E20-526 Q&As

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QUESTION 1

When creating XtremIO volumes for a host, which operating systems will benefit by changing the default logical block size for applications consisting of 4 KB I/Os?

A. Microsoft Windows and RHEL

B. VMware ESX and Microsoft Windows

C. RHEL and IBM AIX

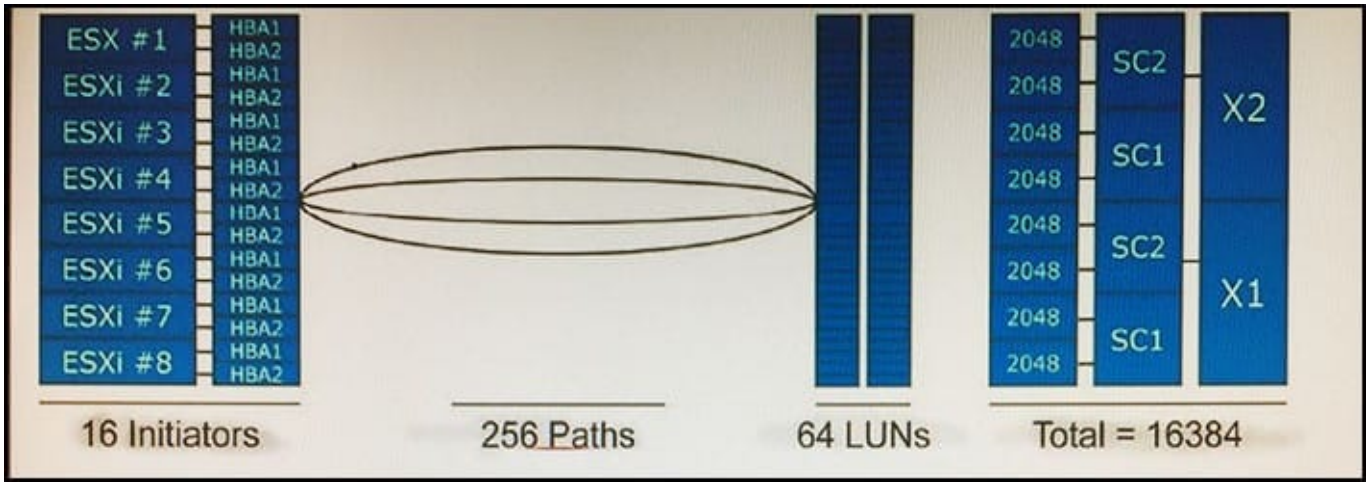
D. Sun Solaris and HP-UX

Correct Answer: B

With VMware ESX 5.5, the VMware hypervisor cannot work with LUNs that use a logical block size of 4K. When using VMware, be sure to specify Normal (512 LBs) from your XtremIO array.

References: https://gruffdba.wordpress.com/2015/08/02/4k-logical-block-size-size-fails-on-vmware/

QUESTION 2



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 3

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 4

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

Correct Answer: D

Proceed with filesystem aging by doing random overwrite cycles.

QUESTION 5

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