

**C4040-252**

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IBM C4040-252 Questions & Answers

Power Systems with POWER8 Enterprise Technical

Sales Skills V1

Version: 5.0  
IBM C4040-252 Exam

## Exam A

### QUESTION 1

Comparing an Oracle Exadata to an E870, what advantage does an E870 have when compared to the Exadata?

- A. E870 supports the Oracle 12c database.
- B. E870 provides an ability to add cores and memory in a more granular manner.
- C. E870 provides more cores for greater scaling.
- D. E870 adds support for external storage.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

### QUESTION 2

Which of the following is a design consideration for the E870 / E880?

- A. The integrated SAS controllers in the system nodes manage all six SAS bays in the system node.
- B. A DVD drive must be included in either the system control unit or in a system node.
- C. Only low profile PCIe adapters are supported in the system node.
- D. Each system node has eight PCI Gen3 slots which are a mix of x8 and x16 PCIe slots.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

### QUESTION 3

What primary advantage does Integrated Facility for Linux (IFL) provide for the customer?

- A. PowerKVM is included with IFLs
- B. Accelerated Linux performance
- C. Lower system software prices
- D. Lower hardware maintenance charges

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:[http://www.novell.com/docrep/2012/02/sles\\_for\\_system\\_z\\_faq.pdf](http://www.novell.com/docrep/2012/02/sles_for_system_z_faq.pdf)

Explanation: The Integrated Facility for Linux, or IFL for short, is a specialty engine for the IBM mainframe dedicated to running Linux with or without z/VM. IFLs are one of three types of mainframe processors expressly designed to reduce software costs

#### **QUESTION 4**

A new customer has a requirement to analyze the effects of activating two cores on an E870 and 32GB of memory for one month.

What is the most cost-effective Capacity on Demand (CoD) offering that would satisfy this requirement?

- A. On/Off
- B. Elastic
- C. Utility
- D. Trial

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=an&subtype=ca&appname=gplateam&supplier=897&letternum=ENUS114>-

Explanation: f a Power E870 system node uses the IBM i operating system and the temporarily activated cores were used for IBM i partitions, you must inform the sales team placing the billing feature order which operating system caused the temporary elastic CoD processor use so that the correct feature can be used for billing.

#### **QUESTION 5**

Which of the following RAS features is always enabled and functional on an E870 / E880, regardless of configuration?

- A. System auto-restart
- B. Dynamic Memory Sparing
- C. Dynamic Processor Sparing
- D. Processor Instruction Retry

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<https://mrt.presalesadvisor.com/PowerStoragePDF/687.pdf>

Explanation:Again by using the advanced RAS feature that is known as Processor Instruction Retry.

**QUESTION 6**

When connecting a 12 slot PCIe Gen3 I/O Expansion drawer, how many CXP adapters are required?

- A. 1
- B. 4
- C. 2
- D. 3

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [http://www.cutaiwan.com/uploads/IBM\\_201421222438.pdf](http://www.cutaiwan.com/uploads/IBM_201421222438.pdf)

**QUESTION 7**

Which POWER8 processor feature was announced to deliver balanced system performance?

- A. EnergyScale Technology
- B. TPMD (Thermal Power Management Device)
- C. Level 4 (L4) cache
- D. 20 partitions per core

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 8**

Which statement best describes the System Control Unit (SCU) in a two-node Power E870 / E880?

- A. The two nodes share an SCU unit through power and Infiniband cables.
- B. The two nodes share an SCU through clock and FSP cables.

- C. An SCU is optional when the operator control panel is included on each system node.
- D. Each node has its own SCU for redundancy.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<http://www.redbooks.ibm.com/redpapers/pdfs/redp5137.pdf>

### QUESTION 9

A retail customer has implemented the following at each store location:

- A Linux-based POS (Point of Sale) application
- A data collection application on an x86 system
- An additional S822L running data analytics

The customer wants to consolidate to a single system in each store. They prefer the POWER platform, but stated concern about the data structure of the POS systems.

