HP0-J67 Q&As

Architecting Multi-site HP Storage Solutions

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QUESTION 1

You are designing a storage solution for a customer who has three data centers on a campus and a 10Gb/s network infrastructure. The business requirements state that a complete site failure must be tolerated. You propose six HP Storevirtual 4530 nodes split evenly between the sites.

Which Network RAID level should you recommend to the customer to meet their business availability needs?

A. Network RAID 5

B. Network RAID 10+1

C. Network RAID 10+2

D. Network RAID 6

Correct Answer: B

D - Also possible, but slow write performance, see "LeftHand Stoarge User Guide" p 145.

Network RAID level	Description	Protection level
0	One copy of the data with no replication between nodes in a storage cluster	Network RAID 0 is not considered part of an HA solution
10	Two copies of data replicated between nodes in a storage cluster	Protection against any node going offline; Protection from site failure;* Protection against any three drives failing in the cluster; half of all HP StoreVirtual 4000 systems can go offline and yet the data will remain online
10+1	Three copies of data replicated between nodes	Protection against any two nodes going offline; Protection from site failure;* Protection against any five drives failing in the cluster
10+2	Four copies of data replicated between nodes	Protection against any three nodes going offline; Protection from site failure;* Protection against any seven drives failing in the cluster
5	Single parity distributed across all nodes in the cluster	Protection against any node going offline; Protection against any three drives failing in the cluster
6	Dual parity distributed across all nodes in the cluster	Protection against any two nodes going offline; Protection against any five drives failing in the cluster

* When configured as a multisite SAN

QUESTION 2

Your customer wants to replicate backup data from branch office to a primary data center where an HP StoreOnce backup system using HP Storeonce catalyst is located. The main backup application is HP Data Protector 7.01.The file and application servers have Windows 2003, Windows 2008 and SUSE LINUX 9 and 10 installed. The file and application servers are a mixture of 32 and 64 bit Windows and Linux operating systems. As a long term strategy the

customer wants to integrate all services to the primary data center. No additional hardware can be purchased for the branch office and complexity should be minimized.

Which deduplication type is optimal for the customer?

A. Target side

B. Application side

C. Source side

D. Server side

Correct Answer: D

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

You are architecting an HP StoreOnce Backup System solution for a customer with a primary and a secondary data center on the same campus.

Backed up fileserver data should be replicated across data centers by VTL replication after a backup is completed.

Customer gives you these sizing requirements:

Backup of one fileserver with 6 partitions, 150GB each

Daily full backup

Daily change rate by less 1% of the original data

Backup application is Data Protector 7.01

Retention time of 120 days should be achieved

Uni-directional replication between sites

Which HP StoreOnce Backup System is most cost effective and meets customer requirements?

A. HP StoreOnce 2620 Backup System

B. HP StoreOnce 4210 Backup System

C. HP StoreOnce 4220 Backup System

D. HP StoreOnce 4420 Backup System

Correct Answer: A

Explanation: 6x150=0,9TB - first full bkp 1%x0, 9*120 = 0,1TB total 1TB The smallest model is SO2620i - 2,5TB usable

QUESTION 5

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 goa\\'s are:

-Reduce compiaints about storage system availabiiity.

-increase support for sophisticated design and manufacturing applications.

-Provide a robust repication capability between data centers.

-increase storage utilzation while depioying additional capacity.

-Simplify operatons 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 StoreSe|v 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