Vendor:IBM

Exam Code:C4040-250

Exam Name: Power Systems with POWER8 Sales Skills V1

Version: Demo

QUESTION 1

A customer has a quote for running an Oracle database on a HP Itanium server. What POWER8 competitive advantage should an IBM reseller discuss?

A. Oracle no longer supports Itanium on Oracle\\'s latest versions of their database.

B. HP Itanium only supports Oracle database with Windows.

C. The Oracle database cost has a multiplier of .5 on POWER8.

D. POWER8 requires fewer cores resulting in fewer Oracle licenses.

Correct Answer: C

Explanation: HP Itanium doesn\\'t support IBM power8. It only supports Oracle Database with Windows.

QUESTION 2

An installed HP Superdome / Oracle database customer is consider migrating to POWER8. The customer has significant financial concerns because of the multiple partitions and high Oracle licensing cost of their HP solution. What features / capability of POWER8 should be discussed with this customer?

A. Processor pooling and high performance cores

B. PowerVP and PowerSC

C. CUoD and CAPI

D. Shared Storage and Processor roadmap

Correct Answer: D

Reference: http://www-05.ibm.com/cz/events/febannouncement2012/pdf/power_architecture.pdf

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QUESTION 3

Due to new regulatory requirements, a Power Systems customer must set up a disaster recovery site in a geographical location at least 120 miles (194 km) away from the main site. What is the minimum PowerHA solution that should be proposed?

A. Enterprise Edition

B. Standard Edition

C. Geographical Edition

D. Express Edition

Correct Answer: A

Explanation: The PowerHA SystemMirror for i Enterprise Edition includes all of the capabilities of the Standard Edition and more. The Enterprise Edition package enables you to extend your data center solution across two sites. PowerHA SystemMirror Enterprise Edition includes support for DS8000, SVC, V7000, V5000 and V3700 with either Metro Mirror or Global Mirror and with 7.1 of PowerHA SystemMirror, the Enterprise Edition also includes support for geomirroring asynchronous mode. Geomirroring synchronous mode support is included with the PowerHA SystemMirror Standard Edition.

QUESTION 4

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 5

A customer needs to support an HPC cluster, and needs the maximum number of cores in a standard 19 inch rack. The customer can run either AIX or Linux. Which POWER8 server best satisfies the requirement?

A. S824

B. S822

C. S822L

D. S824L

Correct Answer: B

The Power S822 is designed to mount in the 36U 7014-T00 (#0551), the 42U 7014-T42 (#0553), or the IBM 42U Slim Rack (7965-94Y) racks. These racks are built to the 19-inch EIA 310D standard.

Reference:

http://www.redbooks.ibm.com/redbooks/pdfs/sg248171.pdf

QUESTION 6

You are proposing a PowerHA solution to your customer who wants installation assistance. What resource can be proposed to perform the installation?

A. IBM Development team

B. Advanced Technical Support

C. Lab Services

D. Local Field Technical Sales Support

Correct Answer: C

Reference: http://www.redbooks.ibm.com/redbooks/pdfs/sg248167.pdf

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QUESTION 7

A customer is considering the E880 server with PowerVC to simplify virtualization management.

Which software product includes PowerVC?

A. AIX 7 Standard Edition

B. AIX 7 Enterprise Edition

C. AIX 6 Express Edition

D. PowerVM Enterprise Edition

Correct Answer: B

Explanation: AIX Enterprise Edition will now include the PowerVC offering. PowerVC improves enterprise virtualization management, reduces capital expense and power consumption, and increases agility and execution to respond to changing business requirements.

Reference: http://www-01.ibm.com/common/ssi/cgi-bin/ssialias? infotype=OCandsubtype=NAandhtmlfid=897/ ENUS5765-G99andappname=System%20Storage

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QUESTION 8

A customer has a 6TB database that needs a very high performance solution at the lowest cost. Which system is the more cost effective solution?