What can be presented to the customer to minimize this concern?

- A. PowerKVM enables Endian neutrality.
- B. The memory system of Power Servers is Endian neutral.
- C. The ability of Power Systems to support little-Endian and big-Endian Linux instances on the same server.
- D. The POS system can be re-compiled to support the big-Endian structure needed by the analytics application.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

With the new XL C/C++ compiler, you can create and port applications for execution on the next generation of IBM systems supporting little endian architectures and built on POWER8 technology designed to handle big data and to drive modern workloads for cloud, mobile, and social.

Reference:[http://www-01.ibm.com/common/ssi/rep\\_ca/1/897/ENUS214-411/ENUS214-411.PDF](http://www-01.ibm.com/common/ssi/rep_ca/1/897/ENUS214-411/ENUS214-411.PDF)

### QUESTION 10

A customer is considering a Power Systems solution to provide in-memory table look-up for large volumes of unstructured data for their mobile and social applications.

Which of the following Power Systems solution editions satisfies the requirement?

- A. IBM Solution for Analytics
- B. IBM Data Engine for Analytics
- C. IBM Data Engine for NoSQL
- D. IBM BLU Acceleration

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:[#loaded](http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=PM&subtype=SP&htmlfid=POS03135USEN&appname=TAB_2_2_Appname)

## QUESTION 11

Which of the following documents is designed to mitigate risk as part of the acquisition of a new E880?

- A. SSIC Listing
- B. TDA Checklist
- C. Site Evaluation
- D. Power Estimator

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

## QUESTION 12

A POWER6 customer is considering an upgrade to a new Power System, and needs to ensure availability at a DR site. The recovery point must be as close to current as possible without going to continuous availability. Recovery time must be less than four hours.

What should be proposed to the customer?

- A. Utilize a dual VIOS system to provide redundancy.
- B. Utilize PowerHA to replicate the server and storage to a backup system and manage the failover.
- C. Create a PowerVM configuration that has two instances of the server with Power mirrored storage.
- D. Create a clustered system with a Primary and backup system using a single SAN attached storage device.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

The benefit of a dual VIOS setup is that it promotes redundancy, accessibility, and serviceability. It also offers load-balancing capabilities for Multipath I/O (MPIO) and multiple shared Ethernet adapter configurations.

Reference:[http://www-](http://www-01.ibm.com/support/knowledgecenter/P8DEA/p8eew/p8eew_set_dual_vios.htm)

[01.ibm.com/support/knowledgecenter/P8DEA/p8eew/p8eew\\_set\\_dual\\_vios.htm](http://www-01.ibm.com/support/knowledgecenter/P8DEA/p8eew/p8eew_set_dual_vios.htm)

### **QUESTION 13**

Which of the following differentiates the capabilities of IBM Cloud Manager with OpenStack from PowerVC?

- A. Deploys images within the image repository with policy based placement.
- B. Provides virtual machine relocation.
- C. Captures existing virtual machines as images within the image repository.
- D. Generates custom expiration policies for each virtual machine.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<https://www.ibm.com/developerworks/servicemanagement/cvm/sce/i/IBMCloudManagerwithOpenStack.pdf>(See Page #33, 3rd point).

### **QUESTION 14**

Which feature of the POWER8 processor can be used to improve performance in a Websphere Application Server environment compared to an x86 processor?

- A. Transactional Memory (TM)
- B. CAPI
- C. Agnostic Memory interface
- D. L4 cache

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation: Reference;<http://whywebsphere.com/2015/02/27/ibm-websphere-application-server-beats-oracle-weblogic-with-record-specjenterprise->

2010-benchmark-result-on-latest-intel-haswell- ep-processors/

**QUESTION 15**

A client is considering the S824L system for development of a real time financial trading application. What is required to program the accelerator?

- A. CUDA
- B. OpenCL
- C. OPAL
- D. QEMU

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<http://openpowerfoundation.org/category/blogs/>

**QUESTION 16**

Which virtualization hypervisor provides an Open Source choice for Power virtualization with big data?

