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C4040-251

Power Systems with POWER8 Scale-out Technical Sales Skills V1

Personally have fixed answers of Q2, Q11, Q31, Q47, Q59 and Q77. Now they become most accurate study questions. Just focus this file and sit in your exam. Try guys and if any suggestion please update.

Exam A

QUESTION 1

What is a characteristic of virtualizing workloads?

- A. Processors are virtualized per core.
- B. Greater virtualization reduces the cost of workloads.
- C. Resources must be shared or dedicated.
- D. Greater virtualization increases the cost of computing

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

A customer wants to save on IBM i licensing costs:

They have three configurable processors and one IBM i license.

LPAR1 is running IBM i with .5 CPU

LPAR2 is running IBM i with .5 CPU

LPAR3 is running AIX with 1 CPU

All of the LPARs are uncapped.

They want to limit the IBM i LPARs to using one core.

How can the customer enforce the limit and save on their IBM i licensing costs?

- A. Put the IBM i LPARs in a shared processor pool with one core.
- B. Put the AIX LPAR in a shared processor pool with one core.
- C. Set the entitlement of each IBM i LPAR to "one"
- D. Change the AIX partition to have .5 CPU entitlement.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

Which of the following Linux distributions supports Little Endian (LE) on POWER8 processor-based?

- A. RHEL5
- B. SLES 11
- C. RHEL6
- D. Ubuntu 14

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www-01.ibm.com/support/knowledgecenter/linuxonibm/liaam/liaamdistros.htm>

QUESTION 4

What benefit does the CAP I feature of POWER8 provide?

- A. The ability to attach accelerators that have shared memory access that is coherent with the system's processors.
- B. An implementation of AME on a hardware accelerator.
- C. The ability to dispatch multiple virtual machines on a single core at the same time.
- D. An alternative to memory lock base synchronization.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

A customer wants to run seven AIX 7.1 partitions in a virtualized environment. The server is a 20-core S822, with 128GB of memory.

Which of the following I/O adapter combinations satisfies the requirement?

- A. (4) PCIe4-port 1GbE
(4) PCIg-4x 2-port 8Gb Fibre Channel
- B. (4) PCIe4-port 1GbE
(4) PCIe LP 8Gb 2-port Fibre Channel
- C. (4) PCIe-2 LP 4-port 1 GbE
(4) PCIe-2 LP 8Gb 2-port Fibre Channel
- D. (4) PCIe LP 4-port 1 GbE
(4) PCIe-4x 2-port 8Gb Fibre Channel

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

Which of the following is open source software that hosts the virtual machines on a KVM hypervisor?

- A. QEMU
- B. OPAL
- C. PHYP
- D. CAPI

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

A customer wants to show workloads in real time, highlighting possible problems or bottlenecks.

What will satisfy the requirement?

- A. System Director
- B. PowerVC
- C. PowerVP
- D. PowerSC

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

A customer is ordering a 4-core S814 with the following partitions:

An IBM i partition capped at 1.0 processors

A second IBM i partition capped at 0.5 processors, running a Web Sphere application.

An AIX partition capped at 0.5 processors.

A Linux partition capped at 0.5 processors.

How many WebSphere licenses are required to support this configuration?

- A. 4.0
- B. 1.0
- C. 30
- D. 2.0

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

A customer wants to have an AIX PowerHA cluster span two sites separated by 100 kilometers.

Which option will span the two sites?

- A. PowerHA SystemMirror Standard Edition
- B. PowerHA SystemMirror Enterprise Edition
- C. PowerHA Smart Assists
- D. Power HA Cluster Aware AIX

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

A customer would like a Scale-out server solution with eight cores. They require three partitions. Each partition needs redundant LAN and SAN adapters.

Which solution supports the minimum requirement?

- A. (2) 146GB disk drives
(2) 4-port LAN
(2) 4-port SAN adapters
- B. (6) 146GB disk drives
(6) 4-port LAN
(6) 4-port SAN adapters
- C. (4) 146GB disk drives
(4) 4-port LAN
(4) 4-port SAN adapters

- (2) VIO Servers
- D. (2) 146GB disk drives
 - (2) 4-port LAN
 - (2) 4-port SAN adapters
 - (1) VIO Server

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

A customer has a 4-node cluster serving a few different applications. The storage requirements are not clearly defined and would be very unpredictable.

How would shared storage pools benefit this customer?

- A. They reduce the total required storage by half.
- B. They eliminate the need for multiple repository disks.
- C. They reduce I/O bandwidth by sharing the LUNs.
- D. They reduce the time and effort needed to allocate storage.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

A customer is considering a fully-virtualized infrastructure to be built on Power Systems.

