



E10-001^{Q&As}

Information Storage and Management Exam Version 2

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QUESTION 1

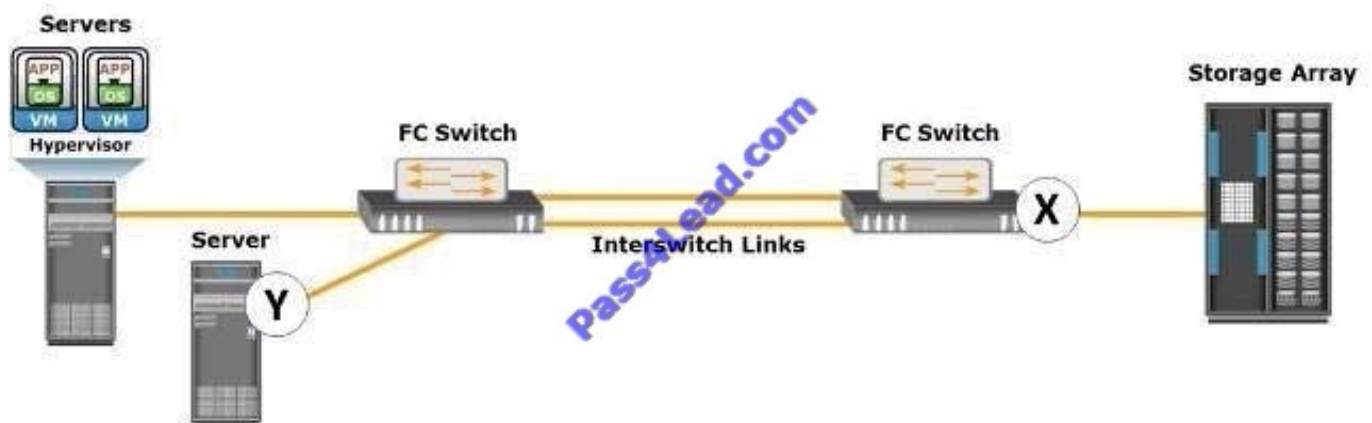
What is a method for an iSCSI initiator to discover its targets?

- A. Initiator sends a query to an iSNS server for a list of available targets
- B. Initiator is configured with the target's Ethertype to perform discovery
- C. Initiator employs data center bridging exchange protocol for the discovery
- D. Initiator sends SCSI commands and the target responds by sending its name

Correct Answer: A

QUESTION 2

Refer to the exhibit.



Which type of Fibre Channel (FC) ports do "X" and "Y" represent in the exhibit?

- A. X is an F_Port and Y is an N_Port
- B. X is an N_Port and Y is an E_Port
- C. X is an E_Port and Y is an F_Port
- D. X is an N_Port and Y is an F_Port

Correct Answer: A

QUESTION 3

What is the correct sequence of steps in a read-miss operation with cache?

Select and Place:



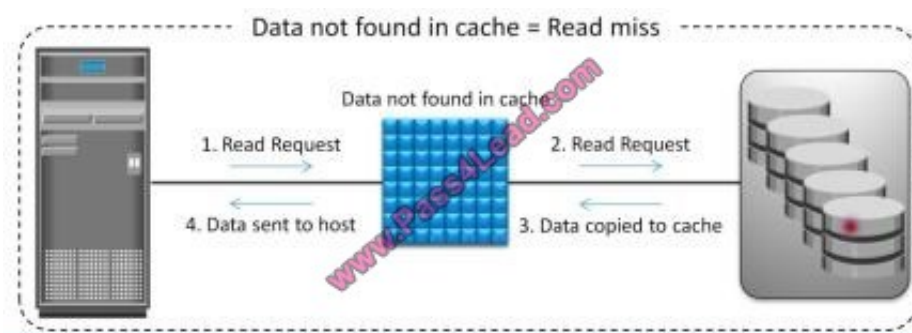
Data is copied to cache	
Read request is issued to disk	
Data is sent to the host	
Host issues a read request	

Correct Answer:

	Host issues a read request
	Read request is issued to disk
	Data is copied to cache
	Data is sent to the host

Explanation:

Read Operation with Cache



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QUESTION 4

How can the loss of uncommitted cached data be minimized when there is a cache failure?



- A. Cache vaulting
- B. Cache striping
- C. Cache flushing
- D. Cache mirroring

Correct Answer: D

Cache Data Protection Cache is volatile memory, so a power failure or any kind of cache failure will cause loss of the data that is not yet committed to the disk. This risk of losing uncommitted data held in cache can be mitigated using cache mirroring and cache vaulting: Cache mirroring: Each write to cache is held in two different memory locations on two independent memory cards. If a cache failure occurs, the write data will still be safe in the mirrored location and can be committed to the disk. Reads are staged from the disk to the cache; therefore, if a cache failure occurs, the data can still be accessed from the disk. Because only writes are mirrored, this method results in better utilization of the available cache. In cache mirroring approaches, the problem of maintaining cache coherency is introduced. Cache coherency means that data in two different cache locations must be identical at all times. It is the responsibility of the array operating environment to ensure coherency. Cache vaulting: The risk of data loss due to power failure can be addressed in various ways: powering the memory with a battery until the AC power is restored or using battery power to write the cache content to the disk. If an extended power failure occurs, using batteries is not a viable option. This is because in intelligent storage systems, large amounts of data might need to be committed to numerous disks, and batteries might not provide power for sufficient time to write each piece of data to its intended disk. Therefore, storage vendors use a set of physical disks to dump the contents of cache during power failure. This is called cache vaulting and the disks are called vault drives. When power is restored, data from these disks is written back to write cache and then written to the intended disks.

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QUESTION 5

What is a feature of cloud-optimized storage?

- A. Provides self-service and metered access to storage resources
- B. Enables massive scalability through the use of intelligent flash cards
- C. Provides a unified namespace to automate the creation of cloud services
- D. Enables secure multi-tenancy through the use of privilege elevation

Correct Answer: A

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