HP0-J64 Q&As

Designing HP Enterprise Storage Solutions

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QUESTION 1

Scenario Following the merger of two financial companies, management is considering combining the two distinct customer call centers into a single physical location. In addition to the overall call center headcount increasing by 30%, the support for two distinct customer bases presents the potential of having two different desktop PCs on the desk of each call center employee. Instead of correspondingly increasing IT support headcount to manage the single, larger call center and call center infrastructure, management believes they can reduce the required time to support call center operations by 40% if they employ virtual desktop technology.

An initial assessment has identified the need for a centralized storage solution that could support 500 virtual desktops running a variety of applications that can scale quickly to accommodate an expected increase in call center staff. The customer is already an HP Blade System customer using HP Virtual Connect Flex-10.

Some of the additional business criteria identified in customer planning interviews includes:

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Present multiple solutions, prioritized with a recommendation.

Refer to the scenario.

Select the HP MSA configuration with SAS + SSD drives that will satisfy the customer requirements.

A. HP MSA 1040, with converged controller and FC sfp

B. HP MSA 1040, with GbE Ports

C. HP MSA2040, with converged controller and Ethernet sfp

D. HP MSA2040, with SAS controller

Correct Answer: D

QUESTION 2

Which device type for server-side deduplication does HP Data Protector use?

A. OST

B. Implicit

C. Catalyst

D. Explicit gateway

Correct Answer: D

QUESTION 3

A customer requires a storage solution with the ability to easily align data placement within appropriate array tiers in order to reduce costs. Which description of HP 3PAR StoreServ Dynamic Optimization capabilities is accurate for this customer?

A. non-disruptive conversion from frequently-accessed data in a fully provisioned storage tier to a thinly provisioned storage tier

B. autonomic RAID-level alignment for all busy volumes after array capacity or controller upgrades

C. automatic placement based on volume access patterns, tier capacity settings, and pre- determined optimization schedules

D. user-initiated volume migration to the best tier, based on application needs or historical array performance analysis

Correct Answer: D

HP 3PAR Dynamic Optimization and HP 3PAR Policy Advisor for Dynamic Optimization are autonomic storage tiering tools that give your organization the ability to react quickly to changing application and infrastructure requirements. Used together, these unique 3PAR utilities alleviate the problem of costly and time-consuming quality of service (QoS) level optimization- even in the largest and most demanding environments.

HP 3PAR StoreServ Dynamic Optimization and Adaptive Optimization software are optional features that allow storage administrators to seamlessly migrate data between storage tiers in their environment without interrupting data access. Never HP 3PAR StoreServ Dynamic Optimization "a fully provisioned storage tier to a thinly provisioned storage tier"

HP 3PAR Thin-to-Fat and Fat-to-Thin Conversion In previous releases of the HP 3PAR OS, customers had to perform an offline transition in order to change the provisioning attributes of a volume. This used the legacy physical copy technology where upon completion of the copy, all the VLUNs and applications had to be manually moved from the old VV to the new one. With HP 3PAR OS 3.1.2 you now have the ability with HP 3PAR Thin-to-Fat and Fat-to-Thin Conversion to convert from a thin-provisioned volume to a fully-provisioned volume (or vice versa) without requiring an offline transition.

Fat-to-thin saves space for volumes that are sparsely consumed VMware datastores while thin- to-fat saves on thin provisioning license usage for data stores that are currently thin provisioned volumes and mostly or completely allocated.

(Answer for A) Non-disruptive conversion from frequently-accessed data in a fully provisioned storage tier to a thinly provisioned storage tier for Question HP 3PAR Fat-to-Thin Conversion http://www.vmware.com/ files/pdf/partners/hp/ vmware-vsphere-hp-3par-storeserv-so.pdf

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QUESTION 4

Scenario Following the merger of two financial companies, management is considering combining the two distinct customer call centers into a single physical location. In addition to the overall call center headcount increasing by 30%, the support for two distinct customer bases presents the potential of having two different desktop PCs on the desk of each call center employee. Instead of correspondingly increasing IT support headcount to manage the single, larger call center and call center infrastructure, management believes they can reduce the required time to support call center

operations by 40% if they employ virtual desktop technology.