Which capability would allow storage virtualization, and reduce the effort of adding storage to client partitions for the Power system administrator?

- A. vSCSI
- B. NPIV
- C. SSP
- D. SR-IOV

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

A customer needs a new server for their database currently running on a 16-core POWER7 4.1 GHz based server. Oracle has informed the customer that their SPARC T5 based servers are best suited for running databases, because the SPARC T5 has eight threads per core, while the current servers only allow for up to four threads per core.

Which of the following statements could be correctly used to repudiate the Oracle claim?

- A. Databases are mostly single-threaded workloads. Scale-out POWER7 servers have higher clock speeds and can scale to more cores than SPARC T5 servers.
- B. Oracle T5 Servers are engineered to run Oracle workloads faster. Non-Oracle workloads will run slower on their hardware due to the amount of threads.

- C. More threads will implicate more licensing for the database software. Less threaded processors provide a better TCO by reducing the licensing.
- D. The number of threads cannot guarantee better performance. Servers based on POWER8 have better per core performance in benchmarks when compared to SPARC T5 based servers.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

The Payment Card Industry Data Security Standard (PCI DSS) has the following requirements to meet compliance:

"Secure audit trails so they cannot be altered."

"Verify that current audit trail files are protected from unauthorized modifications via access control mechanisms, physical segregation, and network segregation."

Which PowerSC offering will support these requirements?

- A. Trusted Network Connect
- B. Trusted Logging
- C. Trusted Audit
- D. Trusted Surveyor

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

What supports the Easy Tier function for an S822?

- A. (8) drives with a split backplane
- B. (12) drives with a split backplane
- C. (8) drives with a second SAS controller
- D. (12) drives without split backplane

Correct Answer: C

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>

QUESTION 16

A client needs to analyze data in motion in order to be able to respond to millions of events as they happen per second.

Which offering will satisfy their requirement?

- A. IBM Infosphere Master Data Management
- B. IBM Infosphere Big Insights
- C. IBM Infosphere Clinical Analytics
- D. IBM Infosphere Streams

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 17

What provides a comparison of Power Systems to competitors for applications?

- A. SPECint
- B. RPE2
- C. SPECfp
- D. TPM

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 18

A customer is setting up two new partitions where IBM i is hosting the storage. The customer's high priority is to complete the backups to physical tape as fast as possible, while automating the movement of the single tape library between the partitions. Tape library functions are needed for the backup.

Which combination of storage virtualization will achieve the customer's backup priority?"

- A. One very large virtual disk unit sized to fit the partition with a virtual iSCSI interface to the tape library.
- B. Virtual disk units sized to provide 10 disk units, with the tape and DVD virtualized by IBM i.
- C. Larger virtual disk units and a SAS adapter on each partition, with dual SAS adapter on the tapelibrary.
- D. At least six virtual disk units with the tape drive virtualized with VIO Server and NPIV

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 19

A customer with IBM i and AIX platforms wants to take advantage of a recently acquired XIV Storage System, TS3500 and POWERS system. They are planning to implement 10 LPARs and need to have access to the tape library for SAN backups. The customer also wants to minimize the downtime by VIO Server maintenance.

Which option will satisfy their requirements?

- A. (1)VIO Server, LPARs using SSP for disks, and NPIV for tape library
- B. (2) VIO Servers, All LPARs using NPIV virtualization
- C. (2) VIO Servers, LPARs using vSCSI for disks, and NPIV for tape library
- D. (1) VIO Server, LPARs using vSCSI for disks, and NPIV for tape library Manage the VIO Server updates with alternate disk update method

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20

An AIX customer wants to be sure they can update their SAN multipath drivers with a minimal amount of risk, while still being able to perform Live Partition Mobility operations.

Which disk connectivity technology supports these requirements?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

A customer running AIX wants to run DB2 on a new S824 server with uncapped partitions. The customer has licensed DB2 for 15 of the 24 active cores and will use it in multiple partitions.

How can the customer ensure that DB2 does not exceed the number of licenses purchased?

- A. Create 15 shared processor pools for the DB2 partitions.
- B. Limit the number of virtual processors on each DB2 partition to 15.
- C. Use partitions that cannot use more processor capacity than its assigned processing capacity for the DB2 partitions.
- D. Use a 15-core shared processor pool for the DB2 partitions.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

A customer wants to consolidate AIX, Linux and IBM i workloads. They are also thinking about Analytic applications and a small-to-mid-size database.

Which of the following servers satisfies the customer's requirements?

