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HP Storage Migration

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QUESTION 1

A customer is planning to maximize the capacity of a new HP 3PAR StoreServ 7400 Storage System. Including the base controller enclosures, what is the maximum number of disk enclosures that are supported?

- A. 5
- B. 10
- C. 20
- D. 26

Correct Answer: C

Capacity Details	3PAR StoreServ 7200	3PAR StoreServ 7400	3PAR StoreServ File Controller
RAID Levels	RAID 0, 1, 5, 6	RAID 0, 1, 5, 6	RAID 0, 1, 5, 67
RAID 5 Data to Parity Ratios	2:1 - 8:1	2:1 - 8:1	2:1 - 8:17
RAID 6 Data to Parity Ratios	4:2, 6:2, 8:2, 10:2, 14:2	4:2, 6:2, 8:2, 10:2, 14:2	4:2, 6:2, 8:2, 10:2, 14:27
Drive Capacities (approximate GB ²) (RAID levels, parity ratios, and drive capacities all mixable within the same Storage System)	100 SSD*, 200 SSD* 300 SAS, 450 SAS, 600 SAS, 900 SAS, 1000 NL, 2000 NL ⁵ , 3000 NL ⁵	100 SSD*, 200 SSD* 300 SAS, 450 SAS, 600 SAS, 900 SAS, 1000 NL, 2000 NL ⁵ , 3000 NL ⁵	Not Applicable
Number of Add-on Drive Enclosures (Each Drive Enclosure holds up to 24 drives in 2U for small form factor drives and 4U for large form factor drives)	0 - 5 enclosures	0 - 18 enclosures	Not Applicable

The 7400 has two basic drive enclosures with 4 nodes an can add up to 18 additional drive enclosures, total 20. That makes sense because the maximum number of supported disk is 480 / 24= 20.

QUESTION 2

A customer plans to implement an HP StoreVirtual 4000 Storage System.

Which NICs can the customer use to enable adaptive load balancing after installation? (Select two.)

- A. three 10GbE
- B. one 10GbE
- C. one 1GbE
- D. two 10GbE
- E. two 1GbE
- F. three 1GbE

Correct Answer: DE

Bonding method supported

Supported NIC bonded configurations

		ALB	ALB	LACP	LACP	A/P	A/P
		1 Gb	10 Gb	1 Gb	10 Gb	1 Gb	10 Gb
ALB	1 Gb	Y	N				
ALB	10 Gb	N	Y				
LACP	1 Gb			Y	N		
LACP	10 Gb			N	Y		
A/P	1 Gb					Y	Y
A/P	10 Gb					Y	Y

ALB = Adaptive load balancing
LACP = Link aggregation
A/P = Active/Passive
Y = Supported
N = Not supported
Gb = Gigabits

Note:

* Adaptive load balancing (ALB)

Uses interfaces simultaneously for data transfer (receive and transmit load balancing). If one connection fails, the remaining connection continues without disruption to the storage nodes operation or iSCSI sessions. It offers the benefits of the

increased transmission rates without additional switch configuration. Interfaces in an ALB bond may be connected to different switches and therefore supports switch failover.

QUESTION 3

A customer is planning to implement an HP StoreVirtual 4330FC Storage System

Which type of cable do they need to connect the storage system to the fabric?

- A. SC Fibre Channel
- B. LC Fibre Channel
- C. iSCSI
- D. SAS

Correct Answer: A

QUESTION 4

A customer needs to balance storage high availability and cost to meet various service level agreements, depending on the application requirement. Which storage methodology should the customer use?

- A. storage RAID
- B. storage federation
- C. storage tiering
- D. deduplicated storage

Correct Answer: C

Tiered storage is the assignment of different categories of data to different types of storage media in order to reduce total storage cost. Categories may be based on levels of protection needed, performance requirements, frequency of use,

and other considerations. Since assigning data to particular media may be an ongoing and complex activity, some vendors provide software for automatically managing the process based on a company-defined policy.

As an example of tiered storage, tier 1 data (such as mission-critical, recently accessed, or top secret files) might be stored on expensive and high-quality media such as double-parity RAIDs (redundant arrays of independent disks). Tier 2

data (such as financial, seldom-used, or classified files) might be stored on less expensive media in conventional storage area networks (SANs). As the tier number increased, cheaper media could be used. Thus, tier 3 in a 3-tier system might

contain event-driven, rarely used, or unclassified files on recordable compact discs (CD-Rs) or tapes.

Incorrect:

Not B:

Much like vMotion in VMware environments, storage federation goes beyond the capabilities of storage virtualization. Storage federation from HP enables the online non-disruptive movement of storage volumes between arrays in a metro area. Unlike external storage virtualization appliances that add cost, complexity and downtime, storage federation from HP creates a persistent pool of capacity using native communication between system controllers.

QUESTION 5

A customer with a Fibre Channel SAN needs to ensure that in-transit data is secure through the use of device authentication and encrypted secure key exchange.

Which Fibre Channel standard enables them to meet this goal?

- A. FC-PH
- B. FC-OE

C. FC-CHAP

D. FC-SP

Correct Answer: D

Fibre Channel Security Protocol (FC-SP) capabilities provide switch-switch and host-switch authentication to overcome security challenges for enterprise-wide fabrics.

Incorrect:

Not B: FCoE (Fibre Channel over Ethernet) is a storage protocol that enable Fibre Channel communications to run directly over Ethernet. FCoE makes it possible to move Fibre Channel traffic across existing high-speed Ethernet

infrastructure and converges storage and IP protocols onto a single cable transport and interface.

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