

HP0-J67^{Q&As}

Architecting Multi-site HP Storage Solutions

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QUESTION 1

Your customer is migrating to VMware vSphere 5. Your solution includes HP 3PAR StoreServ Storage with licenses for Remote Copy and sub-LUN tiering. The customer is interested in implementing VMware Storage I/O Control and asks if there are any interoperability concerns with your solution.

How does the inclusion of VMware Storage I/O Control impact your solution?

- A. VMware Storage I/O Control integrates into the proposed solution with no changes.
- B. HP 3PAR Application Software Suite for VMware must be added to the solution
- C. HP 3PAR Adaptive Optimization cannot be used in the solution.
- D. VMware Adaptive Queue Depth Throttling must be enabled.

Correct Answer: A

QUESTION 2

An existing environment contains a two-node HP 3PAR StoreServ 10400 storage array with approximately 60 TB of capacity spread across three tiers. The customer plans to replicate their business critical data to a remote DR site. The customer cannot afford to lose any of this data. You propose that the customer install an HP 3PAR StoreServ 7400 Storage system at the DR site.

The CFO does not want the remote equipment to sit idle, so the customer will use that equipment for data mining. The results must be replicated back to the main site. The customer also requires that the replication of the data mining results have zero impact on the data mining performance.

Which HP 3PAR technology enables the proposed solution to meet the customer requirements?

- A. Peer Motion
- B. Mixed Mode Replication
- C. Online Import
- D. Adaptive Optimization

Correct Answer: B

<http://bizsupport2.austin.hp.com/bc/docs/support/SupportManual/c03618143/c03618143.pdf> p129

QUESTION 3

Your customer has two data centers in a campus. The environment consists of: HP BladeSystem c7000 enclosures with HP Virtual Connect Flex-10 modules

HP ProLiant BL460c Server Blades

HP Storevirtual 4430

HP 5900 Switches

The HP Virtual Connect Flex-10 modules connect to the switches in three 10Gb Shared Uplink sets. The storage connects to the switches via 10Gb. The customer wants to migrate their network to a flat architecture and simplify managements.

What should you implement to meet the customer requirements?

- A. HP Intelligent Resilient Framework (IRF)
- B. HP Virtual Connect Enterprise Manager (VCEM)
- C. Spanning Tree Protocol (STP)
- D. HP Intelligent Management Center (IMO)

Correct Answer: A

<http://allhpnetworking.blogspot.com/2010/10/hp-networking-series-example.html>

<http://h17007.www1.hp.com/docs/mark/4AA3-4496ENW.pdf>

QUESTION 4

A retail customer has primary data centers, distribution centers, and retail stores. The retail locations are smaller sites that have less than 2 TB of data that need to be highly available. Each location is consolidating between six and twelve physical servers into a virtual cluster running on two HP ProLiant DL380 Gen8 servers.

The customer needs a low-cost storage solution that they can use at each retail location and can scale using similar technology for the distribution centers. The solution also needs to integrate with VMware and provide future replication with no additional cost.

Which HP Storage solution should you recommend?

- A. HP EVA
- B. HP 3PAR StoreServ
- C. HP StoreVirtual
- D. HP MSA

Correct Answer: D

QUESTION 5

You present an HP 3PAR StoreServ concept to a customer. The customer wants to know how your design solves their technical and business needs and reduces their TCO .Map the HP 3PAR StoreServ solution component to the correct TCO element.

Select and Place:

You present an HP 3PAR StoreServ concept to a customer. The customer wants to know how your design solves their technical and business needs and reduces their TCO .Map the HP 3PAR StoreServ solution component to the correct TCO element.

Cost of unplanned downtime	Cage Availability
Power and cooling costs	Autonomic Groups
Improved service time	Thin Technologies
Administration costs	Adaptive Optimization

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Correct Answer:

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QUESTION 6

Refer to the scenario.

A university provides liberal arts training to 2,500 students in 68 classrooms and provides a growing suite of IT services that encompass dorm rooms and classrooms. All 2,500 students are provisioned an HP EliteBook Tablet PC to access these services. Students use these tablet PCs for taking notes, handling documents, communicating with each other and with instructors, and participating in distance-education classes. Additionally, by using their tablet PCs as thin clients,

science and engineering students leverage virtual desktop infrastructure (VDI) and HP Remote Graphics Software to access applications that run on high-powered HP blade servers. All 68 classrooms are multi-media equipped, enabling instructors to record lectures for the college's closed circuit TV system.

The university has implemented enterprise content management (ECM) applications, including Microsoft SharePoint for document imaging and workflow for staff and faculty, as well as for external accrediting bodies.

Additionally, a recent initiative to implement voice-over-IP telephone communications on campus has started.