- A. S822L
- B. S822
- C. S812
- D. S824

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

A customer wants to move from an IBM Power 740 to an IBM Power S824.
The 740 contains:

(4) disks in the CEC
(10) disks in a FC #5802 (I/O drawer with disks)
(12) disks in a EXP12S
(24) disks in a EXP24S How many disks can be reused with the S824'?

How many disks can be reused with the S824?

- A. 14
- B. 38
- C. 28
- D. 24

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

A customer wants to install a POWER8 tower system at a remote site. The system will run Red Hat Linux.

Which system is the best option for the requirement?

- A. S812L
- B. S822L
- C. S824
- D. S814

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

A customer would like to consolidate their five AIX servers to one S822 server, in a virtual environment with two VIO Servers for boot drives.

What is the minimum requirement?

- A. IVM
- B. ASMI
- C. PuTTY
- D. HMC

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

What is the main function of the POWER8 CAPI feature?

- A. It improves memory bandwidth.
- B. It improves cache coherency.
- C. It increases the clock frequency speed.

D. It connects auxiliary processors such as GPUs.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

What does the numeral "4" represent in a model S824?

- A. The number of power supplies
- B. The number of installed cores
- C. The number of PCIe slots
- D. The number of rack EIA units.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

A customer wants to use SAN FlashCopy with Geographic Mirroring to synchronize an IBM i application between two sites. It is required that the application can be halted and moved to the remote system without disrupting other applications.

Which of the following describes a required application characteristic to support these requirements?

- A. The application code and data must reside in an IBM i user Auxiliary Storage Pool (ASP).
- B. All the application data objects must be defined to remote journaling.
- C. The application code and data must reside in the IBM i system Auxiliary Storage Pool (ASP).
- D. The application code and data must reside in an IBM i Independent Auxiliary Storage Pool (ASP).

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

Which of the following RAS features, previously available only on POWER 7+ midrange and enterprise systems is now available on POWER8 scale-out servers?

- A. Active Memory Mirroring, which maintains two identical copies of the Power Hypervisor in memory at all times.
- B. A redundant Service Processor with the ability to dynamically fail over from the primary service processor to a secondary for solid service processor fault.
- C. An on-chip controller on the processor module, which handles Power Management and Thermal Monitoring without a need for a separate controller.
- D. Active Memory Sharing, which can be exploited to increase memory utilization on the system by decreasing the system memory requirement.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

What virtualization management solution will allow a customer to implement Ubuntu, Red Hat and SUSE distributions on POWERS scale-out servers?

- A. PowerKVM
- B. PowerVC
- C. PowerVM
- D. Linux on Power (LoP)

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

Which technology provides simple virtualization for Ethernet, with quality of service controls that specify minimum bandwidth per partition?

- A. SR-IOV (Single Root I/O Virtualization)
- B. SEA (Shared Ethernet Adapter)
- C. HEA (Host Ethernet Adapter)
- D. CNA (Converged Network Adapter)

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

A customer is willing to consolidate several servers running Oracle and DB2 databases from several departments on a single server, while keeping them administratively separate.

They are concerned about licensing after consolidation, because they are not willing to pay for Oracle licenses for the cores running DB2 and pay for DB2 licenses on cores running Oracle. What would be the best method to handle this situation, to make the environment compliant and achieve the customer demands?

- A. Create two capped LPARs, one for Oracle databases and other for DB2 databases, and make sure the LPARs have the right amount of cores assigned to them according to customer existing licenses
- B. Create one capped LPAR per consolidated server, on each LPAR profile page on the HMC select the corresponding database type, and make sure DB Isolation option is checked
- C. Create one uncapped LPAR per consolidated server, monitor CPU usage and keep a spreadsheet up-to-date to account for the databases licenses used for compliance audits.
- D. Create two Shared Processor Pools, one for Oracle and another for DB2, and consolidate the servers on distinct LPARs on the corresponding pool

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

A customer has two Power 570 servers that need to be replaced to accommodate company growth.

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The first server runs a transactional workload with high server usage during the day (8am-8pm)

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The second server runs analytic queries based on the transactional data during the night (10pm-6am).

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A technical sizing analysis determined that each server would require (18) POWER8 3.52GHz cores and 160GB RAM, considering the needed growth.

What would be the most cost-efficient way to satisfy the customer needs?

- A. (1) new Power S824 with 24 cores and 384GB and DLPAR CPU resources among LPARs
- B. (1) new Power 770 with 36 active cores and 384GB active, virtualized with capped LPARs
- C. (1) new Power S824 with 36 cores and 384GB, virtualized with capped LPARs.
- D. (2) new Power S824 with 20 cores and 192GB RAM each.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

What feature of IBM i prevents editing object code?

