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QUESTION 1

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 2



Refer to the exhibit.

HP StoreServ 7000 Calculator #1

Hardware Configuration Selections and Calculator Options

Array Type: 7200
Location/Site:
Sparring Policy: Default
Model Choice: 7200 - 2C / 5 Chassis / 144 Disks
Recommended: 7200 - 2C / 5 Chassis / 144 Disks

Array Metrics As Sized

Max Model Capacity: 42.98 TB
Max Model Disk Count: 144
BE IOPS: 4000
BE MBPS: 4000

Raw Cap: 39.09 TiB
Thin Req: 0 TB

User Workload Definition

Add Requirement By: Number of Physical Disks
Enter the number of disks: 144 Disks
Disk Type: 300GB 15K FC SFF Disk
RAID Choice: RAID50 3:1
Virtual Volume Type: Base Virtual Volume

StoreServ 7000 Workloads and Groups

Up Name	Disk	RAID	Usable TB	Raw TB	Overhead TB	Disks	Vol R:W	ART Rd/All	%Cache	FI
Group of...	300GB 15K FC SFF Disk	Mixed		42.98	1.86	144	Mixed			1
	300GB 15K FC SFF Disk	RAID50 3:1	30.84	42.98	1.86	144.00	Base 80/20	20/16.20 ms	0	1

Which field should you change to increase useable capacity and still meet the remaining requirements?

- A. Read %
- B. RAID choice
- C. Number of disk
- D. Disk type

Correct Answer: B

https://roianalyst.alinean.com/ent_02/AutoLogin.do?d=11840239389855150 Possible Raid Choice, or Number of disk
95% Raid Choice

QUESTION 3

Your customer is rapidly expanding and wants to migrate from direct-attached storage to an array-based storage platform. Which benefit can be achieved by moving to the HP 3PAR StoreServ platform?



- A. reduces administration time by up to 75%
- B. reduces SAN equipment costs
- C. reduces power costs by 75%
- D. cuts disk capacity requirements by 50% or more

Correct Answer: D

<http://www.certificationexplorer.com/Documents/HP0-J64.pdf>

QUESTION 4

A pharmaceutical company is planning to replace their existing SAN environment with new HP 3PAR StoreServ array. They run a multi-vendor data center and need to support applications running under multiple operating systems. They must support AIX, VmWare and Microsoft Windows.

10800FC-duo (exhibit):



	AIX	IBM Virtualization	Apple Mac OS X	Citrix XenServer	HP-UX	HP Virtual Machines	Mainframe	MPE/iX	NetWare	NonStop OS	OpenVMS	Oracle Linux	Red Hat	Red Hat Virtualization	SGH-RIX	Solaris	SUSE	SLES Virtualization	Tru64 Unix	Ubuntu	Virtual Server	VMware	Windows 2012	Windows 2008	Windows 2003	Windows XP P10	Windows 2000	Windows NT 4.0
10000 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
10800 10Gb FCoE													✓									✓						
10800 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
10400 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
10400 10Gb FCoE													✓									✓						
10400 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7450 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7450 10Gb FCoE													✓									✓						
7450 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7400 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7400 10Gb FCoE													✓									✓						
7400 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7200 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7200 10Gb FCoE													✓									✓						
7200 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
T800 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
T800 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
T400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
T400 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F400 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F200 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F200 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			

A pharmaceutical company is planning to replace their existing SAN environment with a new HP 3PAR S to and need to support applications running under multiple operating systems. They must support AIX, VMware versions of Microsoft Windows - Explore HP 3PAR StoreServ Storage HP 3PAR StoreServ Storage interoperability: HP 3PAR StoreServ 10000 Storage was previously known as HP P10000 3PAR Storage System

Storage array models 10400 and 10800 were previously Known as P10000(V400) and P10000(V800)

respectively HP 3PAR OS 3.1.1 was previously known as InForm OS 3.1.1

For Recovery Manager products (RMV, RME, RMS, RMO) and other host-based product supported configurations, please refer to the 3PAR Array Software page.