- A. KVM
- B. PowerVM
- C. Xen
- D. PowerKVM

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<http://www-03.ibm.com/systems/power/software/linux/powerkvm/>

**QUESTION 17**

What is the minimum amount of rack space that an 80 core E870, without any I/O drawers, will take up in a 19 inch rack?

- A. 8U
- B. 22U
- C. 12U
- D. 10U

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<http://www.xrackpro.com/19-Inch-Server-Rack-s/33.htm>

## QUESTION 18

When utilizing dual VIO Servers, which of the following simplifies storage management for the system administrator in a Fiber Channel SAN environment?

- A. SAS
- B. SSD
- C. vSCSI
- D. NPIV

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<http://www.redbooks.ibm.com/redpapers/pdfs/redp4815.pdf>

## QUESTION 19

Which hardware can be moved from a 770 to an E870 when doing a migration?

- A. PCIe 5802/5877 I/O drawer
- B. EXP24S SFF Gen2-bay drawer
- C. Memory DIMMs
- D. EXP30SSD I/O drawer

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

## QUESTION 20

A customer decided to install an IBM i LPAR on an E870, which hosts AIX and VIOS partitions. The server does not contain a DVD Unit (#5771).

What is the least expensive option to install an IBM i operating system?

- A. Install an IBM i partition using the existing NIM server.
- B. Use the internal tape device to load IBM i.
- C. Configure a vSCSI adapter and use the Virtual Media Repository.
- D. Attach an external DVD drive via the USB port in front of the System Control Unit

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

A virtual media repository may be used to substitute for a DVD device if using VIOS.

Reference:<http://www.redbooks.ibm.com/redpapers/pdfs/redp5137.pdf>(page 36)

#### **QUESTION 21**

A customer has a tape drive directly connected to a 8Gb FC adapter to one LPAR which now needs to be shared between four LPARs. Network and storage are being accessed through NPIV and SEA.

In addition to assigning the adapter to the VIOS, what else needs to be done?

- A. Reassign the tape to client LPARs as needed.
- B. Assign the tape drive to the partitions.
- C. Complete the NPIV connectivity and map the tape to client partitions.
- D. Complete the vSCSI connectivity and map the tape to client partitions.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 22**

Which of the following is the complete set of modes that can be configured on a POWER8 processor?

- A. POWER5, POWER6, POWER7, and POWER8
- B. POWERS, POWER6+, POWER7, and POWER8

- C. POWERS, POWER6+, POWER7, POWER7+, and POWER8
- D. POWER7, POWER7+, and POWER8

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<http://www-03.ibm.com/systems/power/hardware/benchmarks/erp.html>

## QUESTION 23

Which of the following is a feature in PowerVM?

- A. Hard capping of VM
- B. Active Memory Expansion
- C. SR-IOV adapter support
- D. Processor Micro-Threading

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:[http://www.ibmssystemsmag.com/aix/administrator/virtualization/powervm\\_features/](http://www.ibmssystemsmag.com/aix/administrator/virtualization/powervm_features/)

## QUESTION 24

What VIOS Shared Storage Pool feature is used to rapidly recover data to a previous point in time?

- A. Mirror Copy
- B. Linked Clone/Recovery
- C. Client VM disks snapshot
- D. VM Storage Snapshots/Rollback

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<http://www.ibm.com/developerworks/aix/library/au-aix-vios-clustering/>

**QUESTION 25**

Which component of IBM Cloud Manager with OpenStack allows clients to automate how they build, deploy, and manage their infrastructure?

- A. Chef
- B. Nova
- C. Neutron
- D. Cinder

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<https://www.google.com.pk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=3&cad=rja&uact=8&ved=0CCMQFjAC&url=https%3A%2F%2Fwww-304.ibm.com%2Fconnections%2Ffiles%2Fbasic%2Fanonymous%2Fapi%2Flibrary%2F5b9d8e8f-5808-4fca-ab24-d61cbf7957a6%2Fdocument%2Fbb8062bc-04b6-4c6a-82ae-685ceb8cfb28%2Fmedia&ei=0bw2VfadFcr4ywPI-oDwDg&usg=AFQjCNFqp4HNQgonjrSw7C9f9of9RAUSA&bv=91071109,d.bGQ>

**QUESTION 26**

A client would like to automate provisioning of new virtual machines with an end user self-service interface.