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Limit the impact of additional rack space.

Minimize the risk of additional help-desk tickets.

Present multiple solutions, prioritized with a recommendation.

Refer to the scenario.

The company preferred to implement an ISCSI storage solution to reduce implementation costs. Which addition benefit of an HP StoreVirtual Storage solution should you emphasize in your proposal?

A. scale-up architecture

B. support for multiple workloads

C. built-in replication disaster recover

D. thin convergence

Correct Answer: D

The company preferred to implement an iSCSI storage solution to reduce implementation costs You need affordable storage designed for a virtualized infrastructure that\\'s easy to manage, supports continuous data growth, and keeps your

business up and running. HP StoreVirtual 4000 Storage, based on the LeftHand operating system, is a scale-out storage platform that is designed to meet the fluctuating needs of virtualized environments. Intuitive, common management and

storage federation meet the need for simplicity and flexibility in today\\'s virtual datacenters. It allows data mobility across tiers, locations, and between physical and virtual storage..

HP StoreVirtual is the most versatile storage platform on the market today. Its software-defined storage VSA software, and ProLiant rack and BladeSystem-based hardware models provide options to fit any infrastructure and budget.

Enterprise-class storage software functionality and leading virtualization software integration are built-in. This makes StoreVirtual the ideal platform for supporting virtualization growth at all stages. HP P4800 G2 31.5TB SAS SAN

BladeSystem, Thin provisioning support SAN/iQ Thin Provisioning. LeftHand Remote Copy lets you asynchronously replicate thin provisioned, (Not Answer D,)

QUESTION 5

A small service provider customer is in the process of a merger and needs to purchase additional IT infrastructure components to support the expansion of their customer base. The goal is to offer same-day repair from any hardware failures and increased high availability from the servers to the local array.

The new proposal provides the following Bill of Materials (BOM):

-HP StoreSure 2000 - 155 TB of Midline SAS SFF Drives - FC Controller Pair

-A pair of HP SN6000B 16Gb 48-port/48-port Active Fibre Channel switches

-

HP P2000 Remote Snap Software

-

HP SN1000 2 Port 16 Gb HBAs

-24 Fibre Channel cables

-10 HP ProLiant DL360 Gen8s

-vSphere Enterprise Plus and vCenter licenses from HP

-Call-to-repair 24x7 coverage with four-hour on-site response

The customer operating budget is constrained, and the price of the BOM is too high. Which components do you propose to change to meet their budget goals without sacrificing their critical to quality goals? (Select two.)

A. Modify the vSphere Enterprise Plus licenses to vSphere Enterprise.

B. Modify the HP SN6000B 48/48 switches to 48/24 switches.

C. Modify the HP SN600B 48/48 switch count to a quantity of one.

D. Modify the HBA connections by 50%.

E. Modify the Support to Next Business Day.

Correct Answer: AB

If you remove one fabric it\\'s no longer a HA solution. But they need only activate 12 ports on each switch, and vSphere Enterprise Plus only add manageability http://h18000.www1.hp.com/products/quickspecs/14212_div/14212_div.pdf http://h18004.www1.hp.com/ products/quickspecs/14104_div/14104_div.pdf

QUESTION 6

Which IT factors support the customer in accelerating time to market? (Select two)

A. optimized response times

B. integrated systems that reduce redundancy

C. 24x7 availability of applications

D. centralized IT

E. more efficient cost structures

Correct Answer: AC

Objective: Sought a reliable, secure and scalable high-performance platform to deliver managed cloud services, accelerate time-to-market and support rapid growth. Reduces hardware provisioning times three- fold, accelerating time-tomarket. http://h20195.www2.hp.com/v2/GetPDF.aspx%2F4AA4-6104EEW.pdf

In commerce, time to market (TTM) is the length of time it takes from a product being conceived until its being available for sale. TTM is important in industries where products are outmoded quickly. A common assumption is that TTM matters most for first-of-a-kind products, but actually the leader often has the luxury of time, while the clock is clearly running for the followers.

