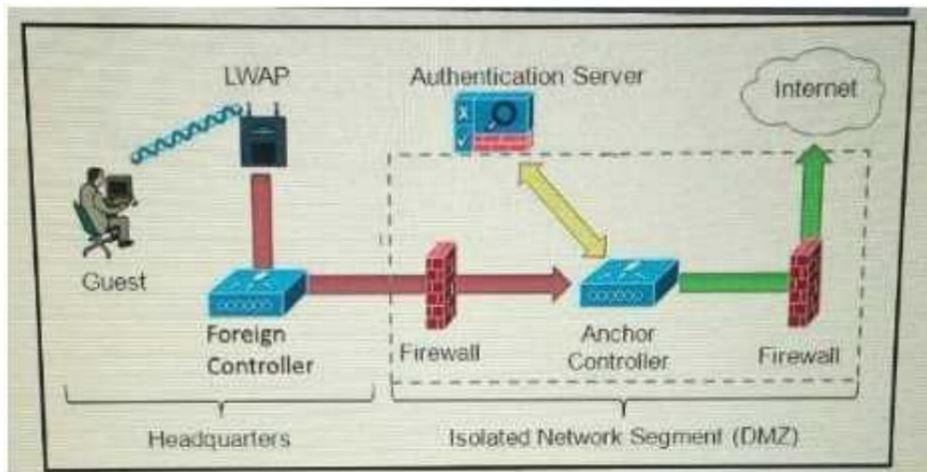
The service provider that you work for wants to offer IPv6 internet service to its customers without upgrading all of its access equipment to support IPv6, which transition technology do you recommend?

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

Answer: D

NEW QUESTION 94

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 95

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 97

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 98

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 102

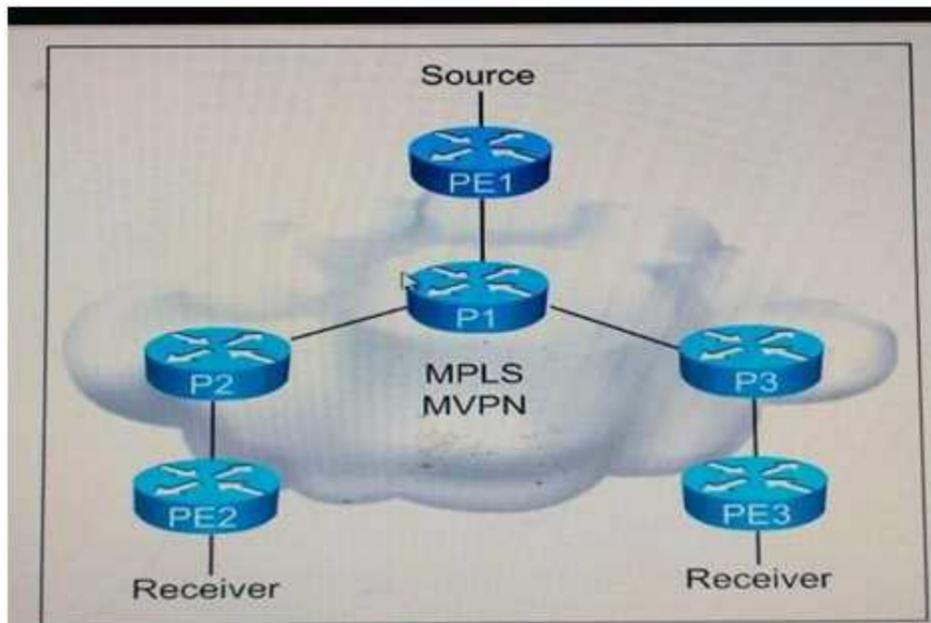
Which option reduces jitter in a VoIP network?

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

Answer: C

NEW QUESTION 107

Refer to the exhibit.



You are a network designer who is given these design requirements: Multicast services must be provided for Layer 3 VPN customers
 The same forwarding technology must be used as Layer 3 VPN unicast packets
 Replication of multicast traffic is not allowed on the ingress PE
 Which multicast VPN technology conforms to the design requirements?

