



Cisco

Exam Questions 352-001

CCDE Written Exam

NEW QUESTION 1

The cloud service provider CSP is planning to launch five data centers in Egypt, United Arab Emirates, Saudi Arabia, Qatar and Turkey. CSP is looking for VLAN extension and DCIs between these five data centers to allow for software replication, where original and backup VMs must be on the same subnet. Which tunneling technology must they use?

- A. VPLS
- B. IPsec VPN
- C. VPWS
- D. L2TPv3

Answer: A

NEW QUESTION 2

As part of network design, two geographically separated data centers must be interconnected using Ethernet-over-MPLS pseudowire. The link between the sites is stable, the topology has no apparent loops, and the root bridges for the respective VLANs are stable and unchanging. Which aspect must be the part of the design to mitigate the risk of connectivity issues between the data centers?

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

Answer: B

NEW QUESTION 3

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

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

Answer: B

NEW QUESTION 4

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

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

Answer: D

NEW QUESTION 5

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 6

What is an implication of using route reflectors in an iBGP topology?

- A. Route reflection limits the total number of iBGP routers.
- B. Route reflection causes traffic to flow in a hub-and-spoke fashion.
- C. The manipulation of BGP attributes is not supported on the other routers than the route reflectors.
- D. Route reflectors can create routing loops when more than one router reflector is used in the same cluster.
- E. Multipath information is difficult to propagate in a route reflector topology.

Answer: E

NEW QUESTION 7

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 8

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

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

Answer: AD

NEW QUESTION 9

Refer to the exhibit.

Which data format is used in this REST API call?

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

Answer: A

NEW QUESTION 10

DRAG DROP

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

A, C, D

NEW QUESTION 10

Which feature or technology that affects the operations of IPsec should be taken into account when designing an IPsec network using Authentication header?

- A. TCP MSS adjustment
- B. Certificate-based authentication
- C. Transform set
- D. NAT

Answer: D

NEW QUESTION 11

Which statement about TAP and TUN devices, which are used in a Linux/KVM cloud deployment

model, is true?

- A. TUN is for handling IP packets, but TAP is for handling Ethernet frames
- B. TUN is for handling Ethernet frames, but TAP is for handling IP packets
- C. TUN is for tunneling IP packets, but TAP is for tapping IP packets
- D. TUN is for tunneling Ethernet frames, but TAP is for tapping Ethernet frames

Answer: A

NEW QUESTION 14

Refer to the exhibit.

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

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

Answer: E

NEW QUESTION 18

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 22

In which two ways is a network design improved by including IP Event Dampening? (Choose two)

- A. Provides sub-second convergence
- B. Quickly detects network failures
- C. Prevent routing loops
- D. Improves network stability
- E. Reduces processing load

Answer: DE

NEW QUESTION 25

What are two possible drawbacks of ending Loop-Free Alternate to support fast convergence for most destination IGP prefixes? (Choose two)

- A. The IGP topology might need to be adjust
- B. Loop-free alternate's convergence in less than 100 milliseconds is not possible
- C. Loop-free alternate's are supported only for prefixes that are considered external tot the IGP
- D. Loop-free alternates are not supported in global VPN VRF OSPF instances
- E. Additional path computations are needed

Answer: AE

NEW QUESTION 27

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 30

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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Detection: carrier delay, dead timer

Processing: LSA arrival timer, incremental SPF

NEW QUESTION 33

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 37

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

- A. Fault isolation
- B. Qos classification and marking boundary
- C. Fast transport
- D. Reliability
- E. Load balancing

Answer: CD

NEW QUESTION 39

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 43

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 45

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 48

There is an MPLS-enabled link constantly flapping on an MPLS VPN network. Given that the network runs OSPF as the IGP protocol, which design mechanism will stabilize the network and avoid constant re-convergence?

- A. IP Event Dampening
- B. OSPF fast hellos
- C. IP SLA
- D. Partial SPF

Answer: A

NEW QUESTION 52

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 55

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 56

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

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

Answer: C

NEW QUESTION 58

You are implementing a one-to-many multicast solution for a large service provider network. Which technology offers optimal routing of multicast traffic?

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

Answer: B

NEW QUESTION 63

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 67

A data center provider has designed a network using these requirements

Two data center sites are connected to the public internet

Both data centers are connected to different Internet providers

Both data centers are also directly connected with a private connection for the internal traffic can also be at this direct connection The data center provider has only /19 public IP address block

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

A. One /20 block is used for the first data center and the second /20 block is used for the second data center

B. The /20 block from the local data center is sent out without path prepending and the /20 block from the remote data center is sent out with path prepending at both sites

C. One /20 block is used for the first data center and the second /20 block is used for the second data center

D. Each /20 block is only sent out locally

E. The /19 block is sent out at both Internet connections for the backup case to reroute the traffic through the remaining internet connection

F. One /20 block is used for the first data center and the second /20 block is used for the second data center

G. The /20 block from the local data center is sent out with a low BGP local preference and the /20 block from the remote data center is sent out with a higher BGP local preference of both sites

H. BGP will always load-balance the traffic to both data center sites

I. One /20 block is used for the first data center and the second /20 block is used for the second data center

J. The /20 block from the local data center is sent out with a low BGP weight and the /20 block from the remote data center is sent out with a higher BGP weight at both sites

K. The data center provider must have an additional public IP address block for this routing

Answer: AB

NEW QUESTION 69

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 70

At which two network 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 area boundaries

E. At OSPF area boundaries

F. At EIGRP stub interface boundaries

Answer: BE

NEW QUESTION 73

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 76

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 79

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 81

What is a correct design consideration of IPv6 MLD snooping?

