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XtremIO Solutions and Design Specialist Exam for Technology Architects

EMC E20-526

Version Demo

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QUESTION NO: 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

ANSWER: C

Explanation:

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 NO: 2

A customer is interested in purchasing XtremIO for their mission critical database applications that require the lowest possible response times. They have two data centers in which they want to introduce All-Flash arrays. However, they need a way to maintain true active/active access to all databases and application LUNs across both sites.

What is the recommended solution to address the requirements?

- A. ViPR Controller with XtremIO
- B. RecoverPoint with XtremIO
- C. VPLEX Metro with XtremIO
- D. ViPR SRM with XtremIO

ANSWER: C

Explanation:

The EMC VPLEX family is the next-generation solution for data mobility and access within, across and between data centers.

VPLEX supports two configurations, local and metro. In the case of VPLEX Metro with the optional VPLEX Witness and Cross-Connected configuration, applications continue to operate in the surviving site with no interruption or downtime. Storage resources virtualized by VPLEX cooperate through the stack, with the ability to dynamically move applications and data across geographies and service providers.

QUESTION NO: 3

You need to design a VDI solution for a customer. Which best practices should be used for VDI environments?

- A. Align data on 4 kB boundaries. Put persona and user data on XtremIO LUNs
- B. Align data on 4 kB boundaries. Allocate multiple XtremIO LUNs to each host
- C. Align data on 8 kB boundaries. Put the master VM image on an XtremIO LUN
- D. Align data on 8 kB boundaries. Put all VDI-related data on one large LUN

ANSWER: C

QUESTION NO: 4

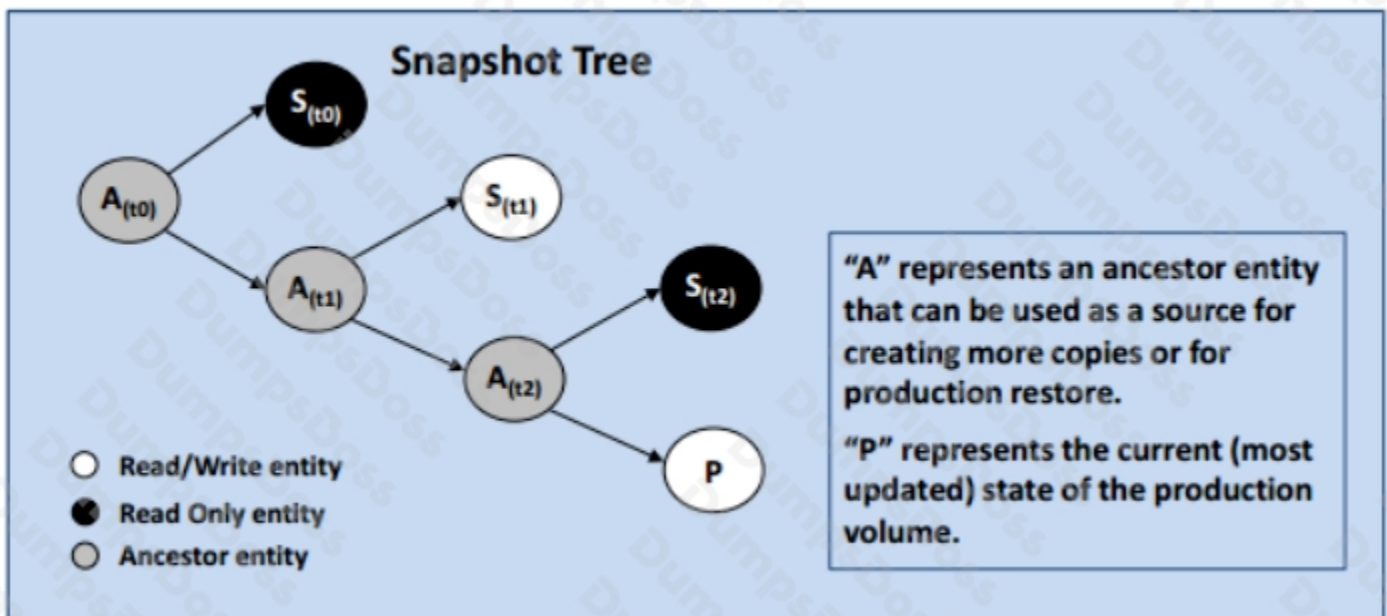
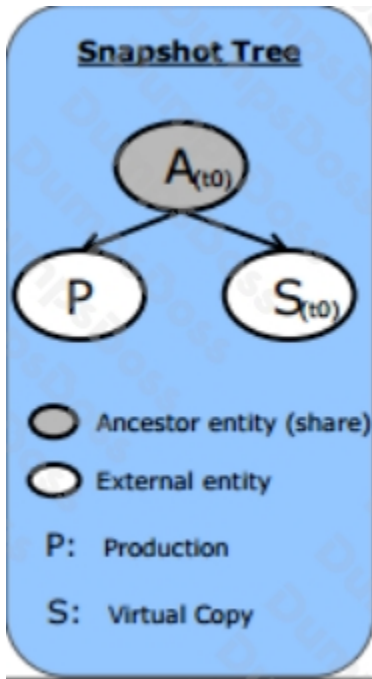
Which actions are initiated when a snapshot is created on an XtremIO array?

- A. Parent object becomes read only and two auxiliary volumes are created
- B. Parent object remains writeable and one auxiliary volume is created
- C. Parent object remains writeable and two auxiliary volumes are created
- D. Parent object becomes read only and one auxiliary volume is created

ANSWER: A

Explanation:

When a copy is created, the volume's existing metadata becomes an "ancestor" entity (parent object) that is shared between the production volume and the copy. New empty containers are created for subsequent changes to both the production volume and the virtual copy volume. Therefore, the act of creating a copy is instantaneous and involves no data or metadata copies.



References: <https://www.emc.com/collateral/white-paper/h13035-wp-introduction-to-xtremio-snapshots.pdf>, pages 18

QUESTION NO: 5

You have conducted a meeting with a company's Chief Technology Officer (CTO). The CTO wants an XtremIO solution to meet their business needs. The CTO wants you to review the proposed solution with their desktop administrator to identify any additional requirements.

What are two key considerations to discuss with the desktop administrator?

- A. Rapid desktop deployment and operational ease of use
- B. Application response time and rapid boot times
- C. Sufficient capacity and performance
- D. Ease of management and ability to customize end-user desktops

ANSWER: B C

QUESTION NO: 6

When using XtremIO storage with Solaris (SPARC), what is the EMC recommended I/O size that will deliver sequential I/O more efficiently to XtremIO?

- A. 1 MB
- B. 2 MB
- C. 4 MB
- D. 8 MB

ANSWER: C

Explanation:

EMC recommended setting for Solaris include that the `/etc/system` file be modified to include the following parameter:

* Set maximum IO size

```
set maxphys = 0x400000
```

This also requires increase of the maximum I/O size for the disk driver. The corresponding entry and file for this change are different for different Solaris versions, as follows:

For Solaris 10 (SPARC):

File: `/kernel/drv/ssd.conf`

Setting: `ssd_max_xfer_size=0x400000;`

For Solaris 10 (x86):

File: `/kernel/drv/sd.conf`

Setting: sd_max_xfer_size=0x400000;

Etc.

References:EMC Host Connectivity Guide for Oracle Solaris, page 167

<https://www.emc.com/collateral/TechnicalDocument/docu5132.pdf>