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Designing HP Enterprise Storage Solutions

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QUESTION 1

Which backup platforms are supported with HP StoreOnce Catalyst via an OpenStorage Technology (OST) integration?

A. CommVault Galaxy

B. CA ARCserv

C. Symantec Backup Exec 2013

D. IBM TSM

Correct Answer: C

http://h20628.www2.hp.com/km-ext/kmcsdirect/emr_na-c03478346-1.pdf http://h20195.www2.hp.com/v2/GetPDF.aspx%2F4AA4-4500ENW.pdf

Backup Exec OST OST is a Symantec backup interface that allows intelligent storage devices, like the HP StoreOnce Backup system, to work with Symantec\\'s Backup Exec software. OST provides Backup Exec administrators with advanced capabilities, such as optimized duplication and DR copy creation.

QUESTION 2

The Converged Infrastructure Architect of small aviation firm issued an RFP to three vendors for a new Greenfield virtualization infrastructure. The RFP has the following design criteria:

-8 blades x86 virtualization servers, 2x6 core West mere Processors, 128 GB of RAM

-vCenter Server or a physical host, 1x6 core, 16Gb of RAM, MS Windows 2008R2 license

-licenses for vSphere, five for each server

-scale-out-style, iSCSI-based storage, approximately 100 TB usable

-CIFS access required for a third-party application that is on four physical hosts

-7x24 /4-hour response support - capacity to support host and storage 10 Gb Ethernet connectivity.

Which products satisfy the design requirements?

A. HP StoreSure 2000FC array + HP StoreEasy 3830 Gateway Storage

B. HP StoreVirtual VSA Software + HP StoreEasy 3830 Gateway Storage

C. HP StoreVirtual 4330 array+ HP StoreEasy 3830 Gateway Storage

D. HP StoreSure 2000FC array+ HP StoreAll 9300 Gateway Storage

Correct Answer: A

Request for proposal (RFP)

Capacity to support host and storage 10 Gb Ethernet connectivity:

HP StoreVirtual VSA Software + HP StoreEasy 3830 Gateway Storage HP StoreVirtual 4330 array 1 GbE iSCSI (4) Ports Optional upgrade to 10GbE iSCSI (2) Ports HP StoreSure 2000FC array: Fibre Channel, Combo FC/iSCSI, 6Gb SAS,

and 1Gb or 10GbE iSCSI systems

HP StoreAll 9300 Gateway Storage, 4 1GbE ports and choice between 2 10GbE or 2 IB ports for customer data network.

iSCSI-based storage, approximately 100 TB usable:

HP StoreVirtual 4330 array: Capacity 2.4TB Starting and 1152TB Maximum, Drive description (720) SFF SAS or (256) SFF MDL SAS or (1152) LFF MDL SAS.

HP StoreVirtual VSA Software: HP StoreVirtual VSA now featuring adaptive optimization with sub-volume tiering automation to optimize performance and cost for dynamic workloads plus flexible product offerings ranging from 4-to-50 TB capacity

StoreAll 9300 Gateway Storage: (Not support StoreSure 2000FC) Storage expansion options: Attach to HP 3PAR StoreServ, EVA or XP arrays

Storage Capacity : 7.2TB raw capacity (5.7TB after RAID) with 24 300GB Enterprise SAS 10K SFF drives, 21.6TB raw capacity (17.1TB after RAID) with 24 900GB Enterprise SAS 10K SFF drives, 48TB raw capacity (32TB after RAID) with

24 2TB Midline SAS 7.2K LFF drives, 72TB raw capacity (48TB after RAID) with 24 3TB Midline SAS 7.2K LFF drives and Expansion Capacity Block storage capacity of 7.5TB raw capacity (6TB after RAID) with 25 300GB Enterprise SAS

10K SFF drives, 22.5TB raw capacity (18TB after RAID) with 25 900GB Enterprise SAS 10K SFF drives, 48TB raw capacity (32TB after RAID) with 24 2TB Midline SAS 7.2K LFF drives ,72TB raw capacity (48TB after RAID) with 24 3TB

Midline SAS 7.2K LFF drives

HP StoreEasy 3830 Gateway Storage:

Storage expansion options: Attach to 3PAR StorServ, EVA P6000, P9000 or P2000 arrays. Compatible operating systems: Microsoft Windows (CIFS), Linux, UNIX, VMware. HP StoreSure 2000FC array:

Modular Smart Array (MSA) solutions 2312fc, 2324, and P2000 and focuses on implementing and managing an MSA SAN solution. iSCSI-based storage, Capacidade 384TB Maximum Including expansion, depending on model

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QUESTION 3

Which condition result in an Persistent Port failover on an HP 3PAR StoreServ array at In Farm OS level 3.1.3? (Select two)

A. Automatic master node assignment change

B. RSCN event after zone set update

C. Loss of port sync

D. User directed Host Persona Change

E. Node Reboot or spontaneous failure

Correct Answer: BD

Fabric zoning controls which FC end-devices have access to each other on the fabric. Zoning also isolates the host and HP 3PAR StoreServ Storage ports from Registered State Change Notifications (RSCNs) that are irrelevant to these ports

When changing an existing host persona from 6 to 11, a host reboot is required tor the change to take effect. This is an offline process. See "Configuring ESX/ESXi Multipathing for Round Robin via SATP PSP" (page 42) for the detailed procedure, as the host persona change should coincide with changing the SATP rules on the host as well.

QUESTION 4

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

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

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