- A. Single level storage
- B. Integrated antivirus
- C. Authorization lists
- D. Object-Oriented Architecture

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www.ibm.com/developerworks/library/os-php-7oohabits/>

QUESTION 35

A customer requires each AIX or IBM i LPAR to have access to two different VLANs but without VLAN tagging. They plan to have dual VIO Servers on the same POWER8 system, using EtherChannel and SEA for each VLAN.

What is the minimum requirement to support the configuration?

- A. (2) quad port Ethernet adapters
- B. (4) quad port Ethernet adapters
- C. (2) dual port Ethernet adapters
- D. (4) dual port Ethernet adapters

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

A customer has a requirement for four partitions, each with 1TB of Storage They want to put a new S814

machine in. but only have 4U available in the rack.

Which POWER8 option accomplishes this?

- A. Order a 6-core machine with the Expanded Function backplane with (18) SFF SAS 283GB drives, all the drives owned by VIO Server and then allocated to each partition.
- B. Order a 6-core machine with the Split backplane, with each side having (4) 283GB drives for two partitions and two sets of EJ03 Disk Controllers each connected to a 5887 with (4) 283GB disks each for the other two partitions.
- C. Order a4-core machine with the Expanded Function backplane with (10) SFF SAS 571GB drives, all the drives owned by VIO Server and then allocated to each partition.
- D. Order a 4-core machine with the Split backplane with (18) SFF SAS 283GB drives, all the drives owned by VIO Server and then allocated to each partition.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

A customer consolidated several environments running IBM i, Linux and AIX into an S824. Now the system's installed memory is insufficient. The customer believes that the Active Memory Expansion feature may resolve the memory issue.

Which of the following operating systems is capable of using the compression and decompression technology to resolve the issue?

- A. AIX
- B. IBMi
- C. Red Hat
- D. SUSE

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

Which tape backup option is supported for migration from a POWER6 520 with a SCSI attached external LTO-3 tape drive to a POWER8 S814, and is read compatible with LTO-3?

- A. Migrate the SCSI adapter to the S814 and attach it to an existing LTO-3 tape drive.
- B. Add an SAS adapter and external LTO-5 tape drive.
- C. Add an internal LTO-4 tape drive in the CEC.
- D. Add an SAS adapter and external LTO-6 tape drive.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

Which feature is recommended to move memory resources from one LPAR to another?

- A. Dynamic LPAR operation
- B. Active Memory Sharing
- C. Active Memory Expansion
- D. Live Partition Mobility

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

Which of the following statements is true regarding CAPI?

- A. CAPI allows for adapters like FPGAs and GPUs to bypass the CPU and access the memory directly, allowing for faster data access and reduced CPU utilization
- B. CAPI enabled servers use general purpose accelerators that increase the processor clock without compromising stability and RAS.
- C. CAPI allows supported third party CPUs (Oracle, Intel, AMD, etc.) to be installed to speed up processing of specific workloads such as big data, compression or Java.
- D. CAPI is designed for High-Performance Computing only. Commercial workloads cannot benefit from CAPI acceleration

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

A customer has a partitioned system running IBM i and Domino. The customer is considering a new system to replace the existing system and wants to add a WebSphere application and an AIX application.

Which of the following will assist in sizing the new system?

- A. Performance Management (PM) for Power Systems
- B. Workload Estimator (WLE)
- C. SnapShot
- D. System Planning Tool (SPT)

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42

Which Power Systems tool uses published benchmark data to create a simple cost comparison between Scale-out and x86 servers?

- A. Quick Reference Tool
- B. Workload Estimator Tool
- C. TCA-TCO Seller Tool
- D. Server Consolidation Tool

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

Which power option is provided with the S822?

- A. (1)1400 Watt 200-240 Volt
- B. (2) 1400 Watt 200-240 Volt
- C. (2)1400 Watt 125-240 Volt
- D. (1)1400 Watt 125-240 Volt

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

A customer will be consolidating a number of IBM i and AIX partitions from several older servers onto an existing S824. These partitions are parts of various operating groups within the customer and require connectivity to various private networks and network redundancy. The server utilizes SAN Storage and dualVIO Server partitions.

Which solution satisfies the customer's requirements?

