

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

XtremIO Solutions and Design Specialist Exam for Technology Architects

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**QUESTION 1**

A customer has a workload with the following attributes: Generates 250,000 IOPs 100 TB in logical capacity Read/Write ratio of 1:1 Random workload with 8 kB I/O size Deduplication ratio of 2:1 Compression ratio of 2:1

Which XtremIO solution should be recommended to the customer?

- A. 1x40 TB X-Brick
- B. 2x10 TB X-Brick
- C. 3x20 TB X-Brick
- D. 4x10 TB X-Brick

Correct Answer: C

XtremIO clusters with 60 TB of physical usable flash capacity can now logically support 360 TB or more of capacity at typical 6:1 data reduction (deduplication plus compression) ratios. Here we have a 4:1 reduction ratio, so 25 TB would be enough. The 250,000 IOP requirements indicates that we need at least two Bricks.

System	Raw Capacity	Read/Write IOPS	Read IOPS
Starter X Brick	5 TB	150K	250K
1 X-Brick	10, 20, or 40 TB	150K	250K
2 X-Brick Cluster	20, 40, or 80 TB	300K	500K
4 X-Brick Cluster	40, 80, or 160 TB	600K	1M
6 X-Brick Cluster	120 or 240 TB	900K	1.5M
8 X-Brick Cluster	160 or 320 TB	1.2M	2M

References: <https://store.emc.com/en-us/Product-Family/EMC-XtremIO-Products/EMC-XtremIO-All-FlashScale-Out-Array/p/EMC-XtremIO-Flash-Scale-Out>

**QUESTION 2**

A customer is interested in transitioning their traditional infrastructure to the Cloud by implementing ViPR software-defined storage in an XtremIO environment. Which capabilities will EMC ViPR software-defined storage provide to XtremIO?

- A. Delivers SaaS Centralized management and monitoring Chargeback and billing capabilities
- B. Chargeback reporting capability Centralizes reactive monitoring capability Policy-driven configuration management
- C. Automatically grows storage volumes Slows growth of data Centralized auto-deletes of aging files
- D. Creates virtual storage pools Automates disaster recovery Replaces chargeback capabilities

Correct Answer: A

EMC ViPR Controller is a software-defined storage platform that abstracts, pools and automates a data center's underlying physical storage infrastructure. It provides data center administrators with a single control plane for heterogeneous storage systems.

ViPR enables software-defined data centers by providing features including:

\* Comprehensive and customizable platform reporting capabilities that include capacity metering, chargeback, and performance monitoring through the included ViPR SolutionPack

References: Introduction to the EMC XtremIO STORAGE ARRAY (April 2015), page 60

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### QUESTION 3

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>

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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

## QUESTION 5

What is considered typical performance for an XtremIO single X-Brick cluster?

- A. Small block writes: 200k-250k IOPs. Large block reads: up to 2.5 GB/s
- B. Small block writes: 200k-250k IOPs. Large block writes: up to 2.5 GB/s
- C. Small block reads: 200k-250k IOPs. Large block writes: up to 2.5 GB/s
- D. Small block reads: 200k-250k IOPs. Large block reads: up to 2.5 GB/s

Correct Answer: C

Choose an EMC XtremIO system and scale out linearly by adding more XtremIO X-Bricks.

System	Raw Capacity	Read/Write IOPS	Read IOPS
Starter X-Brick	5 TB	150K	250K
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