Which of the following will provide that functionality?

- A. IBM Cloud Manager with OpenStack
- B. PowerVC
- C. IBM Platform Resource Scheduler
- D. PowerSC

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<http://www-03.ibm.com/systems/power/solutions/cloud/openstack/>

**QUESTION 27**

In addition to an S822L, what is a component of the IBM solution for Hadoop?

- A. DCS3700
- B. Flash System 840

- C. ESS
- D. DS8870

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

Reference:[http://www-01.ibm.com/common/ssi/rep\\_ca/9/897/ENUS114-149/ENUS114-149.PDF](http://www-01.ibm.com/common/ssi/rep_ca/9/897/ENUS114-149/ENUS114-149.PDF)

**QUESTION 28**

A managed service provider offering retail cloud services on E870 with DS8870 storage would like to use storage copy services to replicate data between a primary and secondary data center located 200 miles (322 km) apart.

Which product is required?

- A. FlashCopy
- B. Metro Mirror
- C. Global Mirror
- D. Snapshot

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

Reference:[http://pic.dhe.ibm.com/infocenter/flexsys/information/index.jsp?topic=%2Fcom.ibm.acc.4939.doc%2Fsvc\\_mirrorsuptlongdistlinks\\_3he0ay.html](http://pic.dhe.ibm.com/infocenter/flexsys/information/index.jsp?topic=%2Fcom.ibm.acc.4939.doc%2Fsvc_mirrorsuptlongdistlinks_3he0ay.html)

**QUESTION 29**

A customer wants to provide storage to 16 partitions on a new E880. Each partition requires at least 10 individual LUNs. The customer has strong skills with SAN administration, but only moderate skills with VIOS Server.

Which technology is the best recommendation based on the customer skill set?

- A. SVC
- B. NPIV
- C. vSCSI
- D. MPIO

**Correct Answer:** A

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 30**

A customer has two Power E870 systems and requires Power Enterprise Pool implementation.

What is required to implement the solution?

- A. License Key
- B. Redundant HMCs
- C. A configuration files from IBM
- D. Fully populated memory slots

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference:<http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=an&subtype=ca&appname=gpatteam&supplier=877&letternum=ENUSZG14->

**QUESTION 31**

Which of the following describes a capability of PowerVC?

- A. Simplifies cloud administration with a self-service user interface.
- B. Clones, copies, and relocates Power Systems virtual machines.
- C. Provides isolation of users and projects through a common portal.
- D. Provides metering and billing reports.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference:<https://www.ibm.com/developerworks/servicemanagement/cvm/pvc/>

**QUESTION 32**

Which tool can help identify the appropriate firmware for a Power System?

- A. System Planning Tool (SPT)
- B. Inventory System Tool (IST)
- C. Fix Level Recommendation Tool (FLRT)
- D. Workload estimator (WLE)

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

The Fix Level Recommendation Tool (FLRT) provides cross-product compatibility information and fix recommendations for IBM products. Use FLRT to plan upgrades of key components or to verify the current health of a system.

Reference:[http://www-](http://www-933.ibm.com/support/fixcentral/?productGroup0=ibm/fcpower&productGroup1=ibm/power/hmcsfw)

[933.ibm.com/support/fixcentral/?productGroup0=ibm/fcpower&productGroup1=ibm/power/hmcsfw](http://www-933.ibm.com/support/fixcentral/?productGroup0=ibm/fcpower&productGroup1=ibm/power/hmcsfw)

### **QUESTION 33**

A customer has an E880. They are considering using Power Enterprise Pools.

What is the maximum percentage of installed memory that can have mobile activations?