The compute environment is based on VMware vSphere using HP BL460c and BL680c G7 server blades in c7000 enclosures within two data centers. The university needs to develop computing solutions to address the following problems

and current initiatives:

- The current backup-to-tape environment creates downtime for backups of 6 to 12 hours.
- Each incoming class of 600 floods the registration system within the first hours after it opens. The server and network gridlock caused by this high workload prolongs the registration process by as much as one hour per student.

- Proof of concept is necessary for distance education involving large volumes of video and major bandwidth requirements.
- Top tier data must be replicated between two data centers over a 10 Gbps network Disaster recovery has a recovery time objective (RTO) of 120 minutes and network utilization should be minimized.
- Seven TB of first tier data needs to be migrated from the current fibre channel storage solution to nearline storage.
- Second tier data requires deployment of a separate storage solution. The university's top four IT improvements goals are as follows:
 - Provide a robust replication capability between data centers.
 - Reduce server downtime with faster backups.
 - Retain more backup data in smaller disk space.
- Increase efficiency, reliability, and ease of system administration. Moreover the college's top three business benefit goals are as follows:
 - Reduce student registration time.
 - Increase number of servers while minimizing the need for additional staff to support them.
-

Utilize IT resources and staff as efficiently as possible. The company has asked that you create multiple solution proposals and prioritize one when you return for a presentation.

In order to meet the technical requirements and solve some of the current problems that the customer is facing you propose a 4-node HP 3PAR StoreServ Storage array with an additional SSD tier. Which HP best practices should you follow?

(Select two.)

A.

Availability = Cage-level

B.

Availability = Magazine-level

C.

SSD CPG set size of 3+1

D.

SSD CPG set size of 2+1

E.

Growth increment = 4GB

Correct Answer: AC

Best practice: SSD CPGs should be of the RAID 5 type with a "Set size" of 3+1 by default. This will bring the best performance/capacity ratio. If maximum performance is required, use RAID 1.

Best practice: The growth increment should be set to the minimum value, which is 8 GB per node pair. On 2-node systems, set the value to 8 GB, on 4-node systems to 16 GB, on 6-node systems to 24 GB, and on 8-node systems to 32 GB.

In order to set the CPG growth increment to a lower value than the default, the "Show advanced option" box must be checked. Best practice: Availability should be left to "Cage-level" availability (the default option) if the system's configuration

allows for it. If not, it should be set to "Magazine-level" availability. This can be changed using the "Advanced options" checkbox of the StoreServ Management Console.

QUESTION 7

Your customer wants to upgrade their existing HP 3PAR S-Class array. A competitor has suggested a non-HP storage array. Your conversation with the customer focuses on the notable architectural enhancements within the new generation of HP 3PAR StoreServ 7400 platforms.

Which enhancements should you focus on? (Select two.)

- A. The tightly coupled cache-coherent clustering is built into the Gen4 ASIC.
- B. The 64-bit OS enables scalable headroom for performance and capacity.
- C. Logical Disk regions have increased from 256 MB and are now 1 GB in size.
- D. Write cache mirroring is now implemented N+N across the 7x00 controllers.
- E. New HP StoreServ 7x00 now supports 16Gb Fibre Channel speeds.

Correct Answer: BD

QUESTION 8

A NetBackup customer needs to improve the RTO after a disaster is declared at the primary data center. They have failed several disaster recovery audits because of extended recovery times. You recommend that they replace tape library with an HP StoreOnce Backup System that replicates the primary data center backups to the remote site.

Which device interface provides the lowest RTO?

- A. HP StoreOnce NAS
- B. HP StoreOnce Catalyst
- C. HP StoreOnce VTL iSCSI
- D. HP StoreOnce VTL FC

Correct Answer: D

QUESTION 9

A client with high volume data requirements wants a new storage environment. The business can allow for an RTO of 45 minutes and an RPO of 15 minutes. The client has a one-year data retention period during which data can be called upon at any given time. You propose four HP 3PAR StoreServ 7400 Storage Systems.

Which HP 3PAR software suites should you recommend? (Select two.)

- A. Replication
- B. Data Optimization
- C. Thin
- D. System Tuner
- E. Security

Correct Answer: AB

QUESTION 10

Refer to the scenario.

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-Reduce student registration time.

-Increase number of servers while minimizing the need for additional staff to support them.

-Utilize IT resources and staff as efficiently as possible.

The company has asked that you create multiple solution proposals and prioritize one when you return for a presentation.

Which HP 3PAR Storage technology will allow the customer to automatically migrate data between different disk types to meet one of the stated business goals?

A. Autonomic Rebalance

B. Dynamic Optimization

C. Peer Motion

D. Adaptive Optimization

Correct Answer: D

QUESTION 11

When sizing a solution involving deduplication, how does the rate of changed blocks between backups affect dedup ratio?