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

Answer: C

NEW QUESTION 109

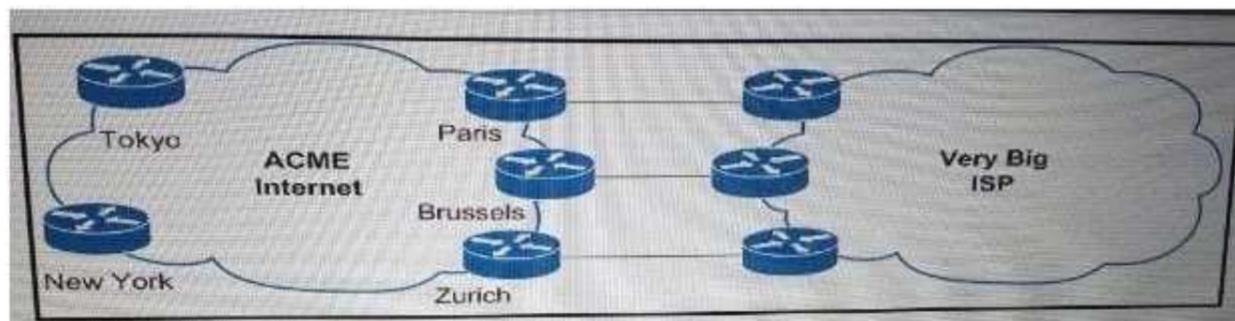
Which options do you investigate first when designing fast network convergence?

- A. Routing protocol database size
- B. MTU of the involved interfaces
- C. Link speed between sites
- D. Supported Layer 3 failure detection mechanism

Answer: D

NEW QUESTION 114

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 115

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 116

You are redesigning a single-level IS-IS network with 500 routers, which have short-haul and long-haul links. Most of the time the routing domain is stable, but periodically interfaces on 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, the client has concerns about taxing CPU cycles on the older routing platforms. What change should you recommend that both protects the CPU of the older routers during the short periods of excessive flapping, yet does not have an impact on fast convergence for all interface failures?

- A. Modify hello timers on routers with short-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. Implement a delay between successive IS-IS LSP packet transmissions on routers with long-haul links

Answer: D

NEW QUESTION 117

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

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

Answer: CD

NEW QUESTION 120

What are 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 125

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 126

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

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

Answer: C

NEW QUESTION 128

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 131

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 132

How must queue sizes be designed to ensure that an application functions correctly?

- A. The default queue sizes are good for any deployment
- B. Each individual device queuing delay in chain must be less than or equal to the application required delay
- C. The queuing delay on every device in chain must be exactly the same
- D. The sum of the queuing delay of all devices in chain must be less than or equal to the application required delay

Answer: D

NEW QUESTION 137

Your customer asked you to redesign there is-IS network to reduce to a minimum the number of adjacencies because the network has several routers running L1/L2 mode on the sme Ethernet segment. Which action do you recommend?

- A. Define only one router on the segment to be DIS
- B. Make the interface priority on the backup DIS lower than the primary DIS
- C. Change half the routers to L1 routers and half to L2 routers
- D. Change all routers to a single-level area

Answer: D

NEW QUESTION 138

In a design around fast convergence in case of a link failure, what is the justification for using a point-to-point OSPF network type on the Ethernet links between leaf-and-spine switches on a data center fabric?

- A. Link failure tears down neighbor relationships regardless of network type configured
- B. Type 1 LSAs are not generated on a point-to-point network type
- C. Adjacencies can be built faster without a DR/BDR on the segment
- D. The fabric memory requirements are significantly smaller than with a DR/BDR on each leaf and spine segment
- E. The point-to-point network type allows for NSF to be used in this design

Answer: C

NEW QUESTION 143

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

- A. If multiple applications share the same DSCP or CoS values, NBAR can be utilized
- B. The applications being monitored must be assigned a unique CoS value
- C. If multiple applications share the same the same DSCP or CoS values, IPFIX can be utilized

- D. The applications being monitored must be assigned a unique QoS profile
- E. The applications being monitored must be assigned unique DSCP values
- F. The reporting data must be assigned to a QoS profile to ensure accurate statistics

Answer: CF

NEW QUESTION 148

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 149

Which three reasons to deploy an IDS sensor in promiscuous mode when you design a security solution are true? (Choose three.)

