



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

XtremIO Solutions and Design Specialist Exam for Technology Architects

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### QUESTION 1

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 2

Which part of the XtremIO architecture do host ports use to access an XtremIO volume?

- A. FA
- B. Initiator
- C. Target
- D. Zone

Correct Answer: D

All XtremIO's enterprise features (including Inline Data Reduction, snapshots, XDP, HA, etc.) have been developed as part of the scale-out architecture. All data and metadata are evenly distributed across the entire cluster. I/Os are admitted to the array via all the host ports, utilizing SAN zones and multi-pathing.

References: Introduction to the EMC XtremIO STORAGE ARRAY (April 2015), page 39

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### QUESTION 3

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

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#### QUESTION 4

What are common storage array mechanisms?

- A. Log structuring and RAID
- B. Post-processing and metadata logging
- C. RAID and metadata log structuring
- D. Metadata logging and RAID

Correct Answer: B

XtremIO's snapshot technology is implemented by leveraging the content-aware capabilities of the system (Inline Data Reduction), optimized for SSD media, with a unique metadata tree structure.

XtremIO leverages a proprietary flash-optimized data protection algorithm (XtremIO Data Protection or XDP), which provides performance that is superior to any existing RAID algorithm.

References: Introduction to the EMC XtremIO STORAGE ARRAY (April 2015), page 33

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#### QUESTION 5

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

Correct Answer: C

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

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