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Vendor: Cisco

Exam Code: 352-001

Exam Name: ADVDESIGN

Version: Demo

QUESTION 1

Your design plan includes mutual redistribution of two OSPF networks at multiple locations, with connectivity to all locations in both networks. How is this accomplished without creating routing loops?

- A. Use route maps on the ASBRs to allow only internal routes to be redistributed.
- B. Use route maps on the ASBRs to allow internal and external routes to be redistributed.
- C. Use route maps on the ASBRs to set tags for redistributed routes.
- D. Use route maps on the ASBRs to filter routes with tags so they are not redistributed.

Correct Answer: D

QUESTION 2

When designing a network, which two security features should be added to the design to protect hosts from potential IPv6 neighbor discovery denial of service attacks at the access layer? (Choose two.)

- A. SEND
- B. RA Guard
- C. IKEv2
- D. IPsec
- E. DMVPNv6

Correct Answer: AB

QUESTION 3

A switched network is being designed to support a manufacturing factory. Due to cost constraints, fiber-based connectivity is not an option. Which design allows for a stable network when there is a risk of interference from the manufacturing hardware in use on the factory floor?

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

Correct Answer: A

QUESTION 4

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

- A. UDLD
- B. loop guard
- C. BPDU guard?
- D. root guard

Correct Answer: B

QUESTION 5

In which two ways is IPv4 and IPv6 traffic handled in a network design that uses QoS deployment options? (Choose two.)

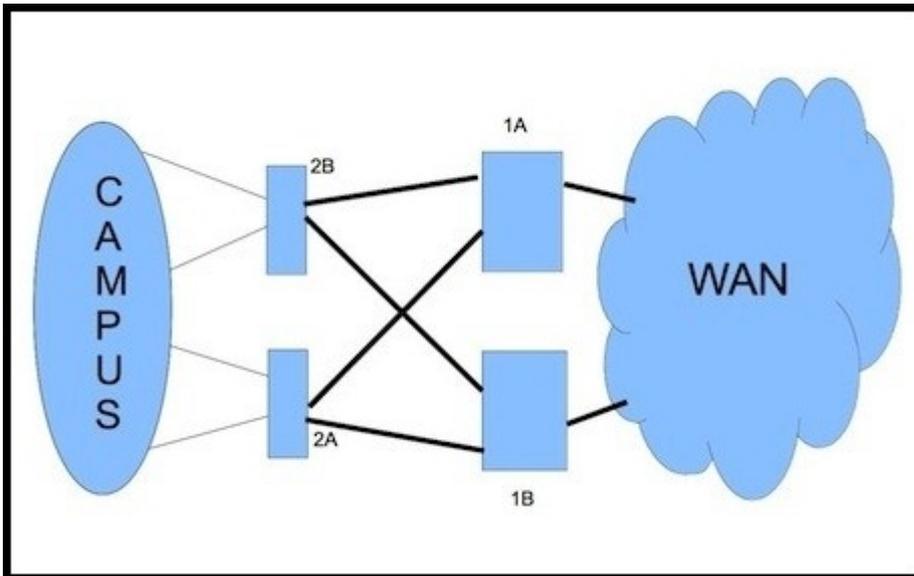
- A. IPv6 and IPv4 traffic is treated in the same way by using a single QoS policy that classifies and matches on both protocols.
- B. IPv6 traffic is treated differently than IPv4 by using the flow-label field, which is built into the IPv6 packet header.

- C. IPv6 traffic does not require QoS because it uses the flow-label field, which classifies and matches on the IPv6 protocol.
- D. IPv6 traffic is treated differently than IPv4 by using two different QoS policies.
- E. IPv6 traffic is treated differently than IPv4 because it uses only the DSCP value and not the IP precedence.

Correct Answer: AD

QUESTION 6

Refer to the exhibit.



How would you adjust the design to improve convergence on the network?

- A. Add an intra-POP link between routers 1A and 1B, and enable IP LFA FRR.
- B. Use an IP SLA between the end stations to detect path failures.
- C. Enable SSO-NSF on routers 1A and 1B.
- D. Use BGP to connect the sites over the WAN.