QUESTION 7

A current customer has an older HP 3PAR StoreServ F400 running InForm OS 2.3.1 in a pre- production data center and is facing a new schedule for scaling out the application into production. The scale out will require twice the capacity and three times the performance to handle the initial workload. You design a new high performance HP 3PAR StoreServ 7400 with 64 SSDs to meet the demand of the new application. The customer has already tested new application servers attached to the F400.Due to competitive issues, the customer needs to move into production quickly and with minimal disruption. Which solutions should you include to help ensure customer success? (Select two.)

A. HP MPX200 Appliance to facilitate automatic storage migration from the older 3PAR array with minimal disruption

B. HP 3PAR StoreServ Thin Conversion to reduce the storage requirement on the new array.

C. HP 3PAR StoreServ Peer Motion to allow for non-disruptive storage movement to the new array

D. HP 3PAR StoreServ Temporary Remote Copy License for data migration to the new array as easily as possible

E. HP 3PAR StoreServ Data Migration services to assist with populating the new array with production data

Correct Answer: BC

HP 3PAR Peer Motion Software is the first non-disruptive, do-it-yourself data migration tool for enterprise block storage. With Peer Motion, HP 3PAR Storage System customers can load balance I/O workloads across systems at will, perform

technology refresh seamlessly, cost- optimize asset lifecycle management, and lower technology refresh capital expenditure.

http://www8.hp.com/us/en/products/storage-software/product-detail.html?oid=5157539#! tab=features Data migration simplified (not apply). Question: the customer needs to move into production quickly and with minimal disruption.

Available in convenient packaged offerings, the HP 3PAR StoreServ Data Migration Service provides a flexible means of migrating your organization\\\'s critical data safely with minimal impact to your operation.

HP 3PAR Operating System Software Suite

Increase your storage management efficiency, capacity utilization and performance with this foundational software that offers autonomic provisioning and change management along with built-in HP 3PAR thin technology. Cut capacity

requirements in half and stay efficient over time.

Optional software suites:

3PAR Replication Software Suite

3PAR Data Optimization Software Suite

3PAR Security Software Suite

3PAR Reporting Software Suite

http://www8.hp.com/pt/pt/products/data-storage/data-storage-products.html? compURI=1225854#.Up_Tb9JdWE4

