# E20-526 Q&As

XtremIO Solutions and Design Specialist Exam for Technology Architects

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**QUESTION 1**

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 2**

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 3**

When using the XtremIO PoC Toolkit, what is the purpose of the Age phase?

A. Continuously write to a specific range of logical block addresses to test Flash durability

B. Overwrite each LUN multiple times to ensure they contain all unique data

C. Test the performance of the All-Flash array with non-production static data

D. Scatter writes across the entire array to simulate ordinary use of the system

Correct Answer: D

Proceed with filesystem aging by doing random overwrite cycles.

**QUESTION 4**

You have been asked to design an XtremIO storage array solution that will be used for two large applications workloads. One overload will generate approximately 150,000 write IOPs with an average 4 kB I/O size. The second write workload will have an average I/O size of 128 kB and will generate approximately 2 GB/s of throughput.

At a minimum, how many X-Bricks are needed in a single cluster to meet this requirement?

A. 2

B. 4

C. 6

D. 8

Correct Answer: A

Second write workload IOPS = 2 GB/s divided by 128 kB = 2 x 1,073,741,824 / (128 x 1,024) = 16384

IOPs.

Total IOPS required would be 150,000, from the first workload, plus 16384, totaling 166384.

A 2 X-Brick cluster provides 300K Read/write IOPS so it would be adequate.

Storage capacity and performance scale linearly, such that two X-Bricks supply twice the IOPS, four X-

Bricks supply four times the IOPS, six X-Bricks supply six times the IOPS and eight X-Bricks supply eight

times the IOPS of the single X- Brick configuration.

Note: 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 |
| 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 5**

A customer wants to use the Cinder driver to manage XtremIO storage in an OpenStack environment. What is a potential concern?

A. Compression is not supported

B. Deduplication is not supported

C. Snapshots of snapshots are not supported

D. Volume expansion cannot be reversed

Correct Answer: D

Incorrect Answers:

B: OpenStack Cinder features include:

Clone a volume: With inline deduplication, compression and thin provisioning.

C, D: EMC XtremIO OpenStack Block Storage driver, supported operations: Create, delete, clone, attach, and detach volumes Create and delete volume snapshots Create a volume from a snapshot Copy an image to a volume Copy a volume to an image Extend a volume

References: https://docs.openstack.org/juno/config-reference/content/XtremIO-cinder-driver.html https://www.emc.com/collateral/data-sheet/h13287-ds-xtremio-openstack.pdf