E20-526^{Q&As}

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QUESTION 1

Table 1. Sustained remote replication throughput per RPA (MB/s)			
	IP		
Configuration	Without compression	With compression	Over FC
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.

QUESTION 2

A customer is considering migrating their existing non-EMC storage arrays to an XtremIO array. The current environment consists of 350 servers running VMware ESXi 5.5 with 5000 virtual machines. The customer has various tools in place to monitor performance and collect statistics. On average, their service time is 32 ms and utilization is at 75%. In the past, the customer has had performance issues.

Based on Little\'s Law, what is the calculated response time on the existing environment?

A. 128 ms

B. 192 ms

C. 256 ms

D. 332 ms

Correct Answer: A

Disk service time T(s) = 32 ms (service time for one I/O).

Response time T(r) is calculated as: T(s) / (1 – Utilization), which here calculates to 32 ms/ (1-0.75) = 128

ms.

References: https://community.emc.com/thread/145100?tstart=0

QUESTION 3

An administrator receives an error on an XtremIO array while performing snapshot refreshes to a production volume. What is a potential cause for this issue?

A. Refresh of the production volume is not supported

B. Volume was not unmapped on the XtremIO cluster

C. Only snapshot-to-snapshot refresh is supported

D. Volume was not unmounted on the host

Correct Answer: D

The workflow for refreshing XtremIO Snapshots, containing Oracle Database files, consists of the following five simple steps:

1.

Shut down the database instances with files in the target Snapshot Set.

2.

Dismount the ASM disk group (or file systems) involved.

3.

Refresh the Snapshot via XtremIO GUI (or CLI or RESTful API).

4.

Mount the ASM disk groups (or file system) involved.

5.

Start the database instances.

This entire workflow is measured in seconds (not minutes).

Incorrect Answers:

A: The refresh command is a powerful tool for test and development environments and for the offline processing use case. With a single command, a snapshot of the production volume or CG is taken and the SCSI face of the volume, which was mapped to the test and development application, is moved to it. This allows the test and development application to work on current data without the need to copy data or to rescan.

References: https://www.emc.com/collateral/white-papers/h14485-xtremio-snapshot-refresh-oracledatabases.pdf, page 8

QUESTION 4

You are designing an XtremIO solution for a potential customer. If the server and storage information is available, which information should be documented regarding the customer\\'s capacity expectations?

A. Capacity requirements on a per data center basis Expandability/scalability Performance requirements determined on a server-to-server basis

B. Capacity requirements on a per volume basis Expandability/scalability Performance requirements determined on a server-to-server basis

C. Capacity requirements on a per volume basis Compression rates/scalability Performance requirements determined on a server-to-server basis

D. Capacity requirements on a per data center basis Expandability/scalability Performance requirements determined holistically

Correct Answer: B

QUESTION 5

What is a method to establish an XMCLI session?

A. Use the PuTTY SSH tool configured for the serial port and xmsupload credentials

B. Use the Telnet SSH tool configured on Port 443 and root credentials

C. Use the CLI terminal in the Administration tab and root credentials

D. Use the PuTTY SSH tool configured for Port 22 and xmsadmin credentials

Correct Answer: D

The system\\'s Command Line Interface (CLI) allows administrators and other system users to perform

supported management operations. It is preinstalled on the XMS and can be accessed using the standard

SSH protocol.

PuTTY is an SSH and telnet client.

The standard TCP port 22 has been assigned for contacting SSH servers.

You can login using the builtin xmsadmin account.

References: Introduction to the EMC XtremIO STORAGE ARRAY (April 2015), page 50

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