E20-526^{Q&As}

XtremIO Solutions and Design Specialist Exam for Technology Architects

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QUESTION 1

A customer has a requirement to replicate their VDI to a newly purchased data center located 5 miles away. They require 10-day retention at each site and a continuous replication RPO. However, they want to have the same storage platform at each site. They have a limited budget but need to meet their requirements.

Which solution should be recommended to the customer?

A. XtremIO and OpenStack

B. XtremIO with VPLEX and RecoverPoint

C. XtremIO and RecoverPoint

D. XtremIO and MirrorView/A replication

Correct Answer: C

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).

Native replication support for XtremIO The native replication support for XtremIO is designed for high-performance and low-latency applications that provides a low Recovery Point Objective of one minute or less and immediate RTO.

The benefits include: Block level remote or local replication Asynchronous local and remote replication Policy-based replication to enable optimizing storage and network resources, while obtaining desired RPO and RTO Application-aware integration

Incorrect Answers:

A: OpenStack is the open platform for managing private and public clouds.

B: XtremIO with VPLEX and RecoverPoint is a valid solution, but it would be more costly.

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

QUESTION 2
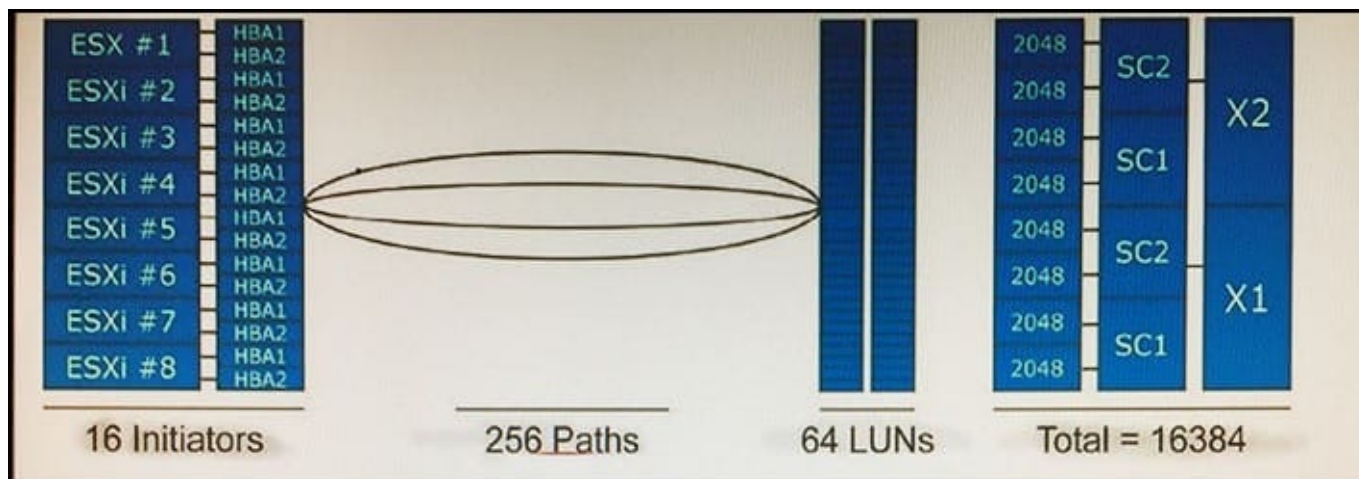
As shown in the exhibit, a customer\\'s environment is configured as follows: Dual X-Brick cluster 8 ESXi hosts with 2 HBAs Each ESXi hosts has 8 LUNs Each LUN is visible through 4 paths

What should be the host queue depth setting per path?

A. 64

B. 128

C. 256

D. 1024

Correct Answer: C

The queue depth is per LUN, and not per initiator. Here there are 64 LUNs, each visible through 4 paths, which would indicate that 256 is a good choice for the queue depth setting.

Note: As a general advice, for optimal operation with XtremIO storage, consider the following: Set the queue depth to 256.

References: https://www.emc.com/collateral/white-paper/h14583-wp-best-practice-sql-server-xtremio.pdf

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QUESTION 3

A customer has recently deployed an XtremIO 20 TB two X-Brick cluster to run an existing instance of Oracle RAC previously leveraging VNX for back-end storage. The application environment uses a block size of 1 MB. Multiple tables are in use with the PARALLEL_DEGREE_POLICY variable set to AUTO.

The customer wants your help with tuning the DB_FILE_MULTIBLOCK_READ_COUNT parameter for best performance with XtremIO. Which values should be recommended for tuning the DB_FILE_MULTIBLOCK_READ_COUNT parameter in the Oracle RAC environment?

A. 8 or 16

B. 24 or 32

C. 64 or 128

D. 256 or 512

Correct Answer: C

Oracle Database performs I/O on data files in multiples of the database block size (db_block_size), which is 8KB by default. The default Oracle Database block size is optimal on XtremIO. XtremIO supports larger block sizes as well. In the case of multiblock I/O (e.g., table/index scans with access method full), one should tune the Oracle Database initialization parameter db_file_multiblock_read_count to limit the requests to 128KB. Therefore, the formula for db_file_multiblock_read_count is: db_file_multiblock_read_count = 128KB / db_block_size

In our case the block size is 1 MB, so the formula db_file_multiblock_read_count is 1 MB/ 8KB = 1024/8 = 128

References: https://www.emc.com/collateral/white-papers/h13497-oracle-best-practices-xtremio-wp.pdf, page 21

QUESTION 4

Which level of granularity does XtremIO deduplication run?

A. Variable 8 kB

B. Variable 32 kB

C. Fixed 8 kB

D. Fixed 32 kB

Correct Answer: C

EMC XtremIO(All-Flash) : SAN, inline deduplication, 8K fixed chunk size;

References: https://www.linkedin.com/pulse/deduplication-fake-reality-mike-uzan

QUESTION 5

A customer has purchased a two X-Brick XtremIO array with a physical XtremIO Management Server (XMS). The customer plans to use all Fibre Channel connectivity in the environment.

What are the physical connectivity requirements for the cluster?

A. 1 Copper Ethernet connection, 4 Fibre Channel Optical connections

B. 3 Copper Ethernet connections, 8 Fibre Channel Optical connections

C. 4 Copper Ethernet connections, 16 Fibre Channel Optical connections

D. 5 Copper Ethernet connections, 8 Fibre Channel Optical connections

Correct Answer: B

EMC XTREMIO 4.0 SYSTEM SPECIFICATIONS

Host Connectivity (Based on number of X-Bricks in the array)	Starter X-Brick	1 X-Brick	2 X-Brick Cluster	4 X-Brick Cluster	6 X-Brick Cluster	8 X-Brick Cluster
Fibre Channel Ports (8Gbps)	4	4	8	16	24	32
iSCSI Ethernet Ports (10Gbps)	4	4	8	1G	24	32

Management	Starter X-Brick	1 X-Brick	2 X-Brick Cluster	4 X-Brick Cluster	6 X-Brick Cluster	8 X-Brick Cluster
Ethernet Ports (1Gbps)	2	2	4	8	12	16

References: http://www.aecl.com/AECWeb/media/Assets/PDF/h12451-xtremio-4-system-specificationsss.pdf

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