A. The lowest the block change rate the highest the deduplication ratio

B. No changed blocks between backups result in a dedup ration of 0%

C. Dedup ration is only affected by the back up software

D. The rate of changed blocks does not affect deduplication efficiency.

Correct Answer: A

QUESTION 12

A customer's network environment contains a third-party storage system and an HP BladeSystem with ProLiant server blades. The customer plans to migrate data to an HP StoreVirtual Storage System.

The storage system must contain at least 20 TB of raw capacity.

Which HP StoreVirtual Storage System should the customer deploy?

- A. HP StoreVirtual 4630
- B. HP StoreVirtual 4530
- C. HP StoreVirtual 4330
- D. HP StoreVirtual 4130

Correct Answer: A

QUESTION 13

A customer asks you to architect a new SAN fabric infrastructure comprised of redundant fabrics for a test/dev server environment. They need to provide selective connectivity for array-based snapshots from disk arrays hosted on the existing Cisco MDS 9506 Multilayer director-based production fabric, to hosts on the test/ dev fabric. A customer requirement is to utilize a different vendor for the test/dev fabric. Which SAN technology enables the test/dev SAN fabric to maintain interoperability between the two fabrics and meet the stated requirements?

- A. HP B-Series with Transparent Router (TR)
- B. HP H-Series with Transparent Router (TR)
- C. HP B Series with Inter-VSAN Routing (iVR)
- D. HP H-Series with Inter-Fabric Routing (IFR)

Correct Answer: B

QUESTION 14

You are designing an HP SPAR StoreServ solution to host a customer Microsoft Hyper-V 2012 environment load on the transport network?

- A. T10 Unmap (T10U)
- B. Offload Data Transfer (ODX)
- C. vStorage APIs for Array Integration (VAAI)
- D. T10 Data Integrity Field (DIF)

Correct Answer: B

QUESTION 15

Refer to the exhibit.

Fabric "MyComponentGroup" Details						
MyComponentGroup: Switches						
Name	IP Address	Description	VVNN	Domain	FV	d
fcswfrz2	172.17.225.197	Brocade BROC ADE 8GB SAN SWITCH FOR HP BLADESYSTEM C-CLASS	10:00:00:05:1e:bf:53:93	22	v6.2.1 b	24/7 (29.17%)
fcsw3rz2	172.17.225.198	Brocade BROC ADE 8GB SAN SWITCH FOR HP BLADESYSTEM C CLASS	10:00:00:05:1e:c3:e4:a1	1	v6.2.1 b	24/7 (29.17%)
fcsw7rz1	172.17.225.199	Brocade BROC ADE 8GB SAN SWITCH FOR HP BLADESYSTEM C-CLASS	10:00:00:05:1e:be:f6:74	12	v6.2.1 b	24/8 (33.33%)
fcsw1rz1	172.17.225.200	Brocade BROC ADE 8GB SAN SWITCH FOR HP BLADESYSTEM C-CLASS	10:00:00:05:1e:bf:50:25	11	v6.2.1 b	24/8 (33.33%)
MyComponentGroup: Storage Devices						
Name	VVNN	Manufacturer	Model	Description		
EVA6400_02:5e:13:79	50:01:43:80:02:5e:13:79	Hewlett Packard	EVA6400	HP StorageWorks HSV400 - EVA6400_R22 - CR18CB		
EVA6400_04:c5:e7:90	50:01:43:80:04:c5:e7:90	Hewlett Packard	EVA6400	HP StorageWorks HSV400 - EVA6400_R21 - CR18CB		
MyComponentGroup: Hosts						
HostName	HostIP	HostID	OSname	OSversion		
MyComponentGroup: Virtual Hosts						
HostName	HostIP	HostID	OSname	OSversion		

MyComponentGroup: HBAs					
VVNN	VVNN	Manufacturer	Model	Driver	Firmware
50:01:43:80:04:c2:00:de	50:01:43:80:04:c2:00:df	Hewlett Packard	QMH2462	DVR:v9.1.8 .28	FW:v5.03.0 6
50:06:0b:00:00:66:0e:c2	50:06:0b:00:00:66:0e:c3	Hewlett Packard	HPAE311A	DVR:v9.1.9 .25	FW:v5.04.0 2
50:01:43:80:04:c2:00:dc	50:01:43:80:04:c2:00:dd	Hewlett Packard	QMH2462	DVR:v9.1.8 .28	FW:v5.03.0 6
50:06:0b:00:00:66:15:a6	50:06:0b:00:00:66:15:a7	Hewlett Packard	HPAE311A	DVR:v9.1.9 .25	FW:v5.04.0 2

You are preparing an installation plan with one of your storage engineers.

The customer wants to extend their SAN fabric from four switches to eight switches.

What must be taken into account when integrating the new solution design?

- A. EVA6400 will achieve more host port throughput with higher switch count in the fabric.
- B. Connected hosts will fail fabric login.
- C. BladeSystem SAN switches cannot be extended with external switches by default.
- D. Merging of fabrics could fail if no further configuration or planning is performed.

Correct Answer: D