QUESTION 8

The customer wants to implement an HP StoreOnce soltuion for the environment show. You have been given the following information:
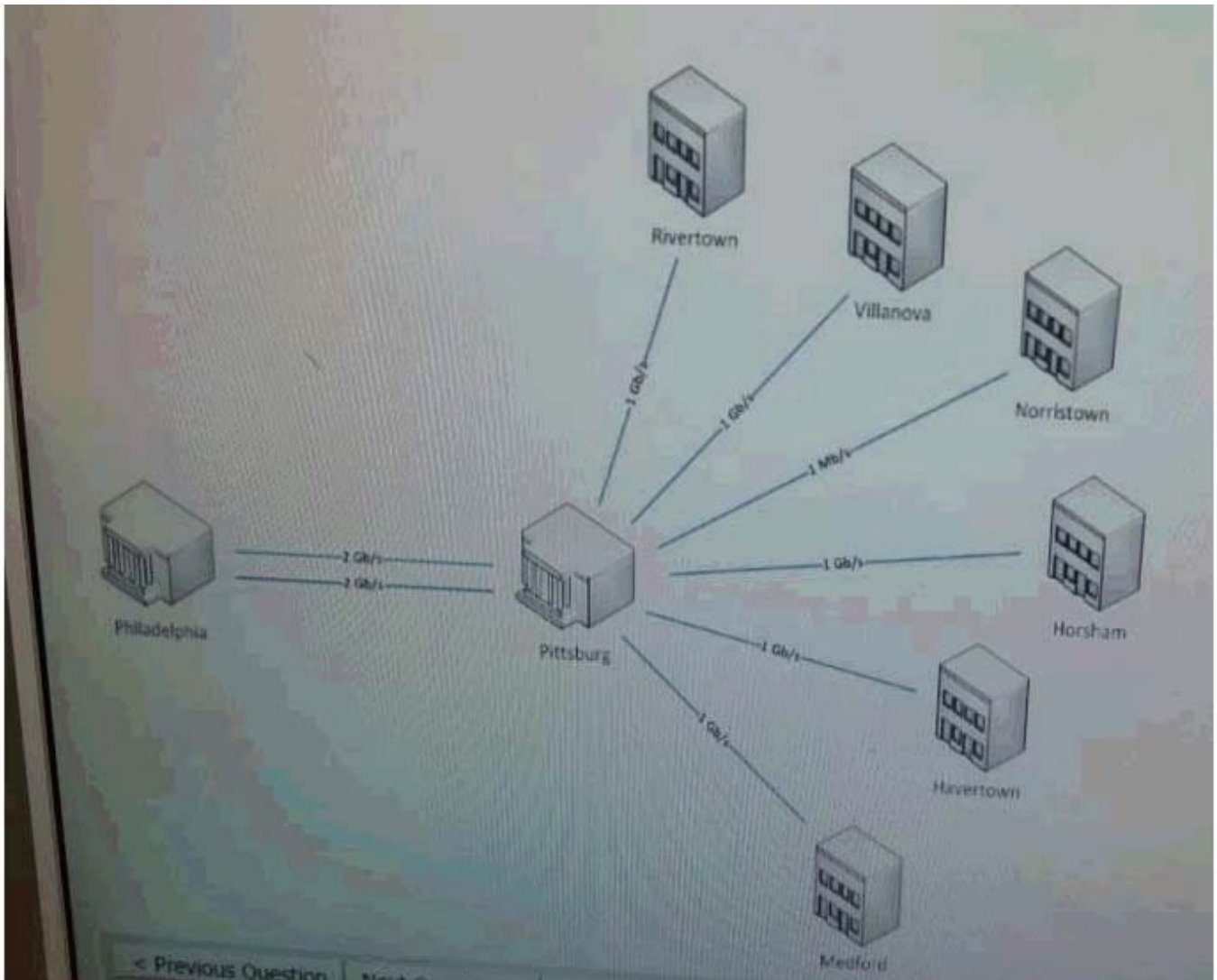
Each branch office has approximately 100 GB of data.

Philadelphia has approximately 2 TB data.

Pittsburg has approximately 1 TB data.

All backup data will be replicated back to the data center in Pittsburg.

Costs should be kept to a minimum but allow for the possibility of adding three more sites. Which HP StoreOnce solution should you propose for pittsburg?

A. HP StoreOnce B6200 Backup

B. HP StoreOnce 4220 Backup

C. HP StoreOnce 4420 Backup

D. HP Storeonce 2620 Backup

Correct Answer: B

Replication Licensing:

HP delivers replication by license, either as a standalone replication solution, or as part of the HP StoreOnce Catalyst licensing (see the following section below). With HP StoreOnce Backup, replication is licensed by VTL/NAS target, this

means that with one replication license:

1 source appliance can replicate to a single HP StoreOnce VSA* 8 source appliances can replicate to a single HP StoreOnce 2620 24 source appliances can replicate to a single HP StoreOnce 4210 or 4220 50 source appliances can

replicate to a single HP StoreOnce 4420 or 4430 96 source appliances can replicate to a single HP StoreOnce B6200 48 TB target http://h18004.www1.hp.com/products/ quickspecs/14450_div/14450_div.pdf

In this time you have 8 source appliances can replication and future you need adding three more sites. (8 + 3= 11 minimum source)

QUESTION 9

A customer needs to refresh a mission-critical Fibre Channel block storage solution. They need a budgetary quote by end of the week. Which key initial information should you gather to design an appropriate high-level HP Storage solution?