Correct Answer: A

QUESTION 7

A network designer is redesigning an enterprise campus network to ensure that Ethernet switches proactively attempt to reconnect after a fiber cut. In the design, they will have to address areas where fiber cuts exist on campus from past troubleshooting, where a single fiber is disconnected in the fiber pair, leading to looping. Which feature could be implemented in the design to allow the Spanning Tree Protocol on the switches to be protected?

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

Correct Answer: C

QUESTION 8

A network designer is working with a company to improve convergence at the Layer 2 control plane and decides to use LACP. Which of these components does LACP use to create the system ID?

- A. LACP system priority and switch MAC address
- B. LACP port priority and switch MAC address

- C. LACP port priority and port number
- D. LACP system priority and port number

Correct Answer: A

QUESTION 9

You are designing a network for a branch office. In order to improve convergence time, you are required to use the BFD feature. Which four routing protocols can you use to facilitate this? (Choose four.)

- A. EIGRP
- B. IS-IS
- C. BGP
- D. static
- E. RIP

Correct Answer: ABCD

QUESTION 10

Company X will be integrating an IPv6 application into their network and wants to develop a test environment to evaluate application performance across the network. This application will require both unicast and multicast communications. The company can do this implementation only in certain areas of its existing IPv4-only network, but wants all areas to communicate with each other. When developing the design to provide connectivity between these testing locations, what tunneling technology would work in this scenario?

- A. ISATAP
- B. 6to4
- C. DMVPN
- D. 6vPE
- E. 6PE

Correct Answer: C

QUESTION 11

You are designing a wireless LAN with the following components:

High-density indoor access point deployment
2.4-GHz and 5-GHz radios
802.11a, 802.11g, and 802.11n mode wireless LAN clients

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

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

Correct Answer: A

QUESTION 12

You have created a network design that has two point-to-point Metro Ethernet circuits extending a single production VLAN between two data centers. Under normal circumstances, one circuit will carry traffic and spanning tree will block the other. If the company wants you to make use of both circuits to carry production traffic, which two technologies and features will you investigate to integrate into your network design? (Choose two.)

- A. EtherChannel
- B. MST
- C. Multichassis EtherChannel
- D. PVST+

Correct Answer: AC

QUESTION 13

You are the SAN designer for the ABC Company. Due to budget constraints, there is increased pressure by management to further optimize server utilization by implementing virtualization technologies on all servers and increase virtual machines density. Faced with some SAN challenges, the server team requests your help in the design and implementation of the SAN in the new virtualized environment.

In which two ways can NPIV be used in your proposed design? (Choose two.)

- A. NPIV is used to assign multiple FCIDs to a single N Port.
- B. NPIV is used to define and bind multiple virtual WWNs (VIs) to a single physical pWWN.
- C. You recommend NPIV so that hosts can be members of different zones.
- D. NPIV can be used to allow multiple applications on the same port to use different IDs in the same VSAN.

Correct Answer: AD

QUESTION 14

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

Correct Answer: CF

QUESTION 15

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

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

Correct Answer: B

QUESTION 16

A network design shows two routers directly connected to an Ethernet switch using optical connections. There is an OSPF adjacency between the routers. In this design, which solution will ensure that interface down detection is reported as quickly as possible to the IGP?

- A. optimized OSPF SPF timers
- B. Bidirectional Forwarding Detection
- C. automatic protection switching
- D. optimized OSPF LSA timers
- E. Ethernet OAM CFM monitoring

Correct Answer: B

QUESTION 17

A company is planning to connect its 30 sites with a VPLS WAN backbone. A router at each site should establish neighborships with all other routers using the OSPF routing protocol. Which three points must be considered regarding DR and BDR when different router platforms are used? (Choose three.)

- A. It is a best practice that the routers with the most powerful hardware should take the role of the DR and BDR.
- B. If the IP OSPF priority is the same for all routers, the highest loopback IP address and router ID will decide which routers will take the DR and BDR role during the selection process.
- C. To select the DR and BDR, the IP OSPF priority must be set to a higher value than the default value at the DR and BDR during the selection process.
- D. To select the DR and BDR, the IP OSPF priority must be set to a lower value than the default value at the DR and BDR during the selection process.
- E. The role for the DR and BDR will be selected when a new OSPF router comes up.
- F. To force two routers to become a DR and a BDR, the IP OSPF priority can be set to zero at all other OSPF routers.

