DUMPSARENA

XtremIO Solutions and Design Specialist Exam for Technology Architects

EMC E20-526

Version Demo

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QUESTION NO: 1

A customer has a group of applications that need storage which can provide low response times. The total I/O requirements are 75,000 IOPs with a 4 kB block size. They will have 500 LUNs and need to keep 30 daily snapshots of each LUN.

What is the smallest XtremIO configuration that will meet their needs?

A. 1 cluster with 2 X-Bricks

B. 1 cluster with 4 X-Bricks

C. 2 clusters with 1 X-Brick each

D. 2 clusters with 2 X-Bricks each

ANSWER: A

QUESTION NO: 2

You have conducted a meeting with a company's Chief Technology Officer (CTO). The CTO wants an XtremIO solution to meet their business needs. The CTO wants you to review the proposed solution with their desktop administrator to identify any additional requirements.

What are two key considerations to discuss with the desktop administrator?

A. Rapid desktop deployment and operational ease of use

B. Application response time and rapid boot times

C. Sufficient capacity and performance

D. Ease of management and ability to customize end-user desktops

ANSWER: B C

QUESTION NO: 3

Who developed the framework for testing All-Flash arrays that is used in the XtremIO PoC?

A. EMC

B. Seagate

C. Micron

D. IDC

ANSWER: D

Explanation:

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 NO: 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

ANSWER: D

Explanation:

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 NO: 5

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.

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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 NO: 6

Table 1. Sustained remote replication throughput per RPA (MB/s)

Configuration	IP		Over FC
	Without compression	With compression	
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:

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

ANSWER: C

Explanation:

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.