A. number of host ports needed, current volume counts IOP averages, disaster recovery, and backup criteria

B. current RAID levels, backup and replication criteria, number of SAN ports, and current disk speeds

C. current RAW capacity, estimated array level IOPS, replication and backup criteria, and number of host ports needed.

D. usable capacity, replication and backup criteria, number of thinly provisioned volumes, and deduplication rations

Correct Answer: C

mission-critical Fibre Channel block storage solution Simplification of your storage management Lowering costs Increased performance Ensuring reliability Supporting green initiatives Scalability Security

QUESTION 10

Scenario Following the merger of two financial companies, management is considering combining the two distinct customer call centers into a single physical location. In addition to the overall call center headcount increasing by 30%, the support for two distinct customer bases presents the potential of having two different desktop PCs on the desk of each call center employee. Instead of correspondingly increasing IT support headcount to manage the single, larger call center and call center infrastructure, management believes they can reduce the required time to support call center operations by 40% if they employ virtual desktop technology.

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Present multiple solutions, prioritized with a recommendation.

Refer to the scenario.

The customer is concerned about data migration from their third-party storage array to a new solution. How do you solve

this concern.

A. Focus on an HP StoreServ 7000 Storage solution to use the online import from data migration.

B. Advise a new backup and recovery concept using HP StoreOnce Backup Systems to avoid data loss.

C. Present Hyper Visor storage migration functionalities to migrate data online.

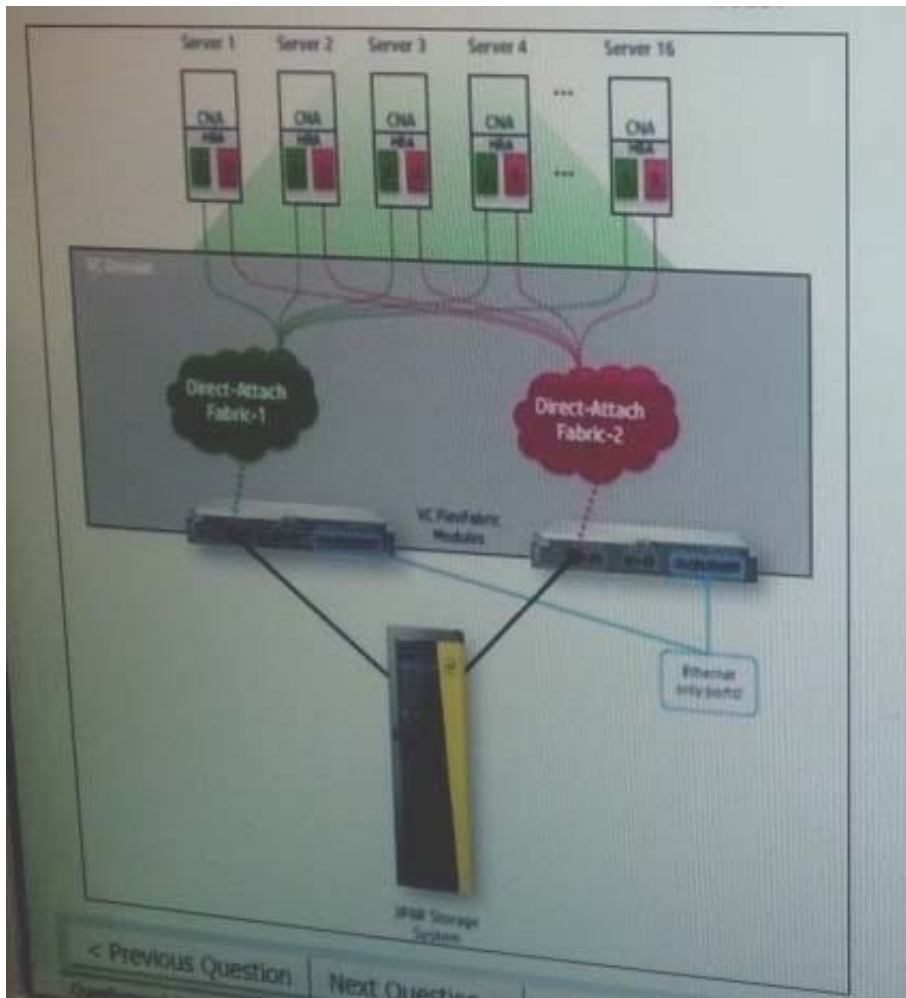D. Include HP Virtual Connect FlexFabric modules in the design to keep all migration paths open.

