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E20-526 Exam

XtremIO Solutions and Design Specialist Exam for Technology Architects,EMC,67

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DEMO VERSION (LIMITED CONTENT)

Questions & Answers

Version: 8.0

Question: 1

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

Answer: D

Explanation:
Proceed with filesystem aging by doing random overwrite cycles.

Question: 2

A user attempts to create a quorum disk for a host cluster. Volume parameters are:
However, the volume creation fails. What caused the process to fail?

A. Quorum disks cannot have an 8kB block size
B. Volume size is too small
C. Volume name is invalid
D. XtremIO volumes cannot be quorum disks

Answer: B

Explanation:
The volume size must be specified in MB, GB, TB, and not in KB.

Question: 3

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

Answer: A

Explanation:
Second write workload IOPS = 2 GB/s divided by 128 kB = 2 x1,073,741,824 / (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-Flash-Scale-Out-Array/p/EMC-XtremIO-Flash-Scale-Out

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

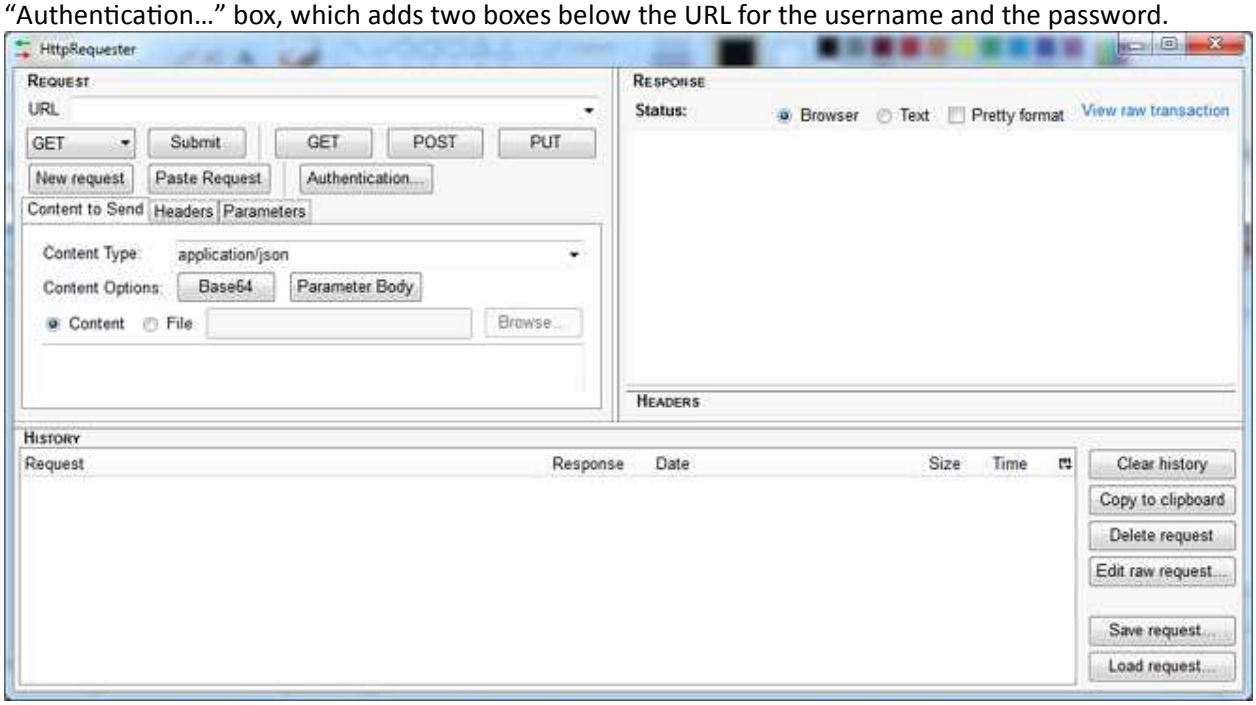
Answer: C

Explanation:
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

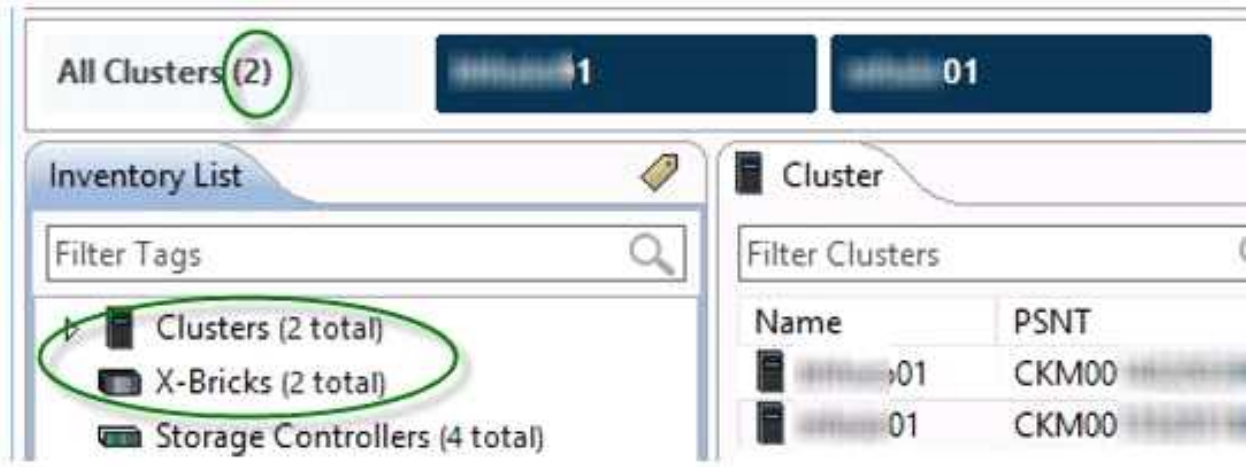
How should a storage administrator navigate to different XtremIO clusters from the XMS GUI if the administrator has more than one cluster managed by the same XMS?

A. Click the Cluster Name on the Menu bar near the top of the screen
B. Click the Inventory List button on the Menu bar
C. Click the Administration tab and locate the Cluster Name
D. Click the Cluster Name on the Status bar at the bottom of the screen

Answer: B

Explanation:

From the menu bar, the Inventory icon is to be clicked to display the Inventory workspace. This workspace takes the place of the Hardware workspace in earlier versions of the XtremIO GUI. With the All Clusters tab selected, we can see a list of all the hardware elements in the managed clusters.



Note: With time, additional clusters can be added to a deployed XMS. In addition, a cluster can be easily moved from one XMS to another. All management interfaces (GUI/CLI/REST) offer inherent multi-cluster management capabilities. Multiple cluster management is supported from version 4.0 and up.

References:

https://community.emc.com/community/connect/everything_oracle/blog/2015/08/27/xtremio-40-multi-array-management

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