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Architecting Multi-site HP Storage Solutions

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**QUESTION 1**

Refer to the scenario.

Which feature of the HP 3PAR StoreServ Storage system used in the solution allows the customer to meet technical goals while reducing capital expenses?

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. HP 3PAR Gen3 ASIC per interface car
- B. large capacity SATA NL drives
- C. cache extension via SSD drives
- D. RCIP ports on each node

Correct Answer: C

**QUESTION 2**

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 3

While discussing a remote replication solution consisting of two HP 3PAR StoreServ arrays, the customer asks you about performance penalties when implementing synchronous replication to a second HP 3PAR StoreServ array. How should you respond?

- A. Synchronous replication affects write performance on the source array.
- B. Synchronous replication affects both read and write performance on the source array.
- C. Synchronous replication affects read performance on the source array.
- D. Synchronous remote replication does not affect performance on the source array.

Correct Answer: A



How does synchronous periodic mode work in operation? In synchronous mode, a host-initiated write (1) is performed first on the primary storage array (2). The write request is then concurrently forwarded (3) to the secondary or backup storage array (4) before acknowledging the forwarded write back to the primary array (5). Finally the primary array acknowledges (6) the host server that the data write has been completed. Additional steps, or latency, are required when synchronous mode is used because on both the primary and secondary storage arrays, data is written to the caches of two nodes as well as the time it takes (round trip) to forward the write request to the secondary array. The data written to cache at both storage arrays is additional redundancy put in place in case one node fails before the write can be copied to physical disk at either site. The host server write is acknowledged after the active cache update completes and the backup acknowledgement is received.

QUESTION 4

A customer has multiple eight-node SQL clusters that are currently connected to three HP EVA 8400 Storage systems. The customer has I/O latency problems on the servers and sees high queue depths on the EVA ports. What should you recommend to solve this problem?

- A. HP EVA P6000, which has higher queue depths
- B. HP StoreVirtual multi-node with Fibre Channel support
- C. HP Storevirtual with iSCSI to eliminate queue depths
- D. HP 3PAR StoreServ 10000 with 32 host ports

Correct Answer: D

QUESTION 5

A customer has outgrown the internal tape drive on their media server. You recommend eliminating tape and leveraging an HP StoreOnce solution that enables replication if the customer media server uses 10GbE network connections, what is the smallest HP StoreOnce solution you can recommend?

- A. HP StoreOnce 4210iSCSI Backup System
- B. HP StoreOnce 4220 Backup System
- C. HP StoreOnce 4420 Backup System
- D. HP StoreOnce 4210fc Backup System

Correct Answer: C

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