Correct Answer: C

Present HyperVisor storage migration functionalities to migrate data online

QUESTION 11

The IT director for a packaged foods corporation is soliciting design concepts from vendors for a new call center infrastructure. The IT director\\'s objectives are to use up to 16 state-of-the-art virtualized blade servers and easy-to-implement Fibre Channel storage.

Backup architecture is already provided by the IT director\\'s team. After reviewing the customer needs, you begin to develop asolution. You show the IT director an illustration of the design. (Refer to the exhibit.)

Which benefit of the Flat SAN feature matches the customer needs?

A. Simplify fabric management by connecting HP Virtual Connect FlexFabric Fibre Channel directly to HP 3PAR StoreServ Fibre Channel storage.

B. Use Virtual Connect Flex-10 to further improve interconnect efficiency

C. Scale with the pay-as-you-grow model and pay for only what is currently needed

D. Manage through a single pane of glass with Virtual Connect Manager Web-based and Command Line Interfaces

Correct Answer: A

http://h20195.www2.hp.com/V2/GetPDF.aspx%2F4AA4-6479ENW.pdf

HP 3PAR StoreServ Flat SAN and Direct Attached Storage In client virilization environments, up to B0% of network traffic is server-to-server and server- to-storage. Legacy, multi-tier, fibre-channel network architectures require a complex web of network cards, interconnects, cables, and switches to keep pace with this changing traffic This approach creates performance bottlenecks and drives higher costs and complexity to build, maintain, and secure at scale.

To address this problem HP announced HP Virtual Connect for 3PAP with FLAT SAN technology, the industry\\'s first direct connection to fibre channel-based storage that does not require dedicated switches. This technology provides a simplified architecture with best-h-class storage and network innovations such as BadpSvsrpm Virtual Connect, and the HP 3PAN StoreServ.

Customer benefits include these features:

* Single layer fibre channel storage network eliminates SAN switches and Host Bus Adapters (HBAs)

-Massive simplification of fabric management

-2.5x faster fibre channel storage provisioning

-50% less infrastructure costs

-Automated zoning capabilities to set up zones with one-click

-Up to 55% less latency by removing the SAN fabric layer

QUESTION 12

What is the minimum number of nodes a new storage solution should have to support Network RAID 10 +1?

A. 2

B. 3

C. 4

D. 5

Correct Answer: D

QUESTION 13

Scenario

Following the merger of two financial companies, management is considering combining the two distinct customer call centers into a single physical location. In addition to the overall call center headcount increasing by 30%, the support for

two distinct customer bases presents the potential of having two different desktop PCs on the desk of each call center employee. Instead of correspondingly increasing IT support headcount to manage the single, larger call center and call

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Refer to the scenario.

Your proposed design includes a VMware View environment using HP storeVirtual 4800. What has to be considered when designing a solution?

