

# HP0-J67<sup>Q&As</sup>

Architecting Multi-site HP Storage Solutions

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**QUESTION 1**

A leading automotive technology company wants to increase the performance and capacity of the storage infrastructure that supports the design and manufacture of its line of Formula 1 racing cars. The company is also interested in safeguarding its mission-critical data and eliminating the threat of business disruption. Due to the massive engineering and technical effort required to create a new race car design and to enable regular delivery of upgraded parts to the race track while maintaining a competitive edge, it is necessary to have advanced applications running on a high-performance IT infrastructure. The company operates out of two data centers. The centers support a Plant Lifecycle Management database, an Enterprise Resource Planning (ERP) system, and various trackside systems to set up the race car and aid race strategy. In addition, the centers run applications for Computer-Aided Design (CAD) Computer-Aided Manufacturing (CAM), and Computational Fluid Dynamics (CFD) packages. The company as deployed Oracle and SQL databases, VMware virtual machines, email, and all other applications on an HP 6400 Enterprise virtual Array (EVA). The EVAs automatically replicate between the two data centers to guard against failure. The EVAs are aging, applications are more sophisticated, data volumes have grown exponentially, and bottlenecks in the storage system are now having a significant effect on the performance of the simulation and analysis tools that are vital to the company's competitive position. The data storage problem has reached a point where the company is forced to store primary data at the secondary site causing the loss of their disaster recovery capability. The company's top five IT Improvement goal's are:

- Reduce complaints about storage system availability.
- increase support for sophisticated design and manufacturing applications.
- Provide a robust replication capability between data centers.
- increase storage utilization while deploying additional capacity.
- Simplify operations during peak workloads.

Moreover, the company's top three business benefit goals are:

- Ensure rapid data retrieval to aid in quick decision making.
- Protect mission-critical data and ensure business continuity.
- Recover costs from existing infrastructure, thus providing increased IT funds for additional projects. You are proposing HP 3PAR StoreServ 7400s for the two data centers, and the HP 6400 Enterprise Virtual

Arrays must be retired in three months.

Which feature of your proposal allows data migration to the new storage array?

- A. HP Remote Copy
- B. HP Peer Motion
- C. HP Online Import
- D. HP MPX200 Router

Correct Answer: C

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**QUESTION 2**

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.

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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.

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### QUESTION 3

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

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#### QUESTION 4

You are performing a demo of an HP StoreOnce 2620i Backup System solution in combination with HP Data Protector. All best practice guidelines for the VTL and Data Protector have been adhered to. However, you receive the following

error when formatting a cartridge in a previously-created VTL.

[Normal] From: MMA@demo.local "Drive\_Demo" Time: 4/23/2013 10:26:09 PM Tape0:0:0:0C

Initializing new medium: "[4E94F289] 4E94F289"

[Major] From: MMA@demo.local "Drive\_Demo" Time: 4/23/2013 10:26:10 PM [90:51] Tape0:0:0:0C Cannot write to device ([87] Wrong parameter.)

[Major] From: MMA@demo.local "Drive\_Demo" Time: 4/23/2013 10:26:10 PM Initialization of medium failed. [Normal] From MMA@demo.local "Drive\_Demo" Time: 4/23/2013 10:26:14 PM Ejecting medium Tape0:0:0:0C".

What must you do to perform a successful demo?

- A. Add an iSNS-Server in the media Server iSCSI configuration, and restart the iSCSI service.
- B. Disable "Automatically discover changed SCSI address" for the VTL drives, and rescan the library.
- C. Disable "SCSI Reserve /Release (drive)" for all of the drives and robotics in the environment and rescan the library.
- D. Change the maximum transfer length of the iSCSI initiator in regedit, and restart the media server.

Correct Answer: C

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#### QUESTION 5

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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.

You are proposing two HP StoreVirtual 4530 arrays for the secondary storage. Which feature of HP LeftHand OS meets the IT improvement goals? (Select two.)

- A. Network RAID
- B. Peer Motion
- C. Port Persistence
- D. Volume Resynchronization
- E. Thin Provisioning

Correct Answer: BE

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