



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

XtremIO Solutions and Design Specialist Exam for Technology Architects

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### QUESTION 1

When using a 10 TB single X-Brick, what is the minimum amount of data that should be written during the Fill phase of the PoC Toolkit?

- A. 10 TB
- B. 15 TB
- C. 20 TB D. 30 TB

Correct Answer: C

Per IDC's best practices the toolkit fills the array 2x.

References: <https://community.emc.com/docs/DOC-35014>

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### QUESTION 2

Who developed the framework for testing All-Flash arrays that is used in the XtremIO PoC?

- A. EMC
- B. Seagate
- C. Micron
- D. IDC

Correct Answer: D

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

\*

Generate workloads

\*

Capture results for analysis: Throughput IOPS Latency

Etc.

References: [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)

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### QUESTION 3

Based on XtremIO best practice, which byte sector size should be used for volumes hosting Oracle database files?

- A. 256



B. 512

C. 1024

D. 4096

Correct Answer: D

Architecting a database on an All Flash Array (AFA) like EMC's XtremIO is best done by reviewing practices to optimize I/O performance. One consideration is the use of Advanced Format and how it impacts the performance of the database Redo logs. Advanced Format refers to a new physical sector size of 4096 bytes (4KB) replacing original 512 byte standard.

References: [https://community.emc.com/community/connect/everything\\_oracle/blog/2014/07/18/xtremiobest-practices-advanced-format-512e-and-native-modes](https://community.emc.com/community/connect/everything_oracle/blog/2014/07/18/xtremiobest-practices-advanced-format-512e-and-native-modes)

#### QUESTION 4

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:  $\text{db\_file\_multiblock\_read\_count} = 128\text{KB} / \text{db\_block\_size}$

In our case the block size is 1 MB, so the formula db\_file\_multiblock\_read\_count is  $1\text{ MB} / 8\text{KB} = 1024/8 = 128$

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

#### QUESTION 5

A customer has a group of applications that need storage which can provide low response times. The total I/O requirements are 75,000 IOPs with a 4 kB block size. They will have 500 LUNs and need to keep 30 daily snapshots of each LUN.

What is the smallest XtremIO configuration that will meet their needs?



- A. 1 cluster with 2 X-Bricks
- B. 1 cluster with 4 X-Bricks
- C. 2 clusters with 1 X-Brick each
- D. 2 clusters with 2 X-Bricks each

Correct Answer: A

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