A. The S824 with attached FlashSystem 840.

B. The S824 with integrated SSDs and V5000.

C. An E870 with internal disk drives and SSDs.

D. The S824 with internal disk drives and SSDs with Easy Tier.

Correct Answer: A

Huge OLTP workloads running on a database server would normally need a large amount of costly system memory (RAM) used for the database System Global Area (SGA) on the host server. The large SGA might help to keep more frequently accessed data and frequently executed SQL statements in the database buffer cache and libraries to avoid

high latency I/O requests to the storage subsystem. IBM FlashSystem 840 is a solution for low latency I/O requests and thus helps reduce the size of the SGA. The fast access of data from IBM FlashSystem 840 minimizes the use of costly memory on the host servers for the applications and databases. Reference: http://www.slideshare.net/JuanRebes/ideal-storage-for-ibm-power-systems

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QUESTION 9

Which tool can be used to determine the three-year TCO of an S824 system compared to an HP DL580?

A. Power Systems Speed Sheets

B. TCO Cost Estimator

C. Quick Pricer

D. Alinean TCO tool

Correct Answer: B

QUESTION 10

A small retailer has a 4-core S814 with one processor license to run the production workload. During the busy holiday season in November and December, the average daily workload is doubled. Which solution will provide the required processing capacity for the busy season?

A. Purchase an additional processor license.

B. Implement Elastic Capacity on Demand

C. Enable Active Memory Expansion

D. Purchase an additional processor activation

Correct Answer: C

Active Memory Expansion is an innovative POWER7 technology that allows the effective maximum memory capacity to be up to 100% larger than the true physical memory maximum for AIX 6.1 partitions.

Active Memory Expansion relies on compression of in-memory data to increase the amount of data that can be placed into memory and thus expand the effective memory capacity of a POWER7 system. The in- memory data compression is

managed by the system, and this compression is transparent to applications and users.

Active Memory Expansion is configurable on a per-logical partition (LPAR) basis. Thus, Active Memory Expansion can be selectively enabled for one or more LPAR\\'s on a system. When Active Memory Expansion is enabled for a LPAR, the

operating system will compress a portion of the LPAR\\'s memory and leave the remaining portion of memory uncompressed. This results in memory effectively being broken up into two pools a compressed pool and an uncompressed pool.

The operating system will dynamically vary the amount of memory that is compressed based on the workload and the

configuration of the LPAR. Because Active Memory Expansion relies on memory compression, some additional CPU

utilization will be consumed when Active Memory Expansion is in-use. The amount of additional CPU utilization needed for Active Memory Expansion will vary based on the workload and the level of memory expansion being used.

Reference:

https://www.ibm.com/developerworks/mydeveloperworks/wikis/home/wiki/Power+Systems/pag e/Active +Memory+Expansion+(AME)

QUESTION 11

A customer is running an application that is licensed per core.

What advantage does POWER8 have compared to x86 that could lower software costs?

A. Memory performance

B. Bandwidth performance

C. Processor performance

D. I/O performance

Correct Answer: C

Explanation: Power8 unique processor features provide lower software costs compared to x86 processor infrastructure. Topic 3, Value Proposition (29%)

QUESTION 12

A customer has a critical invoice application for which the system is mostly underutilized. During the last week of the month, response times become unacceptable due to growth. The customer does not want to pay for a system that is idle most of the time.

What should be proposed?

A. Capacity Upgrade On Demand

B. Elastic Capacity On Demand

C. Power Enterprise Pools

D. Active Memory Expansion

Correct Answer: D

IBM\\'s POWER8TM systems with AIX?feature Active MemoryTM Expansion, a new technology for expanding a system\\'s effective memory capacity. Active Memory Expansion employs memory compression technology to transparently compress in-memory data, allowing more data to be placed into memory and thus expanding the memory capacity of POWER8 systems. Utilizing Active Memory Expansion can improve system utilization and increase a system\\'s throughput.

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