

# SNIA

## Exam S10-300

snia storage architect-assessment,planning&design

Version: 5.0

[ Total Questions: 100 ]

**Topic break down**

<b>Topic</b>	<b>No. of Questions</b>
<b>Topic 0: A</b>	<b>50</b>
<b>Topic 1: B</b>	<b>50</b>

**Topic 0, A**

A

**Question No : 1 - (Topic 0)**

A customer has a disk subsystem with eight ports. Each port delivers 200 MB/s. The customer wants a solution designed which allows access from 32 servers with no single point of failure. Which number of HBAs and the associated throughput, provide server access to the disk subsystem?

- A. 16 HBAs, 75 MB/s
- B. 32 HBAs, 90 MB/s
- C. 64 HBAs, 25 MB/s
- D. 64 HBAs, 50 MB/s

**Answer: C****Question No : 2 - (Topic 0)**

A customer requires a high-availability SAN for disk access. The disk array and server may each have multiple ports. How many Fabric switch ports are necessary for full redundancy in a network with one disk array and one server? (Note: throughput is not a consideration.)

- A. 3
- B. 4
- C. 5
- D. 6

**Answer: B****Question No : 3 - (Topic 0)**

Which statement is correct?

- A. Fan-in is the ratio of switch ports to host ports; and indication of switch load at a single host port.
- B. Fan-in is the ratio of storage ports to host ports; an indication of storage load at a single host port.
- C. Fan-in is the ratio of switch ports to storage ports; an indication of switch load at a single storage port.
- D. Fan-in is the ratio of host ports to storage ports; an indication of host traffic load at a

single storage port.

**Answer: B**

**Question No : 4 - (Topic 0)**

Which demonstrates a strong potential for data center error(s)?

- A. unrestricted vendor access to infrastructure for immediate resolution issues
- B. precise documentation that outlines steps to perform during common fault conditions
- C. defined roles and scope of all employees that service and maintain infrastructure equipment
- D. approved change control process that limits actions to the infrastructure to those who are qualified

**Answer: A**

**Question No : 5 - (Topic 0)**

A company needs to protect against data corruption using split mirror snapshots. Their RTO is 15 minutes and RPO is one hour. It takes 15 minutes to create an incremental split mirror snapshot. Which scenario fulfills their needs most efficiently?

- A. Use one snapshot volume and incrementally establish it every 60 minutes.
- B. Use one snapshot volume and incrementally establish it every 30 minutes.
- C. Use two snapshot volumes and incrementally establish one volume every hour.
- D. Use two snapshot volumes and incrementally establish one volume every 30 minutes.

**Answer: D**

**Question No : 6 - (Topic 0)**

You have been asked to design a SAN/NAS that stores data that will be internally read by web browsers for data replay. Some browsers are more likely to render a readable version of a standards-based page, whereas some browsers will have problems rendering table-based data, invalidating your design. What should you implement in your design to mitigate these concerns?

- A. A NAS solution that tracks users browser use

- B. A SAN solution that tracks users browser use
- C. A NAS solution that segregates the data types for browser reading
- D. A SAN solution that segregates the data types for browser reading

**Answer: C**

**Question No : 7 - (Topic 0)**

Given point-to-point, bus, loop and Fabric topologies, which solution would be considered a mixed topology approach using three separate but interconnected topologies?

- A. a Fibre Channel-based storage network using Fabric switches with both loop attached and point-to-point attached servers and storage
- B. a cluster of servers connecting to Ethernet switches with a combination NAS Gateway Object storage system for file sharing and block access
- C. a mixed Serial ATA (SATA) and Serial Attached SCSI (SAS) solution using expanders where the SATA disks and the SAS disks share connectivity to the expanders
- D. an Ethernet-based iSCSI storage network using Ethernet hubs connected to Ethernet switches with the storage devices directly attached to switches and the servers connected to hubs

**Answer: A**

**Question No : 8 - (Topic 0)**

A SAN is supporting Windows and SUN operating systems. What should the administrator do to support the heterogeneous OSs?

- A. Use zoning to separate hosts.
- B. Have a different fabric for each OS.
- C. Use LUN masking to separate hosts.
- D. Direct attach each host to the storage array.

**Answer: A**

**Question No : 9 - (Topic 0)**

A host is using 10 logical devices from an array. The administrator is adding one additional virtual device for host use. What should be done?

- A. Create a logical volume on the array, configure LUN masking, reboot the host.
- B. Create a logical volume on the array, configure LUN masking, rescan the SCSI bus.
- C. Create a logical volume on the array, zone the host to the array ports, configure LUN masking, reboot the host.
- D. Create a logical volume on the array, zone the host to the array ports, configure LUN masking, rescan the SCSI bus.

**Answer: B**

**Question No : 10 - (Topic 0)**

A four switch Fabric with 8 ports per switch using a full-mesh connectivity approach will have 20 ports available for Fabric attached devices. How many ports will be available using the full mesh approach when increasing the number of switches from four to six?

- A. 12
- B. 18
- C. 20
- D. 24

**Answer: B**

**Question No : 11 - (Topic 0)**

A cascade network topology can be used for which two purposes? (Choose two.)

- A. Create a fault resilient storage network with two or more switches.
- B. Interconnect multiple switches together that are local or remote via ISLs.
- C. Connect two or more switches where all switches do not have to have direct access to each other.
- D. Establish a storage network that enables all switches regardless of number of switches to connect to each other.

**Answer: B,C**

**Question No : 12 - (Topic 0)**

What are three key advantages of deploying a director-based solution over a mesh of switches? (Choose three.)

- A. lower cost
- B. consistent latency
- C. improved availability
- D. increased hop count
- E. ease of management

**Answer: B,C,E**

**Question No : 13 - (Topic 0)**

A customer is configuring a host to have access to four virtual devices. The customer wants to create a RAID 10 volume using these devices. The customer has two arrays and will be mirroring between arrays and striping within arrays. The arrays are not zoned to see each other. Which two choices are valid? (Choose two.)

- A. file based virtualization
- B. host based virtualization
- C. device based virtualization
- D. network based virtualization

**Answer: B,D**

**Question No : 14 - (Topic 0)**

You are architecting a redundant SAN which will include 100 hosts with dual HBAs, 50 hosts with quad HBAs, and storage arrays which have a total of 48 ports. The SAN implements redundant Fabrics and redundant ISLs. A 128 port director is ten times as expensive as a 16 port switch. Focusing on management, cost, performance, and future expansion, which solution is the most effective?

- A. 4 directors
- B. 32 switches in a mesh configuration
- C. 2 directors and 16 switches in a mesh configuration
- D. 2 directors and 16 switches in a core edge configuration

**Answer: A**

**Question No : 15 - (Topic 0)**