HP0-J67 Q&As

Architecting Multi-site HP Storage Solutions

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QUESTION 1

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 goo\\'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.

Which storage technologies should you present to help meet business benefit goals? (Select two)

A. Storage tiring technology

B. Storage federation technology

C. Snapshot technology

D. Thin technology

E. Remote replication technology

Correct Answer: AB

B - seems to bee more correct than E.

See http://www8.hp.com/us/en/products/data-storage/data-storage-technology.html?

compURI=1225859#.UlJwvjdn8W0

QUESTION 2

A customer has an environment that spans two data centers in a campus environment. The primary storage is HP 3PAR 10400, and data is replicated between sites with an RPO of zero.

Recent bad weather has caused flooding near the customer site and the customer is questioning whether they have adequate protection. You suggest creating a data center at a remote location and actively replicating the data to it. The

customer is concerned that the remote link to the third site will have insufficient bandwidth and will create a local replication bottleneck.

Which statement addresses the customer concerns?

A. Synchronous Long Distance will schedule data replication outside high latency periods autonomic array

B. Data is transmitted in a continuous stream with write order being handled by the target array.

C. Remote Copy uses multiple connections over the same link from multiple volumes.

D. Over provisioning of the remote link will ensure enough bandwidth is always available for replication.

Correct Answer: D

QUESTION 3

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 4

You have designed a new SAN fabric for a customer. The fabric consists of Cisco MDS 8/24c Fabric Switches for HP BladeSystem c-Class. Which mode allows automatic mapping of physical WWNs to virtual WWNs using NAT?

A. Access Gateway

B. FlexFabric

C. NPV

D. Virtual Domains

Correct Answer: C

QUESTION 5

After talking with a sporting equipment manufacturer, you decide to propose a two-node HP 3PAR StoreServ 7400.

The manufacturer will use the following criteria to select the winning proposal: Approximately 4TB of performance data and 24TB of archive data

Most availability and performance for the price

Simple and easy to manage

Open to recommendations that provide significant cost savings without other impacts

Which configuration should you present, based on HP best practices?

A. 4 add on SFF Shelves with 26 x 300GB 15k and 1 LFF Shelf with 24 x 2TB NL

B. 3 add on LFF Shelves with 8 x 100GB SSD and 28 x 2TB NL

C. 4 add on SFF Shelves with 52 x 900GB 10k

D. 4 add on SFF Shelves with 8 x 100GB SSD and 98 x 450GB 10k

Correct Answer: A

QUESTION 6

In addition to being able to wide-stripe data over many physical disks, what is another unique feature of an HP 3PAR StoreServ compared to competitor block- based arrays?

A. Custom ASIC-enabled Thin Provisioning

B. Asynchronous remote replication

C. Controller functions based on a software implementation of RAID

D. Block storage functions facilitated by software emulation

Correct Answer: A

Hardware-assisted HP 3PAR Thin Technologies enable customers to reduce capacity requirements by 50 percent." in HP 3PAR Battlecards

QUESTION 7

You are working with a customer to design and install a Fibre Channel storage solution based on HP 3PAR StoreServ Storage.

The customer wants data migration to be part of the solution. The IT environment includes VMware vSphere 5 and Windows 2008 R2 servers.

The customer intends to utilize the existing non-HP array for Tier 2 storage on the Windows 2008 R2 servers.

The existing array is also being used as the target of the customer backups. and that data will not be migrated.

The customer wants to capitalize on their previous purchases and spend as little as possible for data migration. What should you recommend the customer use to migrate the data? (Select two)

A. HP 3PAR Remote Copy

B. HP MPX200 Multifunction Router

C. HP 3PAR Online Import

D. HP 1606 Extension SAN Switch

E. VMware Storage VMotion

Correct Answer: BE

QUESTION 8

Which business requirement is addressed with an HP StoreVirtual family with Peer Motion?

A. Increases data redundancy

B. Allows for higher availability and SLAs

C. Reduces the RPO

D. Allows data migration between multi-site clusters

Correct Answer: D

QUESTION 9

Which HP 3PAR StoreServ feature improves storage array resiliency?

A. Persistence Ports

B. Virtual Lock

C. Virtual Copy

D. Virtual Domains

Correct Answer: A

"To provide greater resiliency and to avoid dependency on host multi-pathing software, HP 3PAR StoreServ has introduced a new feature called Persistent Ports."

-in HP 3PAR High Availability

QUESTION 10

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 HP 3PAR Storage technology will allow the customer to automatically migrate data between different disk types to meet one of the stated business goals?

A. Autonomic Rebalance

B. Dynamic Optimization

C. Peer Motion

D. Adaptive Optimization

Correct Answer: D

QUESTION 11

A customer uses HP 3PAK System Reporter and Adaptive Optimization with an HP 3PAR StoreServ 10000 Storage System that runs HP 3PAR OS 3.1.1. The customer is planning to upgrade the storage system to HP 3PAR OS 3.1.2. The customer needs to use System Reporter and Adaptive Optimization on the storage system after the upgrade.

Which complications will the customer encounter after performing the upgrade? (Select two)

A. System Reporter backups must be reconfigured

B. System Reporter data does not migrate

C. Adaptive Optimization is disabled

D. System Reporter databases become corrupt

E. Adaptive Optimization must be reconfigured.

Correct Answer: BE

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-

 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 13

You need to ensure data integrity on physical disks within the proposed HP 3PAR StoreServ Storage array.

Which HP 3PAR StoreServ Storage component calculates the value of the disk T10 Data Integrity Feature (DIF)?

A. HP Service Processor

B. HP InServ Controllers CPUs

C. Controller Cache Algorithm

D. HP 3PAR Gen4 ASIC

Correct Answer: D

Bandwidth and communication optimization

As previously mentioned, each V800 or V400 Controller Node contains two high-performance, proprietary HP 3PAR Gen4 ASICs optimized for data movement between three I/O buses, a three memory-bank Data Cache, and seven high-speed links to the other Controller Nodes over the full-mesh backplane. These ASICs perform parity calculations (for RAID 5 and RAID MP/Fast RAID 6) on the Data Cache, and calculates the CRC Logical Block Guard used by the T10 Data Integrity Feature (DIF) to validate data stored on drives. An HP 3PAR V800 Storage System with 8 Controller Nodes has: 16 ASICs, totaling 112 GB/s of peak interconnect bandwidth and 24 I/O buses totaling 96 GB/s of peak I/O bandwidth.

In "The HP 3PAR Architecture"

QUESTION 14

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 15

A client wants to deploy a new HP 3PAR 7400 storage environment. They want to utilize additional features of the array to optimize their backup and data restore capabilities. Which HP 3PAR software suite should you recommend?

A. Replication

B. Thin

C. System Tuner

D. Security

Correct Answer: B

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