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

Answer: ACD

NEW QUESTION 151

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

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

Answer: AC

NEW QUESTION 154

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 157

When is it required to leak routes into an IS-IS level 1 area?

- A. When MPLS L3VPN PE devices are configured in the level 1 areas
- B. When unequal cost load balancing is required between the backbone and nonbackbone areas
- C. When a multicast RP is configured in the nonbackbone area
- D. When equal cost load balancing is required between the backbone and nonbackbone areas

Answer: A

NEW QUESTION 159

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

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

Answer: CD

NEW QUESTION 164

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 167

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 168

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 172

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 174

A large ISP is analysing which IGP meets these following requirements Network must be resilient against unstable MTU in one side of newly released transmission pieces of equipment Network must support MPLS traffic engineering solution for future use Which IGP must be selected and why?

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

Answer: D

NEW QUESTION 178

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

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

Answer: D

NEW QUESTION 179

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

- A. Transmit delay
- B. Throttle timer
- C. SPF hold time
- D. Interface dampening

Answer: B

NEW QUESTION 183

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 184

In a network with dynamic mutual redistribution between multiple OSPFv2 and EIGRP boundaries, which two mechanisms avoid suboptimal routing? (Choose two)

- A. Route filtering
- B. AD manipulation
- C. Matching EIGRP process ID
- D. Matching OSPF external routes
- E. Route tagging

Answer: AE

NEW QUESTION 186

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 190

In an Ethernet link containing five routers with OSPF network interface type configured as broadcast, how many OSPF adjacencies are established on this Ethernet link?

- A. 7
- B. 5
- C. 10
- D. 20
- E. 6

Answer: A

NEW QUESTION 195

DRAG DROP

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

LDP		Protocols
RSVP		
BGP		
L2TPv3		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Protocols

LDP
BGP

NEW QUESTION 197
 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	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Source Distribution	limited receivers
Receiver Distribution	many receivers

NEW QUESTION 202
 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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Buffering
Policing
Shaping
Marking
WRED
ECN

NEW QUESTION 206
 DRAG DROP

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 209
 DRAG DROP

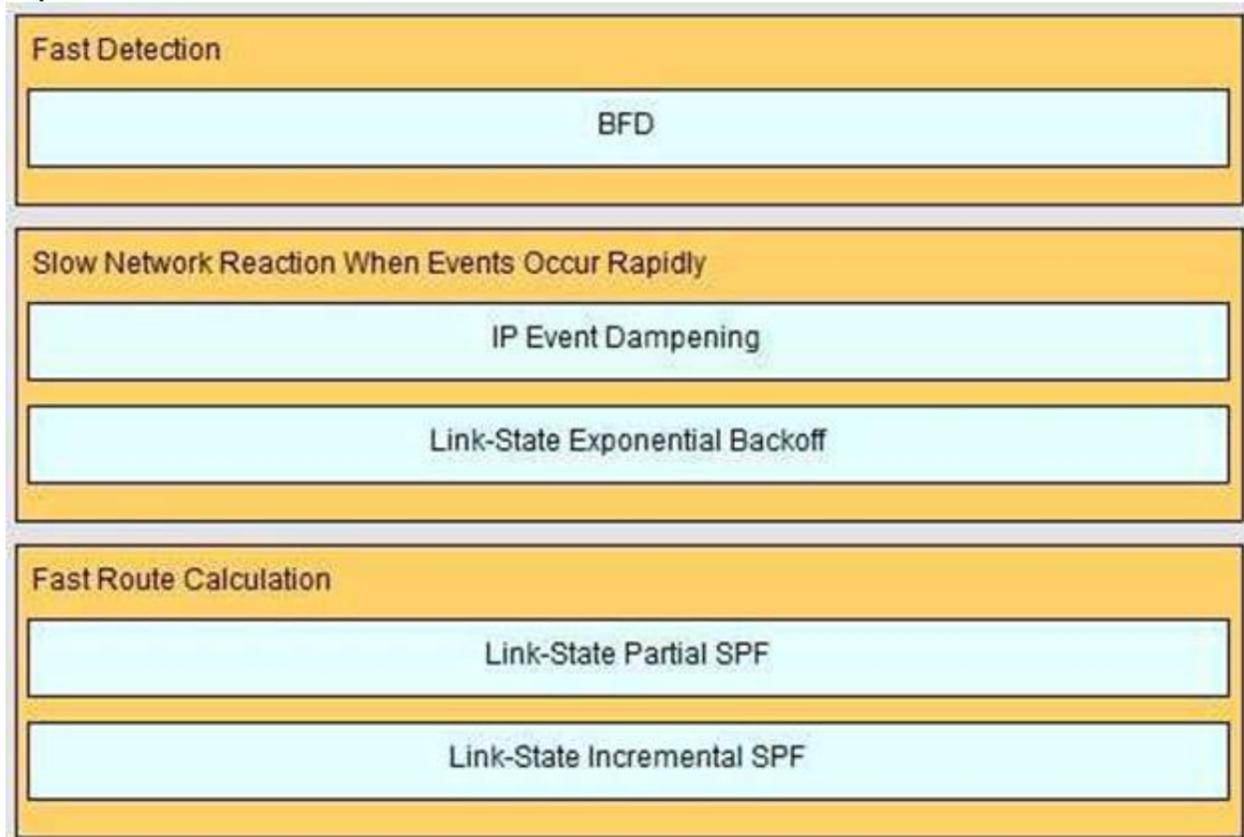
Drag the fast convergence mechanisms on the left and drop them into the objectives that they accomplish.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 212

