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QUESTION 1

A customer has a transaction-based application running on three blade servers that require very High I/O performance exceeding 75,000 IOPs. The customer has an HP BladeSystem c7000 with Flex-10 Virtual Connect and 16 HP ProLiant BL460 Gen8 servers with no externally attached storage because their storage capacity requirements are extremely low?

Which solution would achieve greater performance with minimal disruption for this customer?

- A. Add an HP IO Accelerator mezzanine card to the blade servers
- B. Add an HP X1800sb Network Storage Blade and attach it to the servers
- C. Add a SAS attached D2700 Disk Enclosure to the environment with 8 SSD drives
- D. Add additional HDD drives to the existing blade servers in a RAID 50 stripe set

Correct Answer: B

QUESTION 2

The IT manager of a company wants their NAS storage system that uses deduplication to be more efficient. Which NAS system meets this requirement?

- A. HP StoreOnce with catalyst
- B. HP 3PAR StoreServ with Thin Provisioning
- C. HP MSA 2040 with snapshot technology
- D. HP StoreEasy with Windows Storage Server

Correct Answer: D

HP X3000 G2 Storage boosts the value of your array or SAN by adding Windows Storage Server-powered, IP-based gateway services to it.

QUESTION 3

A customer has an HP StoreVirtual six node cluster. The HP StoreVirtual system is presenting 30 Network RAID 10 LUNs to an application server. The application server has HP DSM for MPIO and HP Application Aware Snapshot Manager installed. The customer wants to add four more nodes to the cluster.

What must be considered when adding the four additional nodes?

- A. There is a maximum number of eight nodes per cluster.
- B. Network RAID 10 drives need to be converted to Network RAID 10+1.
- C. HP DSM for MPIO will not support the new configuration.

D. All data needs to be backed up and restored.

Correct Answer: C

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QUESTION 4

A customer in the financial needs full high availability and optimal write performance of an HP StoreVirtual 4000 solution in case of a data center failure.

Which Network RAID level should you recommend?

- A. Network RAID 6
- B. Network RAID 10
- C. Network RAID 10+1
- D. Network RAID 10+2

Correct Answer: D

Network RAID-0, Network RAID-5, and Network RAID-6 will not tolerate site failures. Network RAID 5 - Stores three data and one parity as a minimum configuration i.e 3+1 , meaning three nodes as a starting point.

Network RAID 6 - Stores three data and two parity as a minimum configuration i.e 3+2 , meaning five nodes are required initially.

Network RAID 10 - Stores two copies of each volume's block, providing continuous data availability across any single node failure.

Network RAID 10+1 - Stores three copies of each block for mission-critical data that needs to be available despite any double node failure.

Network RAID 10+2 - used in situations where a cluster is divided between two locations, and the data must be continuously available in the event of both a site failure and a node failure at the alternate site (Campus SAN).

Full high availability and optional write performance of and HP StoreVirtual 4000 [http://h20565.www2.hp.com/portal/site/hpsc/template.PAGE/public/kb/docDisplay/?](http://h20565.www2.hp.com/portal/site/hpsc/template.PAGE/public/kb/docDisplay/?sp4ts.oid=4118659andspf_p.tpst=kbDocDisplayandspf_p.prp_kbDocDisplay=wsrp- navigationalState%3DdocId%253Dmmr_kc-0108305-19%257CdocLocale%253Den %257CcalledBy %253DSearch_Resultandjavax.portlet.begCacheTok=com.vignette.cachetokenandjavax.portlet.endCacheTok=com.vignette.cachetoken)

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Network RAID10+1: Data is striped and mirrored across three or more storage systems. Three copies of the Data in a volume configured with Network RAID10+1 are available and preserved in the event that any two storage systems become

unavailable. Best applications for Network RAID10+1 are those that require data availability even if two storage systems in a cluster become unavailable.

Network RAID10+2: Data is striped and mirrored across four or more storage systems. Four copies of the Data in a

volume configured with Network RAID10+2 is preserved in the event that any three storage systems become unavailable.

Network RAID10+2 are designed for Multi- Site SANs to preserve data in the event of an entire site becoming unavailable. Best use for Network RAID10+2 volumes is for data that must be synchronously replicated between two locations and

must remain fully redundant in the case of an entire site failure.

QUESTION 5

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

- A. OST
- B. Implicit
- C. Catalyst
- D. Explicit gateway

Correct Answer: D

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