- A. 75%
- B. 25%
- C. 100%
- D. 50%

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www.redbooks.ibm.com/abstracts/tips1169.html?Open>

### **QUESTION 34**

What POWER8 enhancement provides greater RAS compared to prior generations of Power Systems?

- A. First Failure Data Capture
- B. Larger L3 memory cache modules
- C. Redundant system clocks

D. Spare data lane on each fabric bus

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

## QUESTION 35

Which feature will help prevent a system outage in the event of an uncorrectable error in memory being used by the hypervisor?

- A. Active Memory Expansion
- B. Active Memory Mirroring
- C. Active Memory Protection
- D. Active Memory Sharing

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<http://www.ibmssystemsmag.com/power/trends/ibmannouncements/enterprising-power8/?page=2>

Explanation: Active Memory Mirroring for Hypervisor, which helps prevent system outages in the event of an uncorrectable error in memory being used by the hypervisor

## QUESTION 36

Which interface supports connectivity between the POWER8 processor and the accelerator on the S824L?

- A. PCI-Express
- B. RoCE
- C. RDMA
- D. Infiniband

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<http://www.redbooks.ibm.com/redpapers/pdfs/redp5139.pdf>

Explanation: The Power S824L systems have internal I/O connectivity through Peripheral Component Interconnect Express Gen3 (PCI Express

**QUESTION 37**

How is the 19 inch PCIe Gen3 I/O Expansion Drawer connected on POWER8 systems?

- A. PCIe Gen3 Infiniband Adapter
- B. GX++ Bus
- C. Optical CXP Converter Adapter
- D. PCIex8SR-IOV Adapter

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<http://www.redbooks.ibm.com/redpapers/pdfs/redp5137.pdf>

**QUESTION 38**

A customer is running an internal cloud and would like to have the ability to activate and deactivate processor cores on their E880 for peak processing periods throughout the year and to help control cost.

Which feature is required?

- A. Capacity Upgrade on Demand
- B. Elastic Capacity on Demand
- C. Enterprise Capacity Pools
- D. Mobile Capacity on Demand

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<http://www.redbooks.ibm.com/redpapers/pdfs/redp5137.pdf>

**QUESTION 39**

Compared to x86, what feature of POWER8 processor technology permits more efficient processor core utilization to support highly threaded applications?

- A. Decimal floating point unit

- B. L4 caches
- C. SMT8
- D. CAPI

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Some of the best opportunities for improving application performance are in delivering scalable code by having an application make effective use of multiple concurrent threads of execution. With the multi-threaded POWER8 cores, each SMT hardware thread represents a logical processor in AIX, IBM i, and Linux. A 4-core LPAR, with SMT8 mode (eight hardware threads per core), means that the OS is running 32 logical CPUs.

#### **QUESTION 40**

Which of the following is true for an IBM Power Enterprise processor pool?

- A. The master HMC and backup master HMC can be concurrently assigning activations and resources to servers in the pool.
- B. Multiple physical sites are supported, but each site must have access to the master HMC.
- C. A server is deleted from, or added to, the pool when the client creates a new XML file.
- D. The master HMC is defined using an client-created XML file which lists serial number of each Enterprise Pool Participate (EPP).

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<http://www.redbooks.ibm.com/redpapers/pdfs/redp5101.pdf>

#### **QUESTION 41**

A customer has purchased a POWER8 server and will deploy dual VIOS servers to provide virtualized access to storage and networking. The customer has skills in both managing Power Systems and Storage.

The system contains two 4Gb FC adapter. A V7000 will be used for storage.

Which virtualization technology would be used to present storage to the client partitions?

- A. FCoE
- B. NPIV
- C. vSCSI

D. RoCE

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 42**

A customer is interested in running a dual VIOS configuration, and wants to avoid SAN boot for the VIOS.

Which of the following solutions should be recommended?