DRAG DROP

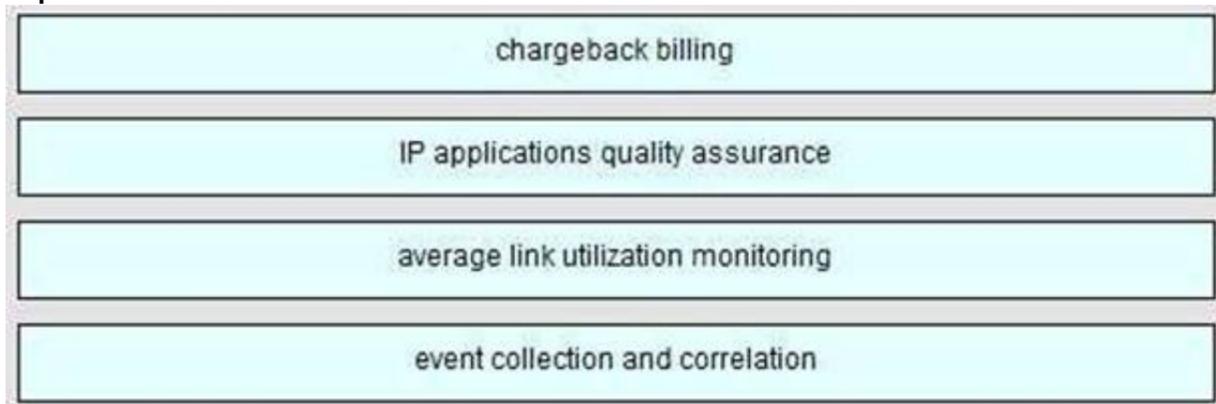
Drag the design requirements on the left to the appropriate tool and protocols on the right. Not all tools and protocols will be used.

chargeback billing	NetFlow
event collection and correlation	IP SLA
IP applications quality assurance	SNMP
average link utilization monitoring	Syslog
VoIP call quality monitoring	

