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QUESTION 1

Match each Smart Array controller rebuild rate with its description.

Hot Area:

A customer does not want to wait long for a rebuild of a failed drive, but also does not want a high system performance penalty.

Low
Medium
High

A customer wants to minimize the time that the drive array is in degraded state.

Low
Medium
High

A rebuild of a failed drive may not impact the system performance.

Low
Medium
High

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Correct Answer:



A customer does not want to wait long for a rebuild of a failed drive, but also does not want a high system performance penalty.

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Explanation/Reference:

Setting the rebuild priority or expand priority

The settings that you use for the rebuild priority and expand priority features determine how much importance you want an array rebuild or expansion to have relative to normal I/O operations.

* At the low priority setting, the rebuild or expansion takes place only when the controller is not busy handling normal I/O requests. This setting has minimal effect on normal I/O operations. However, an array that is rebuilt at this setting must operate for an extended time with possibly compromised fault tolerance during the rebuild, and if another physical drive fails during this time, you could lose data.

* At the medium priority setting, rebuild or expansion occurs for half of the time, and normal I/O requests are handled during the rest of the time.

* At the high priority setting, the rebuild or expansion occurs at the expense of normal I/O operations.

Although system performance is affected, this setting provides better data protection because the array is vulnerable to drive failure for a shorter time.

QUESTION 2

An HP ProLiant DL 380 G7 server has a failure indicating that memory slot DIMM 1 has errors. To troubleshoot the problem, you exchange the memory modules in slots 1 and 2 with each other. LED next to slot 1 is lit. What should you do?

- A. Run the ECC memory test in the diagnostics to correct the errors.
- B. Replace the system board and rerun the memory diagnostics.
- C. Replace the memory module in slot 1 because it is definitely bad.
- D. Replace both memory modules in slots 1 and 2.

Correct Answer: A



QUESTION 3

Which RAID level is known as Advance Data Guarding (ADG)?

- A. RAID 1
- B. RAID 5
- C. RAID 6
- D. RAID 10

Correct Answer: C

RAID 6 with HPs patented Advanced Data Guarding (ADG) technology is a cost-effective solution for storing large volumes of enterprise data with fault tolerance. Its performance, like that of other RAID levels, depends on the nature of the application. Organizations implementing a large drive array should consider RAID 6 because it can tolerate up to two simultaneous drive failures without downtime or data loss.

QUESTION 4

A customer has a DL380p Gen8 base unit with 1 CPU, 4 x 16 GB RDIMM with 24 total DIMM slots. Which memory option is valid?

- A. Remove the existing memory and populate all memory slots with UDIMMS memory.
- B. Populate the remaining 20 memory slots with additional RDIMM memory.
- C. Populate another 8 memory slots with additional RDIMM memory.
- D. Populate the remaining 20 memory slots with additional UDIMM memory.

Correct Answer: C

/ Rules for populating processors and DIMM slots

*

Install DIMMs only if the corresponding processor is installed.

*

If only one processor is installed in a two-processor system, only half of the DIMM slots are available.

/ DL380p can use one or two processors.

Note:

*

ProLiant Gen8 servers support four different DIMM types Unbuffered with ECC Memory (UDIMMs), Registered Memory (RDIMMs), Load Reduced Memory (LRDIMMs), and HyperCloudMemory (HDIMMs).



*

ProLiant Gen8 servers, we recommend populating all memory channels whenever possible. This ensures the best memory performance.

QUESTION 5

Which type of memory is used on the Smart Array controller cache?

- A. SDRAM
- B. SRAM
- C. RDRAM
- D. DRAM

Correct Answer: D

Error checking and correcting (ECC) DRAM technology protects the data while it is in cache. Smart Array battery-backed or flash-backed cache backup mechanisms protect the cache data against a server crash and power loss.

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