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QUESTION 1

A storage administrator is configuring SAN switches and zoning to connect an eight X-Brick XtremIO array. A VMware ESXi server is hosted on a blade chassis with 16 HBA ports. In addition, the SAN is composed of two separate SAN switches.

What is the recommended XtremIO best practice for zoning?

- A. Two HBA connections per host connected to a single switch Multiple initiators/multiple targets per zone Maximum of 4 paths for each LUN per zone
- B. Connect a single storage controller to the first switch Connect a second storage controller to the second switch Single initiator/multiple targets per zone Maximum of 6 paths for each LUN per zone
- C. Connect all N1 storage controllers to the first switch Connect N2 storage controllers to the second switch Multipath all host ports to single LUNs per zone Maximum of 4 paths for each LUN per zone
- D. Multiple HBA connections per host Single initiator/single target per zone Maximum of 2 paths to each X-Brick for each initiator Each host connected to each SAN switch

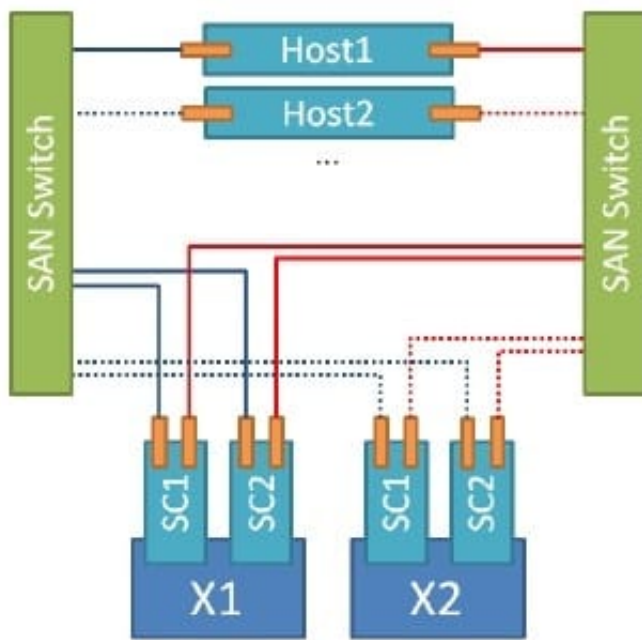
Correct Answer: B

In an environment where a host with two HBAs (VMware Best Practice) is connected to two fabrics and storage array with two Storage Controllers (EMC VNX, for example) the host will have four paths to a LUN: 2 Controllers x 2 HBAs = 4 paths

If you go to the extreme and configure your XtremIO with eight X-Brick, you have 16 controllers. Again, two HBAs per host and the max number of LUNs you can attach to an ESXi host will be 32... I understand, different OS'es may have different limits than VMware and this logic will not be applicable.

If you have hit the limit of 1024 paths per host ($1024 / 4 \text{ controllers} / 2 \text{ HBAs} = 128 \text{ LUNs}$) and need to provision more LUNs, the best way will be to re-zone the host to limit the number of X-Bricks / Controllers the host HBA can connect to.

The following diagram displays the logical connection topology for 4 paths.



Incorrect Answers:

D: Eliminate single-initiator to single-target zones.

References: <http://vstrong.info/2015/11/18/vmware-host-zoning-for-multi-x-brick-emc-xtremio-storagearray/>

QUESTION 2

Which operation is performed when an XtremIO Snapshot is created?

- A. Pointers to the ancestor metadata are created for the snapshot
- B. Space equal to the size of the ancestor is allocated to the snapshot
- C. A reserved space is created for new snapshot data
- D. A deduplication pass is immediately run against the snapshot

Correct Answer: A

When a snap is created, the following steps occur: 1) Two empty containers are created in-memory 2) Snapshot SCSI personality is pointing to the new snapshot sub-node 3) The SCSI personality which the host is using, is linked to the second node in the internal data tree

References: EMC RECOVERPOINT REPLICATION OF XTREMIO, Understanding the essentials of RecoverPoint Snap-based replication for XtremIO, page 8 <https://www.emc.com/collateral/white-papers/h14296-wp-recoverpoint-replication-of-xtremio.pdf>

QUESTION 3

At which point is data compressed when a host sends data to the XtremIO storage system?



- A. Inline before data is written to the SSD
- B. Once data is written to the storage controller
- C. After data is written to the SSDs
- D. After data is in SSD cache

Correct Answer: A

XtremIO inline data deduplication and inline data compression services are inline, all the time.

References: <https://www.emc.com/collateral/faq/faq-million-dollar-guarantee-rp-2016.pdf>

QUESTION 4

A customer has two XtremIO clusters running 3.x software release. The customer just purchased a new XtremIO array that will be installed with the latest 4.x software release.

What is the minimum number of XtremIO Management Server(s) that will be required to manage all clusters?

- A. 1
- B. 2
- C. 3
- D. 4

Correct Answer: C

The system operation is controlled via a stand-alone dedicated Linux-based server, called the XtremIO Management Server (XMS). A single XMS can manage multiple clusters. Multiple cluster management is supported from version 4.0 and up. System version 4.0 supports up to eight clusters managed by an XMS in a given site.

References: Introduction to the EMC XtremIO STORAGE ARRAY (April 2015), page 48

QUESTION 5

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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