- A. Mastered
- B. Not Mastered

Answer: A

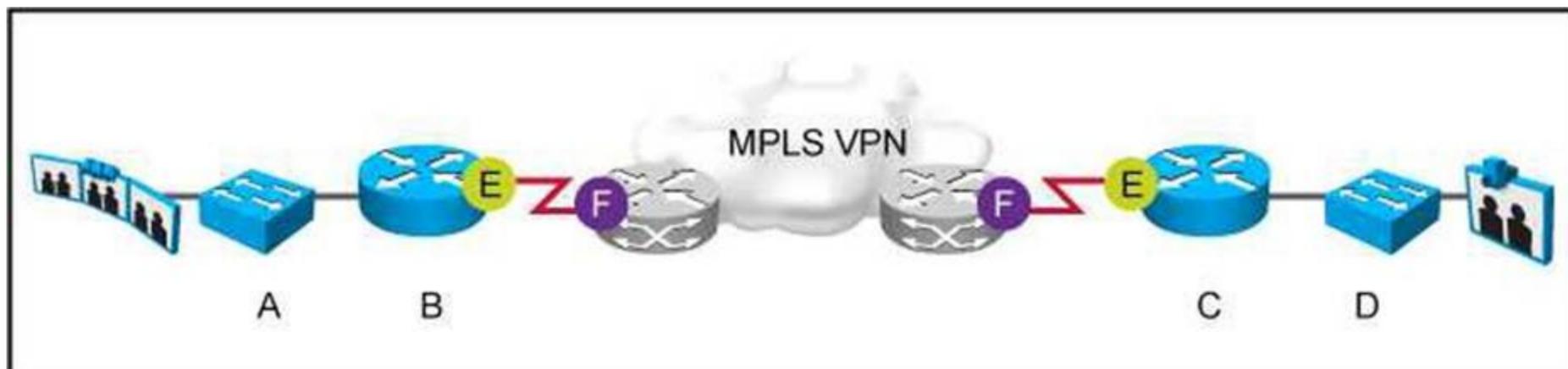
Explanation:



NEW QUESTION 213

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

- A. Mastered
- B. Not Mastered

Answer: A

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 214

DRAG DROP

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

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

- A. Mastered
- B. Not Mastered

Answer: A

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 217

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

TRILL

- Target 1
- Target 2

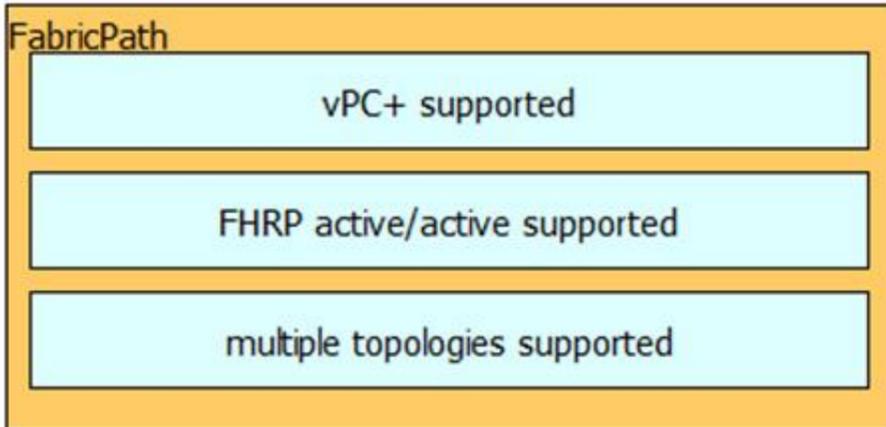
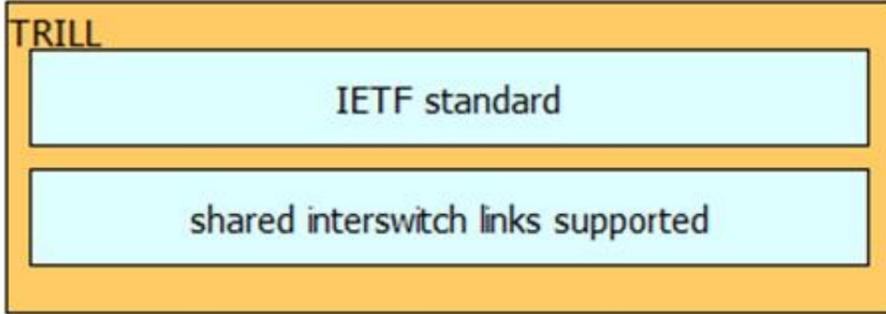
FabricPath

- Target 3
- Target 4
- Target 5

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 222

DRAG DROP

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

- design a VLAN dedicated for storage traffic
- design for server NIC teaming
- design a single VLAN per access switch
- design diverse cabling cabinets

- fault isolation
- redundancy
- segmentation

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

- design a single VLAN per access switch
- design for server NIC teaming
- design a VLAN dedicated for storage traffic

NEW QUESTION 224

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