



E20-526^{Q&As}

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QUESTION 1

A customer has recently purchased an XtremIO 10 TB single X-Brick cluster for an implementation of Oracle RAC. The customer wants your help with integrating Oracle with their new XtremIO cluster. The customer has three DATA disk groups, two REDO disk groups, and four FRA disk groups.

How many XtremIO LUNs should be assigned to the FRA disk groups?

- A. 2
- B. 4
- C. 6
- D. 8

Correct Answer: D

Best practice is to use four LUNs for the DATA disk group to allow the host to use simultaneous threads. The REDO and FRA disk groups should use two LUNs each.

References: https://community.emc.com/community/connect/everything_oracle/blog/2016/03/31/bestpractises-of-vblock-on-xtremio-with-oracle-databases-part-i

QUESTION 2

Where is the XtremIO VSS hardware provider package installed?

- A. On all X-Bricks in the cluster
- B. On the XMS
- C. Factory-installed on the array
- D. On the backup server

Correct Answer: D

In order to use the XtremIO VSS provider it must be installed on the server where we want to do an application consistent snapshot.

References: <http://muegge.com/blog/tag/xtremio/>

QUESTION 3

At which point is data compressed when a host sends data to the XtremIO storage system?

- A. Inline before data is written to the SSD
- B. Once data is written to the storage controller



C. After data is written to the SSDs

D. After data is in SSD cache

Correct Answer: A

XtremIO inline data deduplication and inline data compression services are inline, all the time.

References: <https://www.emc.com/collateral/faq/faq-million-dollar-guarantee-rp-2016.pdf>

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 HTTPRequester and curl.

