HP0-J67 Q&As

Architecting Multi-site HP Storage Solutions

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QUESTION 1

Your customer is migrating to VMware vSphere 5. Your solution includes HP 3PAR StoreServ Storage with licenses for Remote Copy and sub-LUN tiering. The customer is interested in implementing VMware Storage I/O Control and asks if there are any interoperability concerns with your solution.

How does the inclusion of VMware Storage I/O Control impact your solution?

A. VMware Storage I/O Control integrates into the proposed solution with no changes.

B. HP 3PAR Application Software Suite for VMware must be added to the solution

C. HP 3PAR Adaptive Optimization cannot be used in the solution.

D. VMware Adaptive Queue Depth Throttling must be enabled.

Correct Answer: A

QUESTION 2

Which tool does the HP StoreVirtual 4000 solution provide to help customers monitor array health?

A. Command View

B. Centralized Management Console

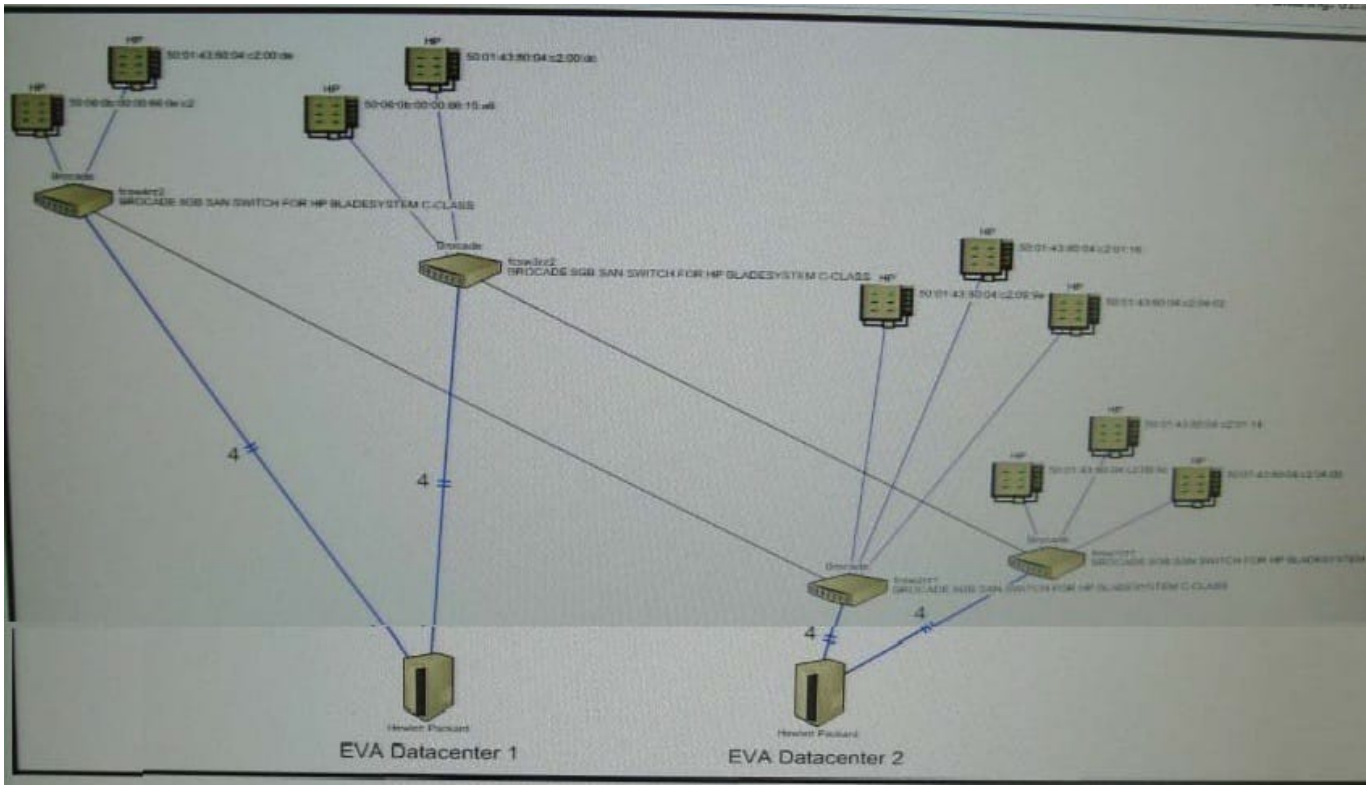
C. FCTool

D. SAN Toolbox

Correct Answer: B

QUESTION 3

Refer to the exhibit.