AIX	IBM Virtualization	Apple Mac OS X	Citrix XenServer	HP-UX	HP Virtual Machines	Mainframe	MPE/iX	NetWare	NonStop OS	OpenVMS	Oracle Linux	Red Hat	Red Hat Virtualiza...	SGI-IRIX	Solaris	SUSE	SLES Virtualization	Tru64 UNIX	Virtual Server	VMware	Windows 2012	Windows 2008	Windows 2003	Windows XP Pro	Windows 2000	Windows NT 4.0
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	AIX	IBM	Ap	Cit	HP	HP	Ma	MF	Na	No	Op	Or	Re	Re	SG	So	SU	SL	Tr	Vir	Vir	Wi	Wi	Wi	Wi	Wi	Wi
10800 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				
10800 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				
10400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				
10400 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				
7400 FC				✓	✓							✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				
7400 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				
7200 FC				✓	✓							✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				
7200 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				
T800 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				
T800 iSCSI				✓								✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				
T400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				
T400 iSCSI				✓								✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				
F400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				
F400 iSCSI				✓								✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				
F200 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				
F200 iSCSI				✓								✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				

Referring to the exhibit, which HP 3PAR StoreServ array would meet their needs?

- A. HP StoreServ 7400 FC
- B. HP StoreServ 10800 iSCSI
- C. HP StoreServ T400 iSCSI
- D. HP StoreServ 108000 FC

Correct Answer: A



	AIX	IBM Virtualization	Apple Mac OS X	Citrix XenServer	HP-UX	HP Virtual Machines	Mainframe	MPE/iX	NetWare	NonStop OS	OpenVMS	Oracle Linux	Red Hat	Red Hat Virtualization	SG-IRIX	Solaris	SUSE	SLES Virtualization	Tru64 Unix	Ubuntu	Virtual Server	VMware	Windows 2012	Windows 2008	Windows 2003	Windows XP P10	Windows 2000	Windows NT 4.0
10000 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
10800 10Gb FCoE													✓									✓						
10800 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
10400 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
10400 10Gb FCoE													✓									✓						
10400 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7450 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7450 10Gb FCoE													✓									✓						
7450 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7400 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7400 10Gb FCoE													✓									✓						
7400 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7200 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7200 10Gb FCoE													✓									✓						
7200 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
T800 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
T800 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
T400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
T400 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F400 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F200 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F200 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			

QUESTION 5

A customer is planning to move four HP BladeSystem c7000s to another location. The Onboard Administrator firmware is at the current version. The disk drives and Virtual Connect Flex-10 modules must be removed before shipment. Which design impact must be considered if the Virtual Connect Flex-10 modules are not reinstalled in their original locations?

- A. The Virtual Connect configurations on the installed chassis will be overwritten.
- B. The blade chassis will be reset to factory defaults.
- C. The original Virtual Connect configurations will remain intact.
- D. All server network and SAN connections will be disabled.



Correct Answer: D

[http://h20565.www2.hp.com/portal/site/hpsc/template.BINARYPORTLET/public/kb/docDisplay/resource.process/spf_p.tpst=kbDocDisplay_ws_Blandspf_p.rid_kbDocDisplay=docDisplayResURLandjavax.portlet.begCacheTok=com.vignette.cachetokenandspf_p.rst_kbDocDisplay=wsrp-resourceState %3DdocId% 253Demr_na-c03801914-2%257CdocLocale %253Dandjavax.portlet.endCacheTok=com.vignette.cachetoken](http://h20565.www2.hp.com/portal/site/hpsc/template.BINARYPORTLET/public/kb/docDisplay/resource.process/spf_p.tpst=kbDocDisplay_ws_Blandspf_p.rid_kbDocDisplay=docDisplayResURLandjavax.portlet.begCacheTok=com.vignette.cachetokenandspf_p.rst_kbDocDisplay=wsrp-resourceState%3DdocId%253Demr_na-c03801914-2%257CdocLocale%253Dandjavax.portlet.endCacheTok=com.vignette.cachetoken)

Connecting multiple enclosures Virtual Connect supports the connection of up to four c7000 enclosures, which can reduce the number of network connections per rack and also enables a single VC Manager to control multiple enclosures. A single set of cables can be used to carry all external Ethernet traffic from a single rack. Multiple enclosure support enables up to four c7000 enclosures to be managed within a single Virtual Connect domain.

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