Correct Answer: ABF

QUESTION 18

You have been hired by Acme Corporation to evaluate their existing network and determine if the current network design is secure enough to prevent man-in-the-middle attacks. When evaluating the network, which switch security option should you investigate to ensure that authorized ARP responses take place according to known IP-to-MAC address mapping?

- A. ARP rate limiting
- B. DHCP snooping
- C. Dynamic ARP Inspections
- D. IP Source Guard

Correct Answer: C

QUESTION 19

A customer is using a service provider to provide a WAN backbone for a 30-site network. In establishing the network, the customer must work within these constraints:

The customer has a self-managed MPLS backbone.

The VPLS WAN backbone of the service provider does not support PIM snooping. Multicast VPN must be used for multicast support inside some VRFs.

What can the customer do so that multicast traffic is NOT flooded to all sites?

- A. Configure static GRE tunnels and run the MPLS and multicast VPN inside these GRE tunnels.
- B. Use Label Switched Multicast for the multicast transport.
- C. Use PIM-SSM as the multicast routing protocol with IETF Rosen Draft multicast VPN.
- D. Configure a static mapping between multicast addresses and MAC addresses.
- E. Use GET VPN to encrypt the multicast packets inside the WAN.

Correct Answer: A

QUESTION 20

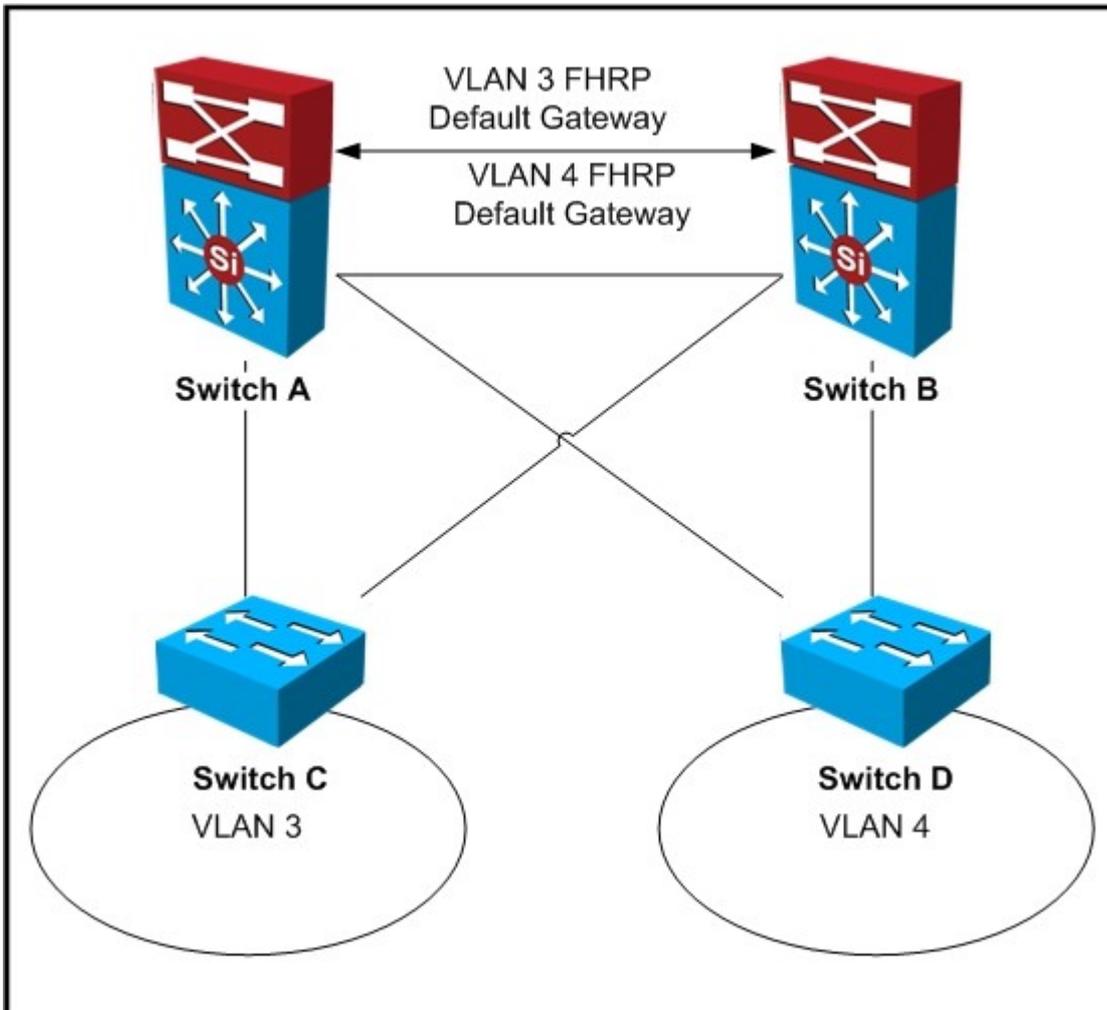
You are working on a network design plan for a company with approximately 2000 sites. The sites will be connected using the public Internet. You plan to use private IP addressing in the network design, which will be routed without NAT through an encrypted WAN network. Some sites will be connected to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