A. Offer asynchronous replication to keep the virtual desktops up and running in case of a component failure.

B. Use VMware View provisioning servers outside the blade to minimize LAN traffic to the enclosure.

C. Avoid boot storms and insufficient response times during critical shift change hours.

D. Include HP virtual Connect FlexFabric to connect to the HP StoreVirtual environment.

Correct Answer: C

HP P4800 G2 31.5TB SAS SAN BladeSystem Capacity 31.5TB Starting, 504TB Maximum Drive description (70) LFF SAS Host interface 10 GbE iSCSI (4) Ports Replication support SAN/iQ Remote Copy Asynchronous Replication with Bandwidth Throttling; Multi-Site/ Disaster Recovery Thin provisioning support SAN/iQ Thin Provisioning www.hp.com/go/P4000Compatibility www.hp.com/go/P4000Compatibility Hyperlink VMware?Horizon ViewTM (formerly VMware View) is a virtual desktop infrastructure solution that simplifies desktop

The customer is already an HP Blade System customer using HP Virtual Connect Flex-10 (Not It makes no sense answer D), HP Virtual Connect Flex-10 10Gb Ethernet Modules for c- Class BladeSystem simplify networks by reducing

cables without adding switches to manage; They provide 4:1 consolidation of interconnect equipment: Each VC Flex-10 module can replace up to four Ethernet switches supporting data and iSCSI storage traffic. A "boot storm" is the tremendous performance drain experienced when hundreds or thousands of users logon at, or near, the same time in VDI environments. The drag on network throughput, host performance and SAN I/O can be devastating to an unprepared VDI installation. Some of the pressure can be eased by building the environment according to some best practices laid out by virtualization vendors. But, there are a few areas that you might not have considered when constructing your VDI infrastructure. http://www.zdnet.com/blog/virtualization/boot-storms-and-how-to-avoid-them/4767

QUESTION 14

A customer has an HP BladeSystem c7000 with HP Virtual Connect Flex-10 modules interconnect bays 1 and 2. The customer wants to install an HP Proliant BL460c Server Blade with no options. Which Feature is unavailable to the customer with this configuration?
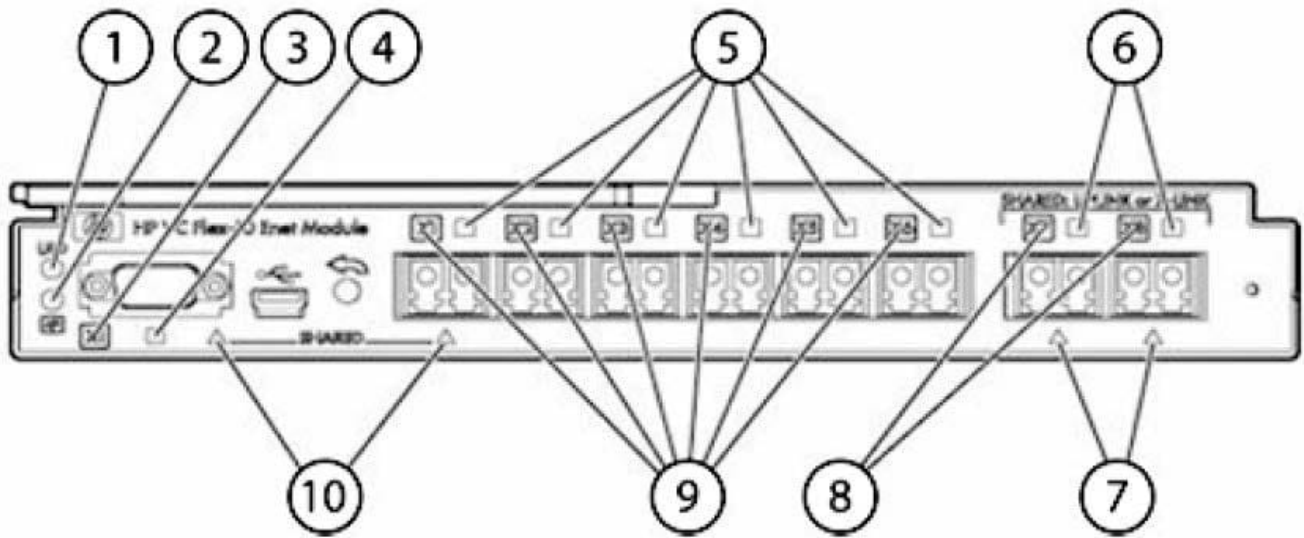
A. Fibre Channel