- A. Allocate iSCSI storage on two separate adapters for the VIOS boot disks.
- B. Allocate Fibre Channel storage to the machine and then use vSCSI to the VIOS for boot disks.
- C. Allocate two SAS disks on two separate SAS adapters for VIOS boot disks.
- D. Allocate two Fibre Channel LUNs and two iSCSI LUNs, then give one of each to the VIOS boot disks.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 43**

A customer wants to minimize the number of Fibre Channel adapters located in a system node. Slots in a PCIe I/O expansion drawer are not available.

Which supported adapter provides the maximum number of ports?

- A. 4-port 10Gb
- B. 4-port 8Gb
- C. 4-port 4Gb
- D. 4-port 16Gb

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:<http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=an&subtype=ca&appname=gpatem&supplier=897&letternum=ENUS114>- Explanation:PCIe2 8Gb 4-port Fibre Channel Adapter

#### **QUESTION 44**

Which POWER8 feature can provide increased system performance?

- A. TPMD (Thermal Power Management Device)
- B. CAPI
- C. POWER7 processor mode
- D. Energy Scale Technology

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **Explanation/Reference:**

Explanation:

IT organizations must provide increased system performance as their workloads grow with demands for big data analysis, social media applications, continuous customer connectivity, and business-specific applications. Increases in processor performance alone cannot satisfy the workload demands, so solutions must also come from system-level advances such as hybrid computing, processing engine customization, and open platform development that enables cross- company innovation.

The Coherent Accelerator Processor Interface (CAPI) on IBM® POWER8™ systems provides solution architects with a new way to gain system-level performance. CAPI connects a custom acceleration engine to the coherent fabric of the POWER8 chip. The hybrid solution has a simple programming paradigm while delivering performance well beyond today's I/O attached acceleration engines.

#### **QUESTION 45**

A client is considering deploying an HPC workload leveraging NVIDIA's K40 GPUs on the S824L.

Which Linux distribution is supported?

- A. Ubuntu
- B. OpenSUSE
- C. Fedora
- D. Debian

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **Explanation/Reference:**

Reference:<https://www.google.com.pk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&cad=rja&uact=8&ved=0CCQQFjAB&url=https%3A%2F%2Fwww.ibm.com%2Fdeveloperworks%2Fcommunity%2Fwikis%2Fform%2Fanonymous%2Fapi%2Fwiki%2F61ad9cf2-c6a3-4d2c-b779-61ff0266d32a%2Fpage%2F1cb956e8-4160-4bea-a956-e51490c2b920%2Fattachment%2Ffb29451f-57c4-480e-a1ff-3010cbb7723e%2Fmedia%2FAIX%2520VUG%2520P8%2520Announce.pdf&ei=FpA3Va2zLuPnywPehIGIBQ&usq=AFQjCNGiy59ajXNftQwxJI0qCxsfzyhVqQ&bvm=bv.91071109,d.bGQ>(See the Page #13).

## QUESTION 46

A customer would like to add a second HMC to an environment which consists of multiple POWER7 and POWER8 systems.

Which of the following is a requirement for both HMCs to be able to manage all the systems?

- A. All the POWER7 systems must be at the same firmware level.
- B. Both HMCs must be on the same HMC VLAN.
- C. Each HMC must be on a dedicated HMC VLAN.
- D. Both HMCs must be at the same code level.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

## QUESTION 47

Which of the following describes the number and type of slots supported by each PCIe Gen3 I/O Expansion Drawer fan-out module?

- A. 8 PCIe x8 slots  
4 PCIe x16 slots
- B. 6 PCIe x8 slots  
6 PCIe x16 slots
- C. 2 PCIe x8 slots  
4 PCIe x16 slots
- D. 4 PCIe x8 slots  
2 PCIe x16 slots

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference:[http://downloadt.advantech.com/ProductFile/PIS/ASMB-823I/Product%20-%20Datasheet/ASMB-823I\\_DS\(01.19.15\)20150123155323.pdf](http://downloadt.advantech.com/ProductFile/PIS/ASMB-823I/Product%20-%20Datasheet/ASMB-823I_DS(01.19.15)20150123155323.pdf)

Explanation: Four PCIe x16 slots (Gen3), two PCIe x8 (Gen3)