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

Correct Answer: D

QUESTION 21

Refer to the exhibit.



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

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

Correct Answer: CD

QUESTION 22

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

Internet?

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

Correct Answer: C

QUESTION 23

In an MPLS-VPN environment, what is the effect of configuring an identical set of route targets for a particular VRF, but then configuring nonidentical route distinguisher across multiple PE devices?

- A. The routes will be correctly handled by the control plane, but there will be instances where routes take up twice as much memory.
- B. The routes will propagate to the remote PE, but the PE will never install them in its forwarding table.
- C. The routes will be rejected by the remote PE because they have a different RD than its routes.
- D. The routes will not even be sent to any remote PE with a different RD.

Correct Answer: A

QUESTION 24

Your enterprise customer has asked where they should deploy flow monitoring in their network to monitor traffic between branch offices. What is your design recommendation?

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

Correct Answer: B

QUESTION 25

You are tasked with implementing a 1000-phone remote access solution, where phones will traverse a WAN edge router. Assuming all of the following features are supported in a hardware-assisted manner, which of the following will have the most detrimental impact on the delay of the packet?

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

Correct Answer: A

QUESTION 26

You are the lead IP/MPLS network designer of a service provider called XYZ. You are leading a design discussion regarding IPv6 implementation in the XYZ MPLS network, using MPLS 6PE/6VPE techniques. Currently, XYZ provides IPv4 multicast services over an MPLS network by using MVPN, and would like to provide parallel IPv6 multicast services. Which three multicast solutions should be enabled? (Choose three.)

- A. native IPv6, only for multicast services
- B. MPLS 6PE/6VPE, because it provides IPv6 multicast support by default
- C. an overlay model using Layer 2 MPLS tunnels
- D. PIM-DM to enable IPv6 multicast in conjunction with MPLS 6PE/6VPE
- E. MVPN for IPv6 multicast service

Correct Answer: ACE

QUESTION 27

Which three techniques can be used to improve fault isolation in an enterprise network design? (Choose three.)

- A. aggregate routing information on an OSPF ABR
- B. fully meshed distribution layer
- C. Equal-Cost Multipath routing
- D. EIGRP query boundaries
- E. multiple IS-IS flooding domains
- F. tuned Spanning Tree Protocol timers

Correct Answer: ADE

QUESTION 28

You are designing a multisite VPN solution for a customer and you are concerned with the additional overhead of point-to-point tunnels and the associated overlay routing with DMVPN. How does a GDOI-based VPN eliminate the additional tunnel and routing overhead found in DMVPN?

- A. The GDOI-based VPN requires overlaying a secondary routing infrastructure through the tunnels.
- B. In a GDOI-based VPN, all group members share a common security association.
- C. The GDOI-based VPN requires the provisioning of a complex connectivity mesh.
- D. The GDOI-based VPN leverages the routing protocol to find its peer for tunnel setup.

Correct Answer: B

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