

HP0-J67^{Q&As}

Architecting Multi-site HP Storage Solutions

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QUESTION 1

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.

Which business and IT objective can be addressed by proposing a server automation initiative?

- A. Increased efficiency, reliability, and ease of system administration
- B. Reduced server downtime and faster backup
- C. Robust replication capability between data centers
- D. Reduced the need for Proof of Concepts

Correct Answer: A

QUESTION 2

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 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 an HP StoreOnce Backup System solution.

Which tuning should be planned to performance and meet the customer business goals?

- A. Set up appendable pools.
- B. Configure multistreaming.
- C. .Enable multiplexing
- D. Disable housekeeping.

Correct Answer: B

QUESTION 3

Which HP 3PAR StoreServ features improves storage array resiliency?

- A. Persistence Ports
- B. Virtual Copy
- C. Virtual Domains
- D. Virtual Lock

Correct Answer: A

QUESTION 4

Refer to the scenario.

A large publicly-traded motion picture exhibitor that is a leader in digital and 3D cinema deployments operates 233 theaters and more than 2,200 screens in small to mid-sized communities in 35 states around the United States. They rely on

MS Exchange Server 2010 for email. MS SQL Server 2010 for analyzing data about movies and theater-goers, and MS Excel 2010 for crunching numbers.

The company runs nightly incremental backups and a full weekly backup that consists of close to 7 TB of data which takes up 72 hours to complete. The quarterly backups add an additional 7 TB of data. Tapes are inventoried and transported

from the main data center to the disaster recovery site 150 miles away. The process of transporting tape cartridges to and from the Disaster Recovery site requires hours of daily work.

The company currently relies on an aging robotic tape library and a process that takes the nightly backup tapes offsite every morning. Additionally, the company keeps an inventory, and if a restore is necessary they have to retrieve the tapes

from the DR site and transport them to the main data center site They have a 7 year data retention plan, and the tapes are expensive and not always reliable. Given the company's current system, if a full weekly backup fails over a weekend,

the re-run could take up to 10 hours, even if just one job failed.

The company has deployed a virtualized server infrastructure which runs VMware vSphere 5 on HP BladeSystem c7000

enclosures and BL460c servers interconnected with HP Virtual Connect Flex-10 10Gb Ethernet Modules as well as several HP ProLiant DL380 servers. The company's top four IT improvements goals are as follows:

- replacing the aging robotic tape library
- enabling replication of backed up data from the main data center to the disaster recovery site (150 miles)
- retaining more backup data in smaller disk space
- increasing efficiency reliability, and ease of system administration

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

- increased confidence in disaster recovery
- minimal disruption by backups during regular business hours
- improved management of external audits

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

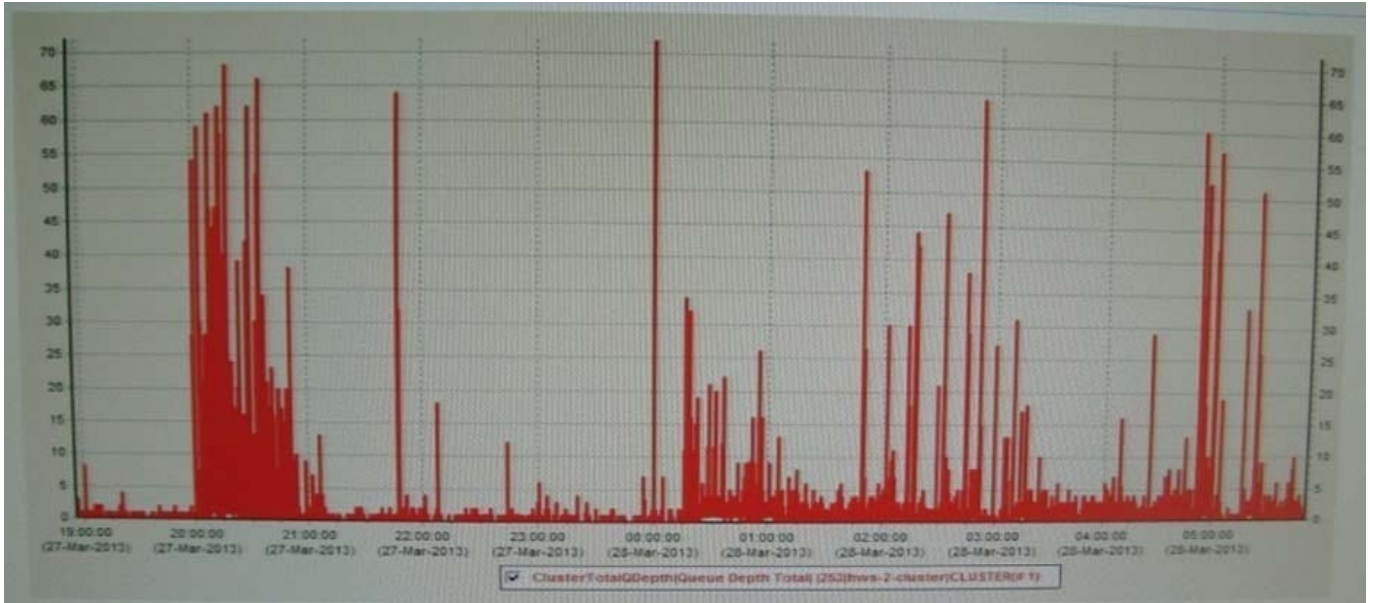
During a design workshop, you become aware that the customer is adding a number of application servers into the virtualized environment to be included in the backup environment. What is the minimum number of stores you need to create in order to achieve optimal deduplication performance?

- A. 1
- B. 3
- C. 4
- D. 8

Correct Answer: B

QUESTION 5

Refer to the exhibit.



A customer complains about poor application performance on their existing two-node HP P4500 Virtualization SAN and provides you the chart in the exhibit. Which conclusion can you draw from this graph?

- A. Queue depth of the cluster exceeds the recommended limit, and total disk I/O should be checked.
- B. Queue depth of the storage environment is acceptable, and performance issues should be checked on the application level.
- C. Queue depth of the storage cluster is in the optimal range, and throughput should be checked.
- D. Queue depth is acceptable, and total latency peaks are too high during business hours.

Correct Answer: B

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