



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

Architecting Multi-site HP Storage Solutions

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**QUESTION 1**

A large regional telecommunications company specializing in mobile services has experienced rapid growth.

They currently have 149 million subscribers in 11 markets, including 4 million subscribers locally. The year-on-year data growth between 2003 and 2012 was approximately 15%. The projected growth for 2013 and the next several years is 30% annually.

The proposed mission critical solution needs to work with the existing application modules and deliver a minimum data transfer rate of 6.5 TB per hour and a capacity of 120 TB. Financially, the solution has to offer low Total Cost of Ownership (TCO) over the next 5 years, and solution capacity has to accommodate the performance and growth model.

Which mission critical backup solution and support level should you propose? (Select two.)

- A. HP StoreOnce 4430 with two upgrade kits
- B. HP StoreOnce B6200 with three 48TB expansion kits
- C. HP 6-hour call-to-repair support
- D. HP same-day hardware support
- E. HP 24/7 4-hour response support

Correct Answer: BE

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**QUESTION 2**

A customer plans to migrate data from an HP EVA4400 to an HP 3PAR StoreServ 7000. The customer has VMware vSphere 5 that uses the HP EVA4400.

How can the customer migrate the VMware storage without disruption?

- A. By configuring load-balancing between storage systems
- B. By verifying the EVA is running a supported firmware
- C. By upgrading the VMware vSphere version
- D. By configuring multipathing between storage systems

Correct Answer: D

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**QUESTION 3**

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.

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#### QUESTION 4

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

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**QUESTION 5**

Refer to the scenario.

During your presentation, the customer suggests using Thin Provisioning on the existing EVA to alleviate the capacity issue. What prevents HP EVA Thin Provisioning from being a valid solution?

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 has 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 goals 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.

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

- A. A minimum of 20% free space is required to convert the virtual disks.
- B. DR groups must be suspended prior to conversion.
- C. Thin Provisioning is only available on HP EVA P65xx.
- D. DR groups cannot contain Thin Provisioned virtual disks.

Correct Answer: A



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