E20-526 Q&As

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QUESTION 1

What is the maximum speed of the Fibre Channel ports on an XtremIO storage controller?

A. 2 Gb/s

B. 4 Gb/s

C. 8 Gb/s

D. 16 Gb/s

Correct Answer: C

Each Storage Controller includes two 8Gb/s Fibre Channel (FC) ports.

References: Introduction to the EMC XtremIO STORAGE ARRAY (April 2015), page 8

QUESTION 2

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	16	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

QUESTION 3

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 4

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 5

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