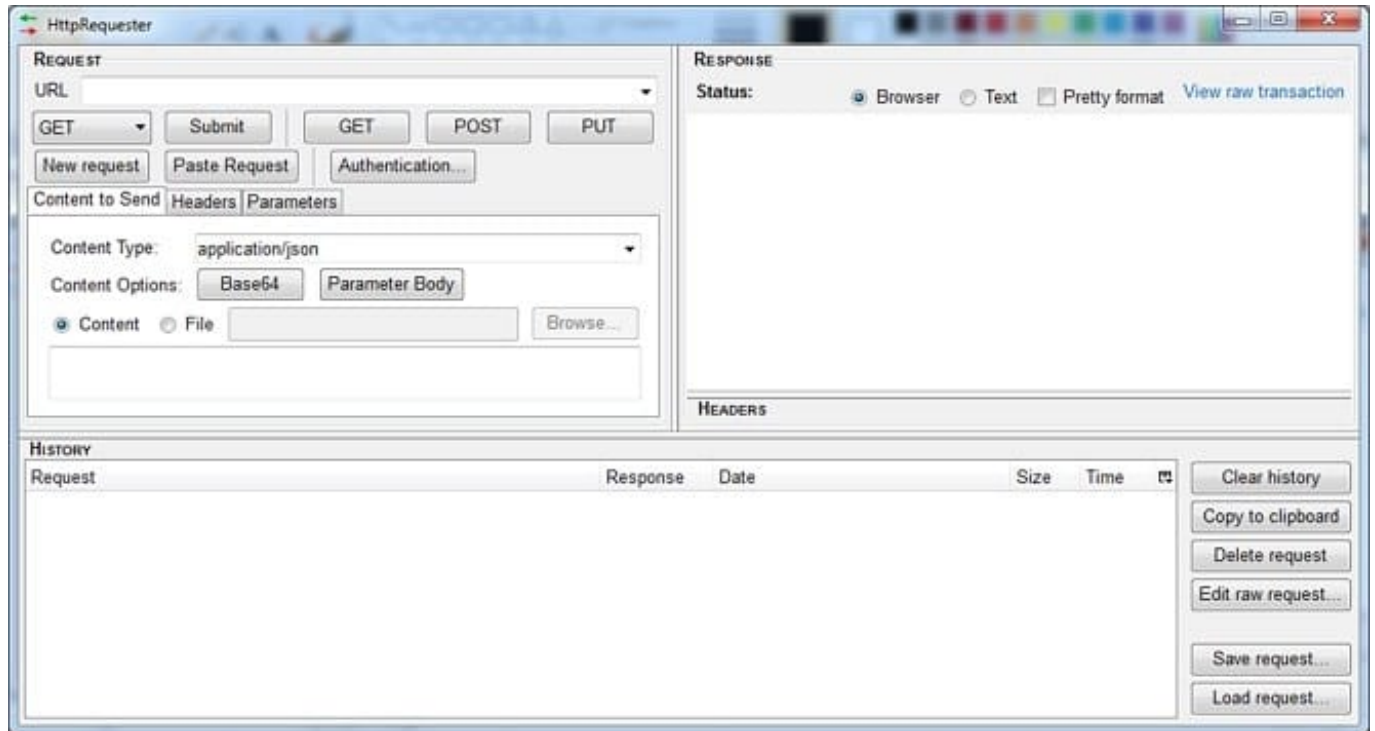
*

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 customer currently uses XtremIO native remote replication with four RPAs and a 1 GB WAN link to asynchronously protect all production data. Management has decided that all data stored on the XtremIO must now be protected at the disaster recovery site by synchronous replication.

How can this be achieved?

- A. Set the Link Policy to Synchronous, Dynamic by throughput
- B. Purchase four additional RPAs.
- C. Set the Link Policy to Synchronous, Dynamic by latency
- D. Use a VPLEX splitter

Correct Answer: D

XtremIO with VPLEX provides for both synchronous and asynchronous replication.

Note: The engine of RecoverPoint is the RecoverPoint Appliance (RPA).

Incorrect Answers:

A, B, C: XtremIO with Physical RPA - No Synchronous option available, only asynchronous replication as this uses snapshot shipping.

References: Introduction to the EMC XtremIO STORAGE ARRAY (April 2015), page 55



QUESTION 6

A Linux administrator is attaching a new RHEL server to their XtremIO storage array. Which configuration setting should be changed?

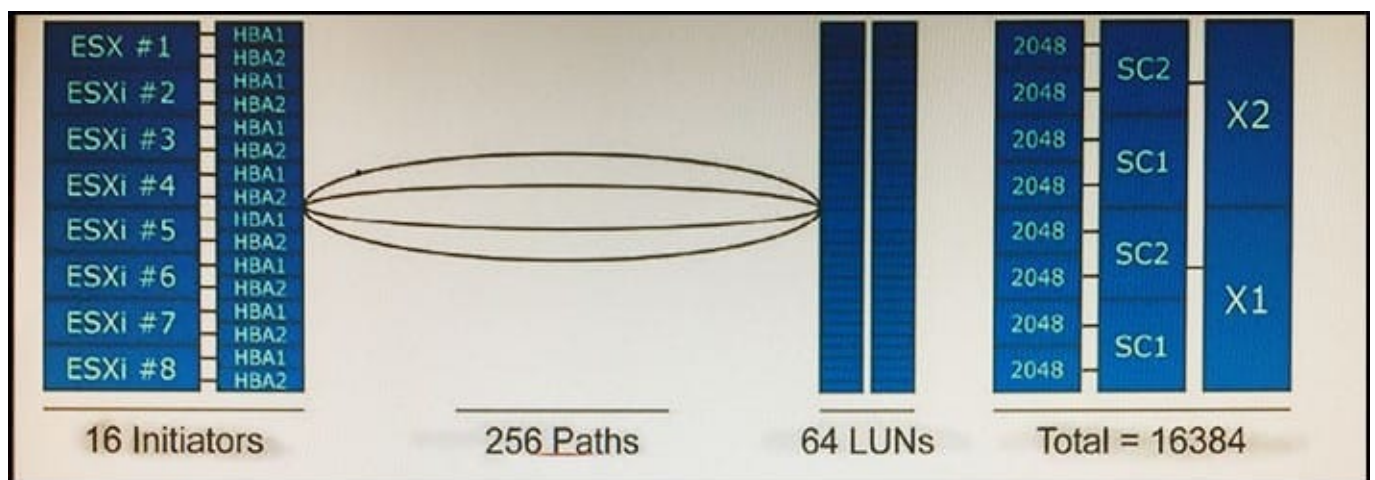
- A. Enable Logical Volume Manager
- B. Modify the file system block size
- C. Disable HBA Queue Depth
- D. Disable I/O elevators

