

E20-526^{Q&As}

XtremIO Solutions and Design Specialist Exam for Technology Architects

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QUESTION 1

A storage administrator wants to re-use some of their XtremIO thin provisioned disks attached to a Microsoft Windows 2012 host. However, the administrator notices that "Quick Format" of the drives is taking a long time to complete. This has an impact on the overall performance.

What should be recommended to minimize the performance impact?

- A. Disable the I/O elevator feature on the Windows host while formatting
- B. Temporarily disable the UNMAP feature on the Windows host during formatting
- C. Adjust the execution throttle value on the Windows host
- D. Change the disk format to thick provisioned

Correct Answer: B

It is related to TRIM/UNMAP, which is enabled per default in Server 2012(R2).

References: <https://serverfault.com/questions/679211/quick-format-of-lun-in-server-2012r2-hosted-on-a-thin-provisioned-san-vol-take>

QUESTION 2

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
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 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

When installing a physical XtremIO Management Server (XMS) station, which requirement must be met?

- A. XMS must be able to access one of the management ports on one X-Brick storage controller in the cluster
- B. XMS must be able to access only the management ports on the first X-Brick's storage controllers
- C. XMS must be able to access all management ports on the X-Brick storage controllers
- D. XMS must be able to access all management ports on at least two X-Brick storage controllers in the cluster

Correct Answer: C

The XMS must access all management ports on the X-Brick Storage Controllers, and must be accessible by any GUI/CLI client host machine. References: Introduction to the EMC XtremIO STORAGE ARRAY (April 2015), page 48

QUESTION 5

Table 1. Sustained remote replication throughput per RPA (MB/s)

Configuration	IP		Over FC
	Without compression	With compression	
Between XtremIO arrays	80	240	300
XtremIO to non-XtremIO	80	90	90
Continuous replication from non-XtremIO to XtremIO	110	300	300
Snap-based replication from VNX to XtremIO	110	150	150

Refer to the Exhibit.

A customer has the following XtremIO environment: Read/write ratio is 3:1 I/O size is 8K Write pattern is random Data is compressible

If an application generates 100,000 IOPS of traffic, how many RPAs are needed to replicate the traffic from one XtremIO array to another XtremIO array over IP?

- A. 1
- B. 2
- C. 3
- D. 4

Correct Answer: C

Required bandwidth= 100,000 * 8 * 1024 bytes
 Provided bandwidth between XtremIO arrays with compression over Fiber Channel: 300 * 1024 * 1024 bytes

Required number of RPAs: $100,000 * 8 * 1024 / (300 * 1024 * 1024) = 800,000 / (300 * 1024) = 2.6$. Three RPAs would be enough.

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