A customer reports performance issues in their newly-installed storage environment, which you designed. A storage performance report shows that the storage system is not over utilized. What should you recommend to solve the problem?

A. Add additional ISLs between the data centers.

B. Add more host ports to the attached server systems.

C. Add additional Fibre Channel cards in the storage system.

D. Trunk the existing ISLs between the data centers.

Correct Answer: A

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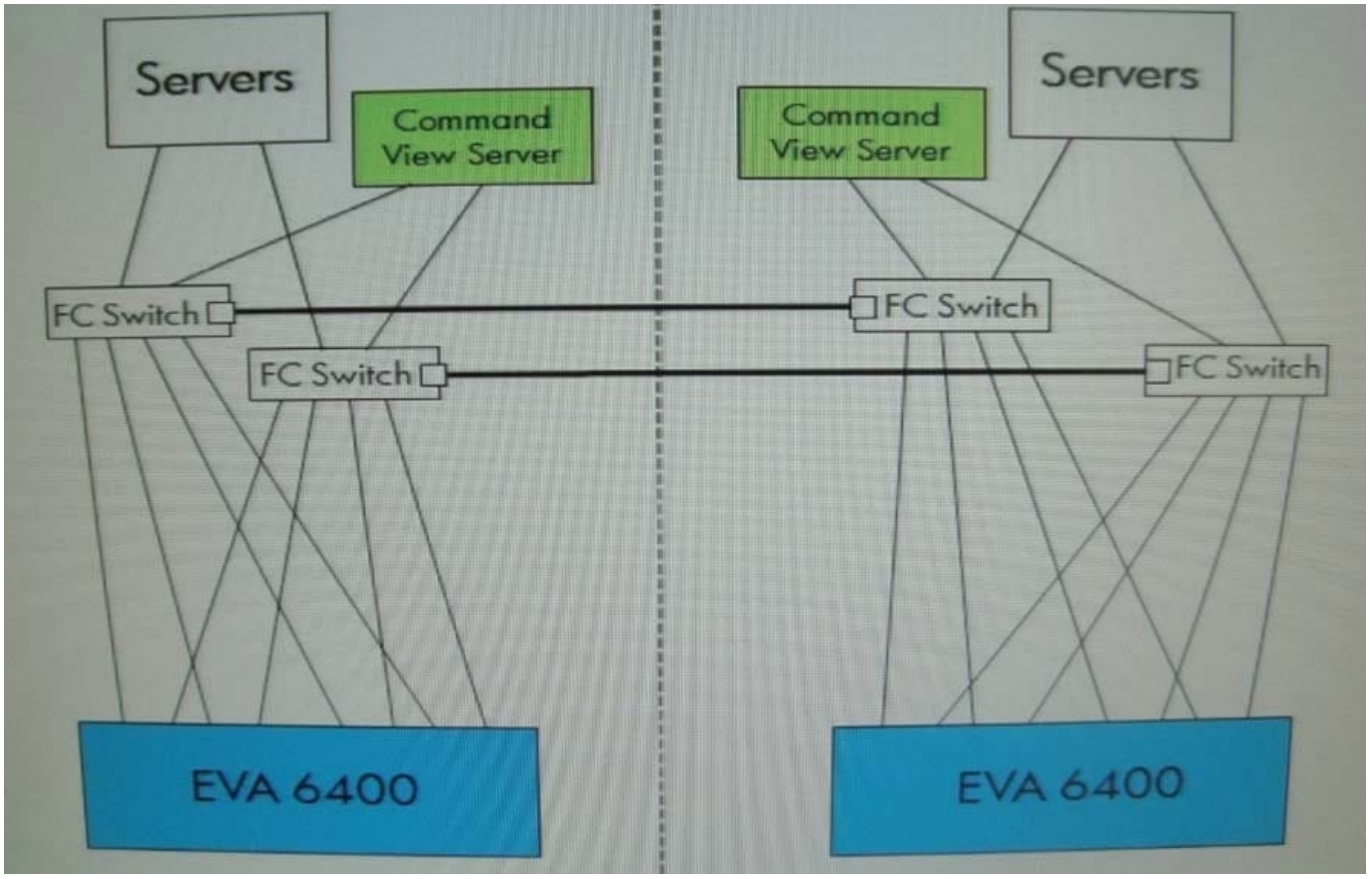
QUESTION 4

Refer to the exhibit.



