



HP0-J67^{Q&As}

Architecting Multi-site HP Storage Solutions

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QUESTION 1

A customer is building a new data center. They want to implement a free cooling strategy in order to reduce their Computer Room Air Handling (CRAH) costs, while increasing their rack density.

Which free cooling methods meet the customer requirements? (Select two.)

- A. Water-side economization
- B. Air-side economization
- C. Cold-aisle containment
- D. Closed-loop containment
- E. Hot-aisle containment

Correct Answer: AB

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<http://h20000.www2.hp.com/bc/docs/support/SupportManual/c02507744/c02507744.pdf> cooling strategies"

QUESTION 2

Your client wants to replace their aging storage and server infrastructures with the latest technology available to run their online transaction processing and Oracle data warehouse applications. The client data warehouse holds a minimum of

2 years of trading and market data for reporting, trending, and regulatory functions.

The current storage system is an HP 3PAR F400 that has been operational for almost 4 years without any downtime. The client needs 150 TB of raw capacity.

Which proposed solution follows the configuration best practices and future proofing?

- A. HP 3PAR StoreServ 7400-4 with SSD and NL drives
- B. HP 3PAR StoreServ 7200 with 15k SAS and NL drives
- C. HP 3PAR StoreServ 7200 with SSD and NL drives
- D. HP 3PAR StoreServ 7400-4 with 15k SAS and NL drives

Correct Answer: A

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.

QUESTION 4

A customer running an enterprise database has heavy bandwidth traffic on their WAN link that they have isolated to HP 3PAR StoreServ Remote Copy replication between their primary and DR site. They are not concerned with the RTO but would like to improve the RPO.

Which recommendation should you make to decrease their WAN link traffic?

A. Use synchronous mode replication for the entire database.

B. Create more Remote Copy volume groups.

C. Replicate just the database logs.



D. Use synchronous long distance mode for the entire database.

Correct Answer: C

QUESTION 5

Your customer has made a strategic decision to implement a DR solution that will incorporate an active/active bi-directional replication configuration. The two sites in Q will have live applications running at both locations, and both sites will have a fluid server estate with new systems coming online on a regular basis. Additionally, there is an aggressive server replacement schedule keeping in step with the HP server generation roadmap. All of the customer servers will utilize Boot from SAN. The sites are 55 km apart with a single 1G Ethernet link that is at 50% utilization. There is no SLA. The customer has already purchased one pair of MPX200 FCIP gateways per site.

What is a potential effect of this configuration? (Select two.)

- A. The link speed will need to be upgraded to 10Gb
- B. WAN instability will cause fabric instability.
- C. Multiple 1Gb links will form a single 10Gb link.
- D. LSANs will maintain fabric stability.
- E. The fabric will be extended across the two sites.

Correct Answer: BE

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