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

Answer: A

NEW QUESTION 86

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 87

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 88

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 93

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 98

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 102

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 107

Refer to the exhibit

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

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

Answer: C

NEW QUESTION 110

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 111

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 116

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 119

Refer to the exhibit.

Which routing solution is the most scalable to connect the branches to the HQ and to connect the branches together over the internet using DMVPN?

- A. EIGRP
- B. EIGRP with the branch routers setup as stubs
- C. OSPF with each branch router as an ABR
- D. IS-IS L2 in all locations
- E. OSPF Area 0 in all locations

Answer: B

NEW QUESTION 121

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 122

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 124

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

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

Answer: CE

NEW QUESTION 127

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 128

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 133

DRAG DROP

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

A, D, E

NEW QUESTION 136

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 138

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 139

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 144

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 146

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 150

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 155

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

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

Answer: B

NEW QUESTION 160

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 163

Which native mechanism does OSPF use to prevent loops in MPLS VPNs?

- A. CE devices that run OSPF set the DN bit toward the PE router
- B. PE devices that run OSPF clear the DN bit toward the CE router
- C. CE devices that run OSPF clear the DN bit toward the PE router
- D. Creation of PE to PE OSPF sham link across the MPLS-created super backbone
- E. PE routers verify OSPF domain IDs used by CE OSPF processes
- F. PE devices that run OSPF set the DN bit toward the CE router

Answer: F

NEW QUESTION 164

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 166

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

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

Answer: C

NEW QUESTION 168

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 169

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 173

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 174

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

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

Answer: AE

NEW QUESTION 178

Which open source message broker is in the Cisco Cloud Center?

- A. Apache Kafka
- B. HornetQ
- C. RabbitMQ
- D. Fuse Message Broker
- E. Oracle Message Broker

Answer: C

NEW QUESTION 180

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 182

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 183

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

- A. 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 184

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 186

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

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

Answer: D

NEW QUESTION 190

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 191

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

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

D. It reduces the complexity of the L1 domains

Answer: A

NEW QUESTION 194

How can EIGRP topologies be designed to converge as fast as possible in the event of a point-to-point link failure?

- A. Build neighbor adjacencies in a triangulated fashion
- B. Build neighbor adjacencies in a squared fashion
- C. Limit the query domain by use of distribute lists
- D. Limit the query domain b use of summarization
- E. Limit the query domain by use of default routes

Answer: D

NEW QUESTION 196

Which two IoT use cases require the low latency and high reliability that 5G networks provide?

- A. Smart Home
- B. Automotive
- C. Health and Wellness
- D. Smart Cities
- E. Sports and Fitness

Answer: BC

NEW QUESTION 197

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 199

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

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

Answer: BE

NEW QUESTION 203

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

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

Answer: C

Explanation:

[I think B not 100% sure]

NEW QUESTION 207

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 209

A company requires to connect two data center sites using a hub-and-spoke design. There are 2000 remote sites. It is required to transfer MPLS labeled packets over the public Internet using one router at each remote site. These MPLS labeled packets must be encapsulated inside IP packets. Which solution must be used to simplify this network design?

- A. GET VPN encrypts the MPLS packets with IPsec.
- B. DMVPN dynamically builds GRE tunnels with MPLS encapsulation inside.
- C. Site-to-site IPsec without GRE encapsulates the MPLS packets.
- D. PPPoE encapsulates the MPLS packets
- E. L2TPv3 encapsulated the MPLS packets

Answer: B

NEW QUESTION 211

Which three different behaviors must a network designer expect when bidirectional PIM is used instead of PIM Sparse Mode? (Choose three)

- A. The source IP addresses from the multicast senders cannot be seen in the multicast routing table
- B. The RPF check does not prevent routing loops when bidirectional PIM is used
- C. Many possible rendezvous point can be used for bidirectional PIM as compared to PIM Sparse Mode
- D. PIMv2 BSR is not supported with bidirectional PIM
- E. The join messages to join a bidirectional PIM multicast group are different compared to PIM-SM
- F. No rendezvous point is required when bidirectional PIM is used
- G. Auto-RP is not supported with bidirectional PIM

Answer: ADE

NEW QUESTION 212

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 213

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 218

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 223

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 225

As part of network design, two geographically separated data centers must be interconnected using Ethernet-over-MPLS pseudowire. The link between the sites is stable, the topology has no apparent loops, and the root bridges for the respective VLANs are stable and unchanging. Which aspect must be the part of the design to mitigate the risk of connectivity issues between the data centers?

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

Answer: B

NEW QUESTION 228

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 230

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 231

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 234

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 239

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 241

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 242

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 244

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 246

Refer to the exhibit.

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

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

Answer: AB

NEW QUESTION 248

DRAG DROP

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 249
DRAG DROP

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 251
DRAG DROP

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 255
DRAG DROP

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 260
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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 261

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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 263

DRAG DROP

As a network designer for a major multiservice network, your first assignment is to improve the IS-IS convergence to meet application requirements. Drag and drop the convergence tools or techniques to be used on your proposal from the left into the corresponding convergence phase on the right.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 266

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