



# E20-526<sup>Q&As</sup>

XtremIO Solutions and Design Specialist Exam for Technology Architects

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**QUESTION 1**

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/>

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**QUESTION 2**

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 3

Where is the XtremIO VSS hardware provider package installed?

- A. On all X-Bricks in the cluster
- B. On the XMS
- C. Factory-installed on the array
- D. On the backup server

Correct Answer: D

In order to use the XtremIO VSS provider it must be installed on the server where we want to do an application consistent snapshot.

References: <http://muegge.com/blog/tag/xtremio/>

### QUESTION 4

A storage administrator has 20 TB of storage provisioned to their ESXi cluster from a 10 TB XtremIO storage array. The administrator is concerned about running out of physical capacity on the XtremIO.



Which recommendation will assist the administrator?

- A. Enable VAAI TPSTUN
- B. Increase the compression ratio on the XtremIO
- C. Disable VAAI XCOPY
- D. Thick provisioned eager zero all VM virtual disks

Correct Answer: A

TPSTUN is a VAAI primitive that enables the array to notify vSphere when a LUN is running out of space due to thin provisioning over-commit. The command causes suspending all virtual machines on that LUN. XtremIO supports this VAAI primitive.

Incorrect Answers:

C: The XtremIO features for VAAI support include:

Clone Blocks/Full Copy/XCOPY

Used for copying or migrating data within the same physical array (VMware term:

HardwareAcceleratedMove).

On XtremIO, this allows VM cloning to take place almost instantaneously, without affecting user I/O on active VMs.

D: The XtremIO features for VAAI support include: Zero Blocks/Write Same

Used for zeroing-out disk regions (VMware term: HardwareAcceleratedInit).

This feature provides accelerated volume formatting.

References: <https://itzikr.wordpress.com/2015/12/16/host-configuration-for-vmware-vsphere-on-emcxtremio/>

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## QUESTION 5

Which values are required to enter a generic workload into the XtremIO Sizing Tool?

- A. Capacity, IOPs, R/W ratio
- B. IOPs, I/O size, bandwidth
- C. IOPs, bandwidth, latency
- D. Bandwidth, I/O size, latency

Correct Answer: C

IDC outlines a criteria some criteria for selecting a testing tool:

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Generate workloads



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Capture results for analysis: Throughput IOPS Latency

References: <http://emc.co/collateral/technical-documentation/h15280-euc-xendesktop-vsphere-xtremiosg.pdf>, page 87  
[http://info.xtremio.com/rs/xtremio/images/IDC\\_Flash\\_Array\\_Test\\_Guide.pdf](http://info.xtremio.com/rs/xtremio/images/IDC_Flash_Array_Test_Guide.pdf), page 7

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