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

XtremIO Solutions and Design Specialist Exam for Technology Architects

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**QUESTION 1**

Which multipathing software is supported by XtremIO?

A. PowerPath/VE and NMP on ESXi hosts

B. MPIO on non-clustered Microsoft Windows hosts only

C. PowerPath/VE on Microsoft Windows VMs hosted by ESXi

D. Native MPIO on IBM AIX clusters

Correct Answer: A

Noting the inefficiencies in VMware\\'s NMP driver, EMC developed a set of drivers specifically designed to overcome these limitations and improve the performance and reliability of the data passing between an array and a server. EMC developed the PowerPath family of products optimized specifically for Linux, Microsoft Windows, and UNIX Operating Systems as well as PowerPath/VE for VMware vSphere and Microsoft Hyper-V hypervisors.

PowerPath is installed on hosts to provide path failover, load balancing and performance optimization VPLEX engines (or directly to the XtremIO array if VPLEX is not used).

Note: VMware, with the cooperation of its storage partners, developed a Native Multipathing Plug-in (NMP). VMware NMP was designed to distribute the load over all the available paths and provide failover protection in the case of path, port or HBA failure, but it has not been fully optimized to work with the controllers in a storage systems. VMware\\'s NMP Round Robin policy does not have the intelligence that PowerPath has as PowerPath uses testing and diagnostics to continually monitor an environment to determine the optimal path for queuing requests and will adapt to current conditions.

References: https://www.emc.com/collateral/analyst-reports/emc-taneja-group-powerpath-tb.pdf

**QUESTION 2**

A customer has a large ESX server environment they are considering deploying to XtremIO for a VDI implementation. To determine a baseline of the environment, you are proceeding with documenting each server\\'s CPU, NIC, and disk utilization statistics. The customer has provided you with direct CLI access to the servers to conduct this assessment.

Which utility should be used to monitor these performance parameters?

A. esxtop

B. resxtop

C. top

D. iostat

Correct Answer: B

resxtop is a command to retrieve performance statistics. This command is included in vSphere command line interface (CLI) and is part of the vSphere Management Assistant (vMA), which is an equivalent to esxtop that runs only inside an ESX service console.

Incorrect Answers:

A: esxtop runs only inside an ESX service console.

D: Use the iostat command to report statistics about disk input and output, and to produce measures of throughput, utilization, queue lengths, transaction rates, and service time.

References: www.emc.com/collateral/TechnicalDocument/docu5265.pdf, page 22

**QUESTION 3**

A customer is considering a six brick dispersed cluster using 3?0U racks. The customer wants advice on racking the InfiniBand switches. Rack 1 (left) contains X-Bricks 1 and 2 Rack 2 (middle) contains X-Bricks 3 and 4 Rack 3 (right) contains X-Bricks 5 and 6

Which recommendation should be provided?

A. Install the InfiniBand switches in Rack 1 with a 1U placeholder between the switches.

B. Install an InfiniBand switch in Racks 1 and 3 with a 1U placeholder between the X-Bricks.

C. Install the InfiniBand switches in Rack 2 with a 1U placeholder between the switches.

D. Install the InfiniBand switches in Rack 3 with a 2U placeholder between the switches

Correct Answer: B

**QUESTION 4**

You have worked with a customer to successfully evaluate their existing server environment using the MiTrend data analysis tool. You have collected the resulting reports and aggregated the data set. You determine the customer\\'s application workload generates a 50:50 read/write ratio with an average of 500K IOPs during peak business hours.

Which recommended XtremIO model meets the customer\\'s needs?

A. Starter X-Brick cluster

B. Single X-Brick cluster

C. Two X-Brick cluster

D. Four X-Brick cluster

Correct Answer: D

| 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**

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.
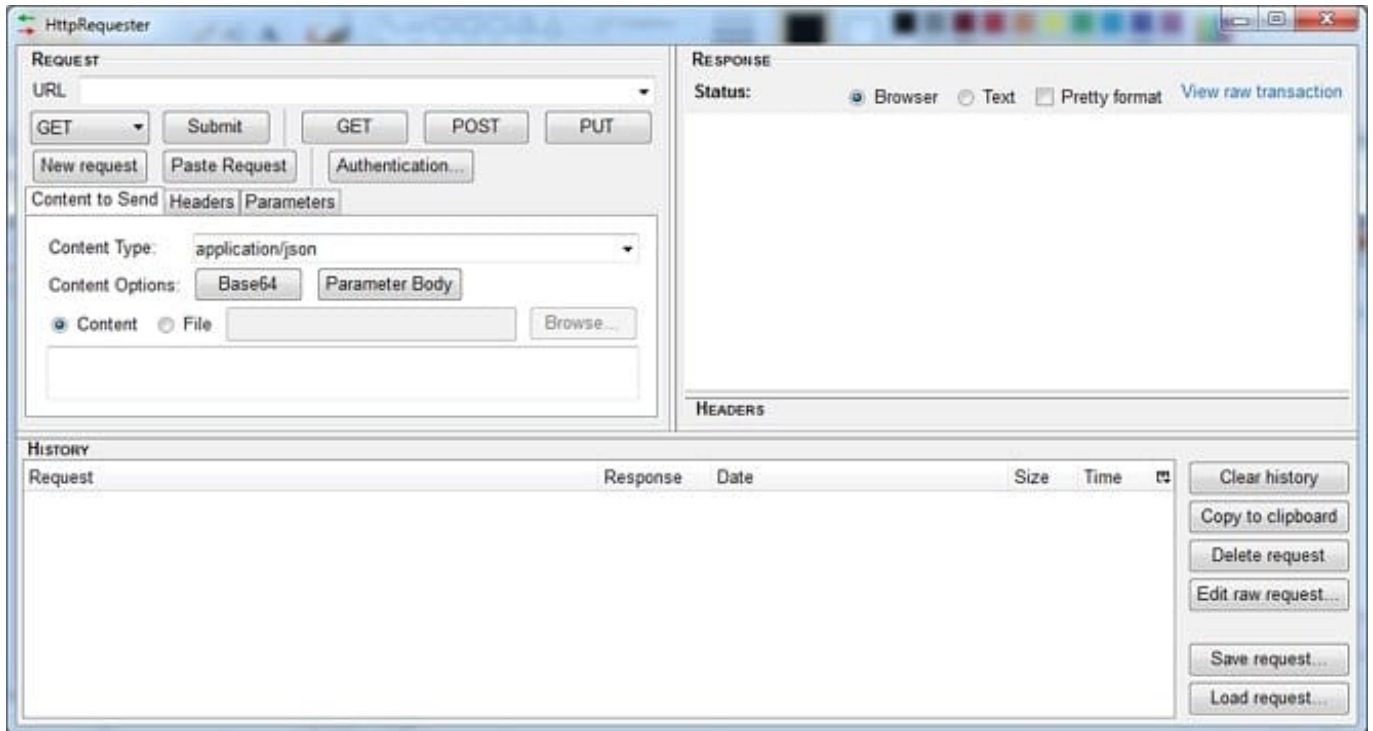
*

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/