- A. Add two additional VIO Server partitions each with a quad port Ethernet card. Create an SEA in VIO Server to each port of the Ethernet card.
Configure virtual Ethernet connections to the VIO Server partitions for each SEA with one flagged priority.
- B. Utilize two of the IBM i Partitions to bridge to the outside. Attach a quad port Ethernet IOA to each partition and bridge the ports to internal VLANs needed by the guest partitions.
- C. Add two SR-IOV capable Ethernet adapters.
Allocate each of them to the partitions and create the connections to the correct VLANs as needed.
- D. In the existing VIO Server partitions, add a quad port Ethernet card. Create an SEA in VIOS to each port of the Ethernet card. Configure virtual Ethernet connections to the VIO Server partitions for each SEA with one flagged priority.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

A client is considering hardware platforms for their Hadoop implementation.

Which of the following is an advantage of a Power Systems solution over an x86 solution for their implementation?

- A. Support for two copies of data
- B. Support for the Hadoop File Placement Optimizer
- C. Support for IBM Elastic Storage
- D. Built-in High Speed Cluster Interconnect

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46

As compared to POWER7/7+, what feature of POWER8 processor technology enables more efficient processor utilization in support of highly threaded applications?

- A. Decimal floating point execution
- B. Simultaneous Multi-Threading
- C. Out of order execution
- D. Single precision floating point

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47

A customer currently is running a POWER7 6-core 720 with 3 IBM i cores for production, and utilizing PowerHA to a POWER6 2-core server as their backup machine.

The production machine also has unlimited users, IBM i Access users, SOL, and ILE Compilers. They are only using the backup machine to do backups, but it is not a CBU; it has only one IBM i and one licensed PowerHA core.

The customer wants the backup server to have the same capacity as the production server so it can be a true high availability server.

Which of the following is the correct course of action at the least cost?

- A. Upgrade the POWER6 to a POWER7.
Add two additional IBM i and PowerHA Licenses, IBM i and IBM i Access users SQL and ILE Compilers
- B. Upgrade both servers to POWER8 and transfer all the software to the new POWER8 servers.
- C. Purchase a new POWER8 to replace the POWER6 server and transfer the software from the POWER6. Designate the POWER8 as a CBU to the POWER7.
- D. Purchase two new POWER8 servers designating one of them as a CBU.
Transfer all the software from the POWER7 to one of the POWER8 servers and all the IBM i and PowerHA software from the POWER6 to the other POWER8 server.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 48

What is the number of threads that can be processed for maximum throughput on a POWER8 core?

- A. 12
- B. 4
- C. 8
- D. 2

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

Which of the following statements correctly describes a difference between the S814 and S824?

- A. The S814 is a tower server and the S824 can be either a tower or rackmounted server
- B. The S814 has one socket and the S824 has up to two sockets
- C. The S814 can have one or two sockets and the S824 has four sockets.
- D. The S814 uses 1U of rack space and the S824 uses 2U of rack space.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50

A customer is ordering a 4-core S814 with the following partitions. The default processor pool will be used.

- .
An IBM i partition capped at 1.0 processors.
- .
A second IBM i partition capped at 0.5 processors.
- .
An AIX partition capped at 0.5 processors.
- .
A Linux partition capped at 0.5 processors.

How many IBM i processor licenses are required to support this configuration?

- A. 3.0
- B. 2.0
- C. 1.0
- D. 4.0

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 51

A customer needs faster response time from their database server and is considering purchasing POWERS. They are familiar with Easy Tier, and have heard that they can use it locally on some servers.

Which feature(s) would enable this function?

- A. Enhanced backplane (EJOP)
- B. Standard backplane (EJON)
- C. Enhanced backplane (EJOP) with the Split backplane feature (EJOS)
- D. Standard backplane (EJON) with optional SSD cage (EJTM)

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 52

How can system software charges be reduced when migrating from POWER6 to a POWER8 Scale-out server?

- A. Only activate the necessary cores.
- B. Select the per-socket licensing model.
- C. Configure the system with POWER8 Dual-Core Modules (DCM)
- D. Disable all un-needed cores with Processor Deconfiguration.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 53

A large manufacturer wants to consolidate their existing AIX and Linux environments to POWER8. The customer has four AIX servers and twelve Ubuntu servers.

Which solution will satisfy the requirements?

- A. (1) S822L with PowerKVM
- B. (1)S822 with PowerVM and (1)S822L with PowerKVM
- C. (1) S822L with PowerVM
- D. (1) S822 with PowerVM and PowerKVM

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 54

A customer is interested in migrating Little Endian (LE) Linux workloads to POWER8 servers running PowerKVM.

Which Linux distribution will satisfy the requirement?

- A. Ubuntu
- B. RedHat
- C. CentOS