The central IT department of a local city government has data centers in two buildings, which are several kilometers apart and are connected by long wave SFPs. They have implemented two HP 6400 Enterprise Virtual Arrays with

synchronous HP Continuous Access EVA zoned for a 6- logical-fabric solution. They are using redundant HP StorageWorks 4/32 SAN Switches at each site.

Central IT recently expanded to include more city departments and added 45 more servers and 23 TB of additional data into their solution However the users are reporting poor application performance.

Which Tool will enable the IT department to gather information about the DR tunnel in the environment?

A. HP DataCenter Fabric Manager

B. HP B-Series SAN

C. HP Command View EVA EVAperf

D. HP Intelligent Infrastructure Analyzer Software

Correct Answer: D

QUESTION 5

Which HP 3PAR StoreServ features help you meet IT improvement goals? (Select two.)

A. Persistence Ports

B. Thin Provisioning

C. Virtual Domains

D. Virtual Lock

E. Virtual Copy

Correct Answer: AB

QUESTION 6

You are working with a local children\\'s hospital on a full storage refresh proposal. The hospital has implemented a three-tier storage strategy as detailed below.

Tier 1 - Business critical 24x7 databases, email applications, and data warehouses. Also includes any other applications that have high availability and heavy write performance. This data is replicated to a disaster recovery site to ensure no data loss occurs in addition to standard backup practices. Currently 50 TB on HP XP12000.

Tier 2 - General user file shares and non-critical databases. Minimal downtime can be tolerated, and high performance is not required. This data is backed up daily. Currently 150 TB on multiple HP EVAs.

Tier 3 - Long-term archives of user data. The data is moved from Tier 2 to Tier 3 as it ages. Downtime can be tolerated, but data must be maintained. Backups are only done when new data is added to the archive. There are currently 250 TB on multiple HP P2000s.

Costs for ongoing maintenance and management are escalating, and the hospital is looking for ways to reduce costs and re-deploy storage management staff even with the annual 10% growth. You are designing an HP 3PAR StoreServ solution to meet their needs and are using the HP Storage Sizer to make your calculations.

Which workload mix meets the hospital\\'s needs for storage for the next year?

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

QUESTION 7

A customer extends their Oracle Database on a virtual volume residing on an HP 3PAR StoreServ array. After the extension is complete , the customer asks you why the addtional allocated space by the database is not reflected in the

occupation level on their HP 3PAR StoreServ array. You explain the superior TCO and ROI of HP 3PAR StoreServ arrays to the customer.

Which HP 3PAR StoreServ technology increases the efficiency of HP 3PAR StoreServ arrays and improves TCO and ROI?

A. HP 3PAR Virtual Array

B. HP 3PAR This Provisioning

C. HP 3PAR REplication

D. HP 3PAR Wide Stripping

Correct Answer: B

QUESTION 8

The customer has two HP 3PAR StoreServ 7000 Storage systems split between two data centers. Used capacity of each storage system is 10 TB of data. The replication between data centers is performed via Ethernet/IP, and the replication technology used will be asynchronous. The maximum RPO is 30 minutes, and the daily change rate of the customer data is a maximum of 0.5%, which is created evenly throughout the day.

What is the required minimum bandwidth between the data centers for replication?

