# E20-526 Q&As

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

**QUESTION 2**

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 3**

An XtremIO administrator is having a problem with performance and is troubleshooting the issue. What is an accurate statement about I/O transfers?

A. As I/O size increases, IOPs increase, and latency increases

B. As I/O size increases, IOPs decrease, and bandwidth increases

C. As I/O size decreases, IOPs increase, and bandwidth increases

D. As I/O size decreases, IOPs decrease, and latency increases

Correct Answer: A

Large block I/O by nature incurs higher latency.

References: Introduction to the EMC XtremIO STORAGE ARRAY (April 2015), page 6

**QUESTION 4**

How can REST API commands be run to manage and monitor an XtremIO cluster?

A. From the REST API CLI built into each X-Brick

B. From the REST API GUI built into each X-Brick

C. From a third-party GUI

D. From the REST API tab in the XMS GUI

Correct Answer: C

The XtremIO\\'s RESTful API allows HTTPS-based interface for automation, orchestration, query and provisioning of the system. With the API, third party applications can be used to control and fully administer the array.

Normally you would access the API using some form of programming/scripting language, such as Python or Perl. However for the purposes of learning or testing concepts there are a number of tools that work better, such as HTTPRrequester and curl.

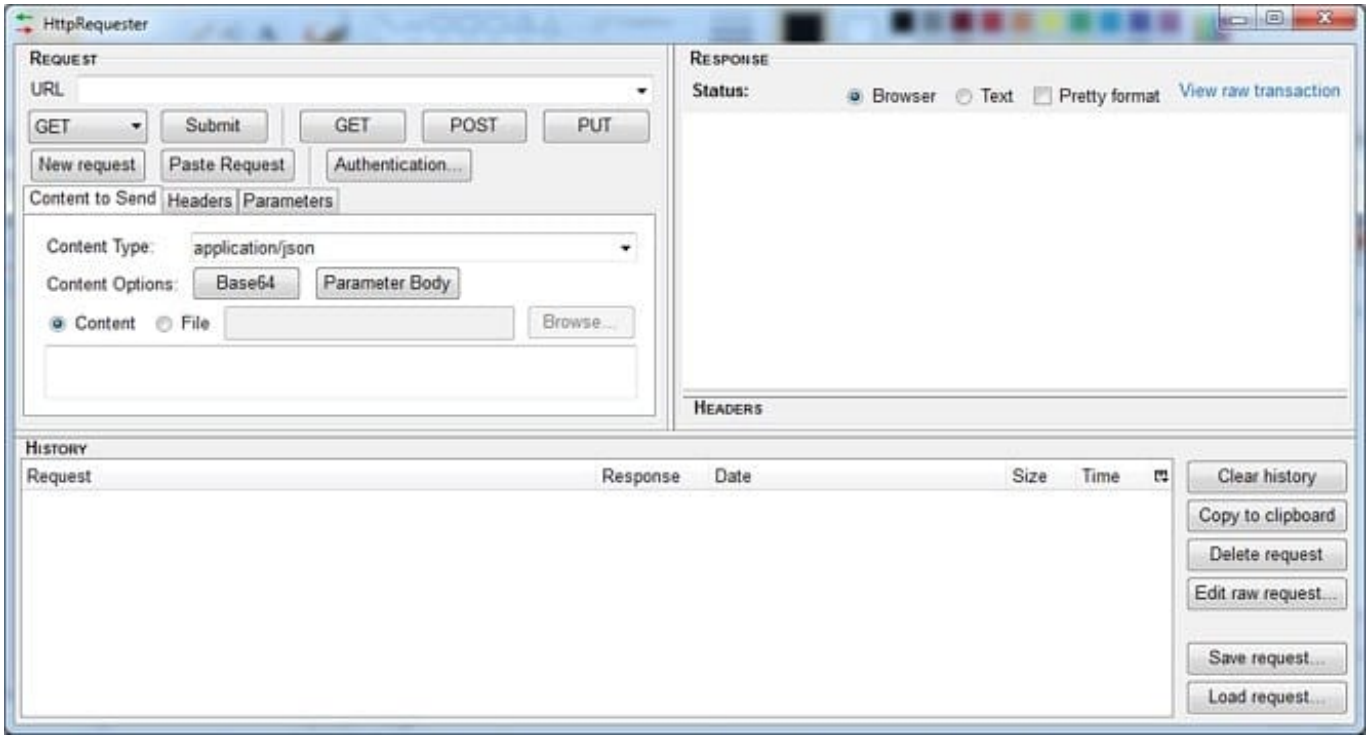
*

Curl is a command-line tool that exists in all Linux distributions, and is available for most other Unix OSes as well as Windows. To use curl to access XtremIO you\\'ll need to pass it a few options, such as the username/password to access the array (any valid account on the XtremIO XMS will work), the URL of the API, and potentially a few options such as -k to tell curl not to validate the SSL certificate (presuming you don\\'t have a valid certificate installed), and -s (silent) to stop curl displaying it\\'s progress as it downloads the response.

*

HTTPRequester is a browser extension that is available for both Chrome and Firefox. As with for curl, you\\'ll need to provide a username/password, which is done by clicking on the

"Authentication..." box, which adds two boxes below the URL for the username and the password.




References: https://blog.docbert.org/using-the-xtremio-rest-api-part-1/

**QUESTION 5**

A new 500 GB VM disk is created on a database that resides on an XtremIO LUN. The VMware administrator plans to

provision the disk using the thick provisioned eager zeroed format.

How much physical XtremIO capacity will be allocated during this process?

A. 5 GB

B. 10 GB

C. 50 GB

D. None

Correct Answer: D

XtremIO storage is natively thin provisioned, using a small internal block size. This provides fine-grained resolution for the thin provisioned space. All volumes in the system are thin provisioned, meaning that the system consumes capacity only when it is actually needed. XtremIO determines where to place the unique data blocks physically inside the cluster after it calculates their fingerprint IDs. Therefore, it never preallocates or thick-provisions storage space before writing.

References: Introduction to the EMC XtremIO STORAGE ARRAY (April 2015), page 22