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QUESTION 1

Based on best practice, what is the maximum number of paths a host should have to an XtremIO volume?

A. 4

B. 8

C. 16

D. 32

Correct Answer: C

The recommended maximum number of paths to storage ports per host is 16 as per the table below.

2 HBAs	2 X-Bricks		Ports Per Cluster
HBA1	X1_SC1_FC1	X1_SC2_FC1	8
	X2_SC1_FC1	X2_SC2_FC1	
HBA2	X1_SC1_FC2	X1_SC2_FC2	
	X2_SC1_FC2	X2_SC2_FC2	

4 HBAs	2 X-Bricks		Ports per Cluster
HBA1	X1_SC1_FC1	X1_SC2_FC1	16
	X2_SC1_FC1	X2_SC2_FC1	
HBA2	X1_SC1_FC2	X1_SC2_FC2	
	X2_SC1_FC2	X2_SC2_FC2	
HBA3	X1_SC1_FC1	X1_SC2_FC1	
	X2_SC1_FC1	X2_SC2_FC1	
HBA4	X1_SC1_FC2	X1_SC2_FC2	
	X2_SC1_FC2	X2_SC2_FC2	

References: https://www.emc.com/collateral/white-papers/h14475-wp-xtremio-brocade-best-practices.pdf?
isPublic=false , page 12

QUESTION 2

When creating XtremIO volumes for a host, which operating systems will benefit by changing the default logical block size for applications consisting of 4 KB I/Os?

A. Microsoft Windows and RHEL

B. VMware ESX and Microsoft Windows

C. RHEL and IBM AIX

D. Sun Solaris and HP-UX

Correct Answer: B

With VMware ESX 5.5, the VMware hypervisor cannot work with LUNs that use a logical block size of 4K. When using VMware, be sure to specify Normal (512 LBs) from your XtremIO array.

References: https://gruffdba.wordpress.com/2015/08/02/4k-logical-block-size-size-fails-on-vmware/

QUESTION 3

A Linux administrator is attaching a new RHEL server to their XtremIO storage array. Which configuration setting should be changed?

A. Enable Logical Volume Manager

B. Modify the file system block size

C. Disable HBA Queue Depth

D. Disable I/O elevators

Correct Answer: B

The block size for both Oracle Cluster Registry (OCR) and Cluster Synchronization Services (CSS) voting files are 512 bytes. I/O operations to these file objects are therefore sized as a multiple of 512 bytes. This is of no consequence since the best practice with XtremIO is to create volumes with 512e formatting.

References: https://www.emc.com/collateral/white-papers/h13497-oracle-best-practices-xtremio-wp.pdf , page 22

QUESTION 4

A customer is considering XtremIO storage for their current Virtual Desktop Infrastructure (VDI) deployment. The customer wants information on the benefits of an XtremIO solution.

What are the benefits of an XtremIO solution for this environment?

A. Latency is less than 1 ms for all large I/O sizes, deduplication with compression, and scales linearly

B. Latency is less than 1 ms for large I/O sizes, deduplication and compression, and no reduction in power and cooling costs

C. Latency is less than 1 ms for small I/O sizes, scales linearly, and slightly higher cost/IOP/GB than hybrid arrays

D. Latency is less than 1 ms for small I/O sizes, deduplication and compression, and scales linearly

Correct Answer: A

Storage capacity and performance scale linearly, such that two X-Bricks supply twice the IOPS, four X-Bricks supply four times the IOPS, six X-Bricks supply six times the IOPS and eight X-Bricks supply eight times the IOPS of the single X- Brick configuration. However, the latency remains consistently low (less than 1ms) as the system scales out. The sub-

millisecond latency is validated by actual test results, and is determined according to the worst-case scenario.

References: Introduction to the EMC XtremIO STORAGE ARRAY (April 2015), page 37

QUESTION 5

A customer has the following requirements for their VDI deployment: Greater than 1000 desktops with the ability to grow 10% for the next 3 years Low latency boot volumes General purpose NAS for home directories Remote replication with the ability to snap at every write Capable of delivering 100 IOPs per desktop

Which EMC technologies should be recommended?

A. XtremIO, RecoverPoint CRR, and VPLEX only

B. VSPEX Blue, RecoverPoint CDP, and VNX

C. Isilon, VSPEX Blue, VPLEX, and RecoverPoint CDP

D. XtremIO, RecoverPoint CRR, VPLEX, and Isilon

Correct Answer: A

The EMC RecoverPoint family provides cost-effective, local continuous data protection (CDP), continuous remote replication (CRR), and continuous local and remote replication (CLR) that allows for any-point-intime data recovery and a new "snap and replicate" mechanism for local and remote replication (XRP).

Splitter-based replication, using VPLEX RecoverPoint splitter-based replication provides synchronous replication, continuous replication with fine recovery granularity (journal based), and replication for active-active datacenters.

References: Introduction to the EMC XtremIO STORAGE ARRAY (April 2015), page 52