A. 40 Mb half-duplex

B. 20 Mb full-duplex

C. 5 Mb half-duplex

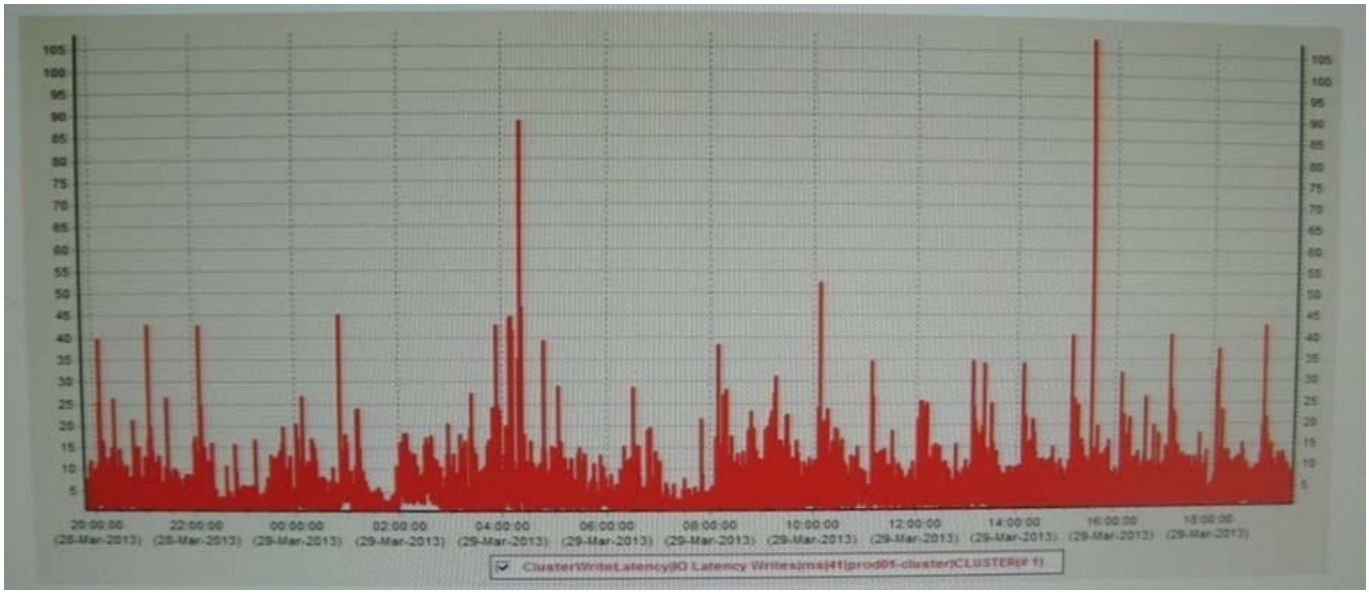
D. 10 Mb full-duplex

Correct Answer: D

10TB * 0.5% / (3600 * 24 / 0.5) = 0.303 MB/s = 3 Mbps per datacenter (full duplex!!!).

QUESTION 9

Refer to the exhibit:



A customer reports poor application performance on their Oracle database, which is on an existing two node provides you with the chart in the exhibit. Which assumption can you make based on this graph?

A. Hard drive background tasks cause a bottleneck on the cluster.

B. Asynchronous replication from this cluster causes a bottleneck.

C. Database read operations cause a bottleneck on the cluster

D. Writing archive logs causes a bottleneck on the cluster

Correct Answer: A

QUESTION 10

You are discussing cost reduction quality management, and business growth with a client. According to industry best practices, which CxO are you meeting with?

A. CFO

B. CIO

C. COO

D. CEO

Correct Answer: A

QUESTION 11

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

p4, topic "free

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

QUESTION 12

You are performing a demo of an HP StoreOnce 2620i Backup System solution in combination with HP Data Protector. All best practice guidelines for the VTL and Data Protector have been adhered to. However, you receive the following

error when formatting a cartridge in a previously-created VTL.

[Normal] From: MMA@demo.local "Drive_Demo" Time: 4/23/2013 10:26:09 PM Tape0:0:0:0C

Initializing new medium: "[4E94F289] 4E94F289"

[Major] From: MMA@demo.local "Drive_Demo" Time: 4/23/2013 10:26:10 PM [90:51] Tape0:0:0:0C Cannot write to device ([87] Wrong parameter.)

[Major] From: MMA@demo.local "Drive_Demo" Time: 4/23/2013 10:26:10 PM Initialization of medium failed. [Normal] From MMA@demo.local "Drive_Demo" Time: 4/23/2013 10:26:14 PM Ejecting medium Tape0:0:0:0C".

What must you do to perform a successful demo?

A. Add an iSNS-Server in the media Server iSCSI configuration, and restart the iSCSI service.

B. Disable "Automatically discover changed SCSI address" for the VTL drives, and rescan the library.

C. Disable "SCSI Reserve /Release (drive)" for all of the drives and robotics in the environment and rescan the library.

D. Change the maximum transfer length of the iSCSI initiator in regedit, and restart the media server.

Correct Answer: C

QUESTION 13

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 14

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 15

A large telecom company specializing in mobile services has experienced rapid growth. The year to year growth between 2003 and 2012 was approximately 15% .The proposed critical solution needs to work with the existing application modules and deliver a maximum data transfer capacity of 120TB. The solution has to offer Total Cost of Ownership (TCO) over the next 5 years. Which critical backup solution and support level should you propose? Select two.

A. HP Same day hardware support

B. HP StoreOnce 4430 with two upgrade kits

C. HP 6 HOUR CALL to repair support

D. HP StoreOnce B6200 with three 48 expansion kits

E. HP 24/7 4 hour response support

Correct Answer: CE

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