



C4040-250^{Q&As}

Power Systems with POWER8 Sales Skills V1

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**QUESTION 1**

In a competitive situation, a customer wants to compare virtualization capabilities of POWER8 systems and x86 systems. Which response describes a competitive advantage of PowerVM compared to VMware?

- A. PowerVM runs in a secure address space while VMware runs in application state
- B. PowerVM can run dual VIO servers to provide higher availability
- C. PowerVM provide higher system utilization because it is implemented in the processor logic.
- D. PowerVM has the ability to virtualize memory while VMware does not.

Correct Answer: D

Recent innovations include Active Memory Sharing, which allows for the exchange of memory between running partitions. This increases optimization of physical resources similar to how CPUs are shared with Shared Processor logical

partitions. It enables the sharing of a pool of physical memory among the logical partitions. One of the key benefits is that it provides the ability to configure systems with less physical memory. When a system needs more physical memory, it

can be configured to grab the memory from the shared pool. Basically, this shifts memory dynamically from idle LPARs to active ones. This feature is available on AIX V6.1 and SLES 11. A VIO server must also be deployed for partitions that

use Active Memory Sharing, and all I/O access needs to be virtualized by using these partitions.

Reference:

<https://www.ibm.com/developerworks/aix/library/au-aixhvpvirtualization/>

QUESTION 2

What benefit is provided by connecting FPGA cards to POWER8 via CAPI instead of connecting FPGA cards to x86 via PCIe?

- A. There is no overhead from OS or drivers, providing improved response times and increased throughput.
- B. FPGA card attached via CAPI on POWER8 comes pre-installed with specific drivers.
- C. The offload processor in CAPI speeds up I/O transfers from the FPGA card.
- D. FPGA cards can be installed in PCIe or PCI-X slots on POWER8.

Correct Answer: A

Explanation: When you connect FPGA card to Power8 via CAPI, no overhead fro OS or drivers will occur. IT provides improved response time and increased throughput.

**QUESTION 3**

An IT manager has several POWER5 servers and wants to consolidate them into a new POWER8 server. The CFO (Chief Financial Officer) is asking for a financial justification for the project. Which resource can be used to provide a rapid high-level financial data overview?

- A. IBM Global Financing
- B. Scorpion study
- C. Alineantool
- D. Eagle study

Correct Answer: C

One of the biggest challenges customers face these days when searching for the right IT solution is accurately predicting the costs/benefits to their business. With the IT landscape constantly shifting due to the explosion of data from fields like mobile and social networking, the amount of data businesses must process has grown exponentially. Finding the right approach has never been more critical.

The Alinean tool, developed by IBM, is designed to help customers get an accurate picture of what their business would look like with an IT solution from IBM PureSystems. The customer can fill in as much or as little information as they like and the tool will use industry standards, averages, and assumptions to create an analysis of what their organization would save by shifting to PureSystems.

The customer has complete control at all times over the level of detail they submit a report can be generated by answering as little as three basic questions such as company name, location and industry. If they want a more detailed report however, they can choose to enter information such as data servers, types of application software, and their storage requirements. With this additional information the tool can generate a richly detailed view of the specific savings an IBM PureSystems solution would provide.

Reference: <http://expertintegratedsystemsblog.com/2012/07/alinean-tool-get-an-accurate-picture-of-the-benefits-of-expert-integrated-systems/#sthash.9yaC7Ebj.dpuf>

QUESTION 4

A client is looking for a high availability solution for their existing Power environment. They have two locations, each with an E870 and DS8800. What solution provides the best TCO?

- A. IBM PowerHA
- B. Vision Solutions MIMIX
- C. IBM PowerVP
- D. IBM Tivoli Manager for HA

Correct Answer: A

Reference: http://www.rocketsoftware.com/sites/default/files/resource_files/IBM%20Systems%20iCluster%20Solution%20Brief.pdf?flag=metaandproduct=rocket-icluster-business-continuity-softwareandfamily=rocket-iclusterandsolution=archiveand-backup-managementandresourceype=datasheetandresourcebn=rocket-software-and-ibm-i-solution-editions-protect-data-and-complement-powerhaandresourcefbn=IBM%20Systems%20iCluster%20Solution%20Solution%20Brief.pdf (see highlights, second last bullet)



QUESTION 5

What is an advantage of the POWER8 Scale-out systems compared to a competitive Oracle T5 offering?

- A. The option to run SUSE Linux.
- B. The ability to connect to a SAN.
- C. The ability to support internal drives.
- D. The option to run multiple partitions.

Correct Answer: D

Explanation: Power8 Scale-out systems support internal drives whereas Oracle T5 supports only external drives and SAN.

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