B. Ethernet

C. iSCSI

D. VLANs

Correct Answer: A

http://h18004.www1.hp.com/products/quickspecs/13127_div/13127_div.pdf http://h18000.www1.hp.com/products/quickspecs/productbulletin.html#spectype=worldwideandty pe=htmlanddocid=13127

Overview HP Virtual Connect Flex-10 10Gb Ethernet Module for c-Class BladeSystem

Simplify and make your data center change-ready. The HP Virtual Connect Flex-10 10Gb Ethernet Module for the c-Class BladeSystem is the simplest, most flexible connection to your networks. The Virtual Connect Flex-10 Ethernet Module is a new class of blade interconnect that simplifies server connections by cleanly separating the server enclosure from LAN, simplifies networks by reducing cables without adding switches to manage Virtual Connect wire-once connection management allows you to change servers in just minutes, not days, and tailors network connections and speeds based on application needs. HP Flex-10 technology significantly reduces infrastructure costs by increasing the number of NICs per connection without adding extra blade I/O modules, and reducing cabling uplinks to the data center network. The HP Virtual Connect Flex-10 10Gb Ethernet Module for c-Class BladeSystem is an innovative, new class of integrated interconnects from HP.

QUESTION 15

A customer plains to replace their storage array with an HP 3PAR StoreServ 10800 Storage System. This array stores sensitive data and must be highly available. The solution must comply with all legal requirements for securing sensitive data. Which level of service you recommend for the new HP 3PAR StoreServ array?

A. Support Plus 24

B. SupportPlus 24 with Data Media Retention

C. Proactive 24 with 6-hour CTR

D. Critical Service with Data Media Retention

Correct Answer: C

Support plus 24 24x7x365 hardware and software services - plus cost-saving software updates and more. HP Support Plus 24 helps you increase performance and availability with comprehensive, consistent hardware and software services. Working with your IT team, HP Services engineers deliver onsite hardware support and over-the- phone software support around-the-clock 365 days per year.

Choose Support Plus 24 when you need to: Improve uptime with responsive hardware and software services available anytime, cost-effectively obtain expert 24x7 hardware and software support, enjoy consistent service coverage across geographically dispersed sites. Proactive 24 Proactively enhance your environment\\'s stability, effectiveness, and efficiency. HP Proactive 24 Service is an integrated hardware and software support solution that combines efficient problem prevention with responsive technical assistance whenever you need it. This HP Care Pack extended warranty service not only improves the effectiveness of technologies across your networking infrastructure. It establishes a collaborative relationship between you and HP that strengthens your IT team and gives you rapid access to our expertise as issues arise. An assigned HP account manager serves as your primary contact for proactive services and access to our broad base of technical resources. Your account manager works closely with your IT staff to understand your environment and goals, document all the components of your infrastructure, recommend changes to improve performance and stability, and monitor ongoing operations through state-of-the-art remote tools.

HP Support Plus Provides support for both hardware and software during standard business hours. HP Support Plus 24 Extends HP Support Plus coverage to 24x7 HP Proactive 24 Complements internal IT resource with proactive services that minimize downtime and improve the IT environments\\'s effectiveness.

Care Pack **Services** with Defective **Media Retention**
www.ts.avnet.com/.../**services**/.../care_pack_**services**... ▾ Traduzir esta página
HP Care Pack **services** with Defective **Media Retention** (DMR) ... a **critical** business
proposition in an age where **data** leaks are big news and the technology ...

Critical Service with Defective Media Retention HP Care Pack services with Defective Media Retention (DMR) HP recently announced the introduction of HP Care Pack services with Defective Media Retention (DMR) which allows customers to ensure their data safe and secure by maintaining control over defective storage disks for just a 10% uplift in their Care Pack expenditure

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