Correct Answer: B

The block size for both Oracle Cluster Registry (OCR) and Cluster Synchronization Services (CSS) voting files are 512 bytes. I/O operations to these file objects are therefore sized as a multiple of 512 bytes. This is of no consequence since the best practice with XtremIO is to create volumes with 512e formatting.

References: <https://www.emc.com/collateral/white-papers/h13497-oracle-best-practices-xtremio-wp.pdf> , page 22

QUESTION 7



As shown in the exhibit, a customer's environment is configured as follows: Dual X-Brick cluster 8 ESXi hosts with 2 HBAs Each ESXi hosts has 8 LUNs Each LUN is visible through 4 paths

What should be the host queue depth setting per path?

- A. 64
- B. 128
- C. 256
- D. 1024

Correct Answer: C



The queue depth is per LUN, and not per initiator. Here there are 64 LUNs, each visible through 4 paths, which would indicate that 256 is a good choice for the queue depth setting.

Note: As a general advice, for optimal operation with XtremIO storage, consider the following: Set the queue depth to 256.

References: <https://www.emc.com/collateral/white-paper/h14583-wp-best-practice-sql-server-xtremio.pdf>

QUESTION 8

A customer has a workload with the following attributes: Generates 250,000 IOPs 100 TB in logical capacity Read/Write ratio of 1:1 Random workload with 8 kB I/O size Deduplication ratio of 2:1 Compression ratio of 2:1

Which XtremIO solution should be recommended to the customer?

- A. 1x40 TB X-Brick
- B. 2x10 TB X-Brick
- C. 3x20 TB X-Brick
- D. 4x10 TB X-Brick

Correct Answer: C

XtremIO clusters with 60 TB of physical usable flash capacity can now logically support 360 TB or more of capacity at typical 6:1 data reduction (deduplication plus compression) ratios. Here we have a 4:1 reduction ratio, so 25 TB would be enough. The 250,000 IOP requirements indicates that we need at least two 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 9

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
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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 10

How many management IP addresses are required on a single XtremIO storage controller?

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

Correct Answer: A

References: <https://docs.openstack.org/juno/config-reference/content/XtremIO-cinder-driver.html#xtremiomanagement-ip>

QUESTION 11

You need to design a VDI solution for a customer. Which best practices should be used for VDI environments?

- A. Align data on 4 kB boundaries. Put persona and user data on XtremIO LUNs



- B. Align data on 4 kB boundaries. Allocate multiple XtremIO LUNs to each host
- C. Align data on 8 kB boundaries. Put the master VM image on an XtremIO LUN
- D. Align data on 8 kB boundaries. Put all VDI-related data on one large LUN

Correct Answer: C

QUESTION 12

When using a 10 TB single X-Brick, what is the minimum amount of data that should be written during the Fill phase of the PoC Toolkit?

- A. 10 TB
- B. 15 TB
- C. 20 TB D. 30 TB

Correct Answer: C

Per IDC's best practices the toolkit fills the array 2x.

References: <https://community.emc.com/docs/DOC-35014>

QUESTION 13

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-athin-provisioned-san-vol-take>

QUESTION 14

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 15

A storage administrator is adding both an XtremIO and third-party storage arrays to their existing infrastructure. The administrator is using ViPR SRM to monitor the environment.

Which requirement is needed to implement this solution?

- A. A single third-party Solution Pack is required to manage both storage arrays
- B. Each storage needs its own Solution Pack
- C. Each storage array requires two Solution Packs; one for monitoring and one for performance
- D. A single XtremIO Solution Pack is required to manage both storage arrays

Correct Answer: B

References: https://www.emc.com/techpubs/vipr/understanding_solutionpacks-3.htm

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