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Exam : Cisco 642-353

Title : Cisco Storage Networking Design Specialist(CSNDS)

1. A customer is considering designing a new storage-network infrastructure to simplify storage network management. The existing solution uses ten 16-port 1-Gbps Fibre Channel switches. Two of the switches are deployed as core switches, and the remaining eight switches are deployed as edge switches. Each edge switch has an ISL to each of the two core switches. The disk array has four 1-Gbps Fibre Channel interfaces. Two interfaces connect to each of the core switches. Each of the 96 servers has a single 1-Gbps Fibre Channel host bus adapter.

Which configuration would provide equivalent or better performance while simplifying infrastructure management?

- A. two Cisco MDS 9140 Fabric Switches
- B. two Cisco MDS 9216 Fabric Switches, each with one 32-port Fibre Channel line card
- C. one Cisco MDS 9506 Multilayer Director with two 16-port Fibre Channel line cards and two 32-port Fibre Channel line cards
- D. one Cisco MDS 9506 Multilayer Director with four 32-port Fibre Channel line cards

Answer: D

2. What occurs in auto FCID allocation mode in the Cisco MDS 9000 Series?

- A. In all cases FCIDs are manually configured.
- B. All HBAs are assigned FCIDs with a whole area (port bits set to 0).
- C. All HBAs are assigned FCIDs with a whole port (area bits set to 0).
- D. Because the MDS 9000 Series Switches are newer, all HBAs are assigned FCIDs with both area and port bits.
- E. Only HBAs without interoperability issues are assigned FCIDs with both area and port bits.

Answer: E

3. In a core-edge SAN implementation, which statement is true about oversubscription?

- A. When using full-rate mode ports, there is no oversubscription in a core-edge implementation.
- B. A core-edge design has manageable oversubscription, but at the cost of used ISL ports.
- C. Oversubscription in a core-edge design is implemented by using N_Ports.
- D. When using a core-edge design, there is only oversubscription when it is implemented in a heterogeneous environment.

Answer: B

4. Which security technology will prevent unauthorized access through WWN spoofing, even in cases where one has physical access to fabric devices?

- A. port-mode security
- B. port binding
- C. Fibre Channel Security Protocol (FC-SP)
- D. RADIUS
- E. TACACS+

Answer: C

5. Refer to the exhibit. A customer is designing a SAN for each of two data centers. The two data centers are connected by dark fiber, which is owned by the customer. Cisco ONS platforms terminate the fiber and provide service aggregation. The customer requirements include that the SAN in each data center meet or exceed five nines of availability and be interconnected using 16 separate lambdas. Links between data centers must be able to tolerate failure of any component. The customer has eight storage devices in each data center, and each storage device has

eight Fibre Channel interfaces. Each data center has 120 servers, and each server has two host bus adapters. The servers generally require only 10 to 20MBps of throughput. The customer also requires that the solution be efficient on its use of ports, and provide room to grow by at least 10 percent to accommodate server growth over the next year. What is the most cost-effective design to satisfy these requirements?

- A. two Cisco MDS 9509 Multilayer Directors in each data center, each MDS 9509 with two 16-port Fibre Channel line cards and five 32-port Fibre Channel line cards
- B. two Cisco MDS 9509 Multilayer Directors in each data center, each MDS 9509 with seven 16-port Fibre Channel line cards
- C. two Cisco MDS 9509 Multilayer Directors in each data center, each MDS 9509 with one 16-port Fibre Channel line card and six 32-port Fibre Channel line cards
- D. two Cisco MDS 9509 Multilayer Directors in each data center, each MDS 9509 with seven 32-port Fibre Channel line cards

Answer: A

6. What feature of the MDS 9000 family would be most valuable in establishing a baseline of the traffic load on an existing network prior to making changes?

- A. SPAN
- B. RSPAN
- C. FC-SP
- D. Performance Manager
- E. AAA

Answer: D

7. What provides storage virtualization from IBM?

- A. Advanced Services Module (ASM)
- B. Caching Services Module (CSM)
- C. Storage Services Module (SSM)
- D. Cisco MDS 9000 32-port 1/2-Gbps FC Module
- E. IP Multiprotocol Services Module

Answer: B

8. What are three reasons to implement VSANs in a Fibre Channel SAN? (Choose three.)

- A. to reduce network infrastructure requirements
- B. to increase data security
- C. to enable port-channeling
- D. to enable TCP/IP routing
- E. to share SAN extension capability using EISLs

Answer: ABE

9. What technology minimizes the potential for service interruption on SAN extension links?

- A. FCIP
- B. VRRP
- C. VSANs and IVR
- D. Port Channeling

Answer: D

10. Select two Cisco value-added Fibre Channel features. (Choose two.)

- A. FSPF routing
- B. 8-bit/10-bit encoding and decoding
- C. VSAN-based QoS
- D. Fibre Channel Congestion Control
- E. Fibre Channel Security Protocol (FCP) support

Answer: CD

11. Which technology should be used to provide transparent low latency FC transport across a metropolitan area?

- A. DWDM
- B. FCIP
- C. iSCSI
- D. iFCP

Answer: A

12. Which statement is true concerning the Cisco MDS switch when operating in native interop mode?

- A. The MDS switch can interoperate with Non-MDS switches that are certified by SNIA.
- B. The MDS switch can interoperate with Non-MDS switches that support "MDS Native" mode.
- C. The MDS switch can interoperate with Non-MDS switches that properly adhere to Fibre Channel switch standards.
- D. The MDS switch cannot interoperate with Non-MDS switches.

Answer: C

13. Which SFP and media-type combination do you recommend for a high-speed 10-kilometer link between two Cisco MDS switches?

- A. 2-GbpsW, LC SFP, 50/125-micron multi-mode media
- B. 2-GbpsW, LC SFP, 62.5/125-micron multi-mode media
- C. 2-GbpsW, LC SFP, 9/125-micron single-mode media
- D. 2-GbpsW, LC SFP, 50/125-micron single-mode media

Answer: C

14. A customer SAN design requires the use of existing non-Cisco storage switches in a core edge topology. What must be considered when attaching an MDS 9000 switch as the core device in this network?

- A. Trunking is not supported between the core and edge switches.
- B. Zoning cannot be used since the domain IDs are in different ranges.
- C. FSPF cannot be used between the core and edge switches.
- D. If VSANs are implemented in the core, IVR cannot be used.

Answer: A

15. A customer has 12 hosts, each capable of a maximum burst I/O rate of 75 MBps. The customer wants to connect these hosts to the fabric with a 32-port line card. For optimal performance what is the maximum number of hosts that should be connected to any four-port, host-optimized quad?

- A. one
- B. two
- C. three
- D. four

Answer: C

16. A customer has four data centers within corporate headquarters. The company owns its own fiber infrastructure and has laid dark fiber in between each of the four data centers. Each of the data centers has a storage area network that includes application servers, disk arrays, and tape devices. Servers from each of the buildings require access to storage devices in different buildings. The administrator would like to design a highly resilient topology that allows for a single hop from server to storage across data centers.

Which SAN topology between the data centers would best fit this requirement?

- A. core-edge
- B. collapsed core
- C. partial mesh
- D. full mesh

Answer: D

17. Which statement is true about LUN zoning in a heterogeneous environment?

- A. Hardware-enforced LUN zoning helps to ensure that LUNs are accessible by all hosts.

- B. Use LUN zoning instead of LUN masking to centralize management in mixed storage environments.
- C. LUN zoning requires no special configuration on storage arrays.
- D. LUN masking should be used in all situations.

Answer: B

18. Select three common attributes of Gigabit Ethernet compared to Fibre Channel as a storage transport service.
(Choose three.)

- A. high bandwidth
- B. low bandwidth
- C. high latency
- D. low latency
- E. long distance

Answer: BCE

19. Which Cisco MDS feature alleviates a head-of-line blocking condition when occasional bursts of traffic exceed the capacity of an end device to receive data?

- A. VOQs
- B. VSAN allowed list
- C. FCC
- D. QoS

Answer: A

20. Which statement best defines storage consolidation?

- A. making an enterprise's total disk space highly available to the entire enterprise, often by placing it in a SAN
- B. making an enterprise's disk space, servers, and tape libraries highly available to the entire enterprise, often by placing them in a SAN
- C. making an enterprise's total storage networking less costly by using iSCSI
- D. making an enterprise's total disk space highly available by transferring copies of an enterprise's total storage space to an offsite location
- E. making an enterprise's total disk space highly available by connecting all of an enterprise's storage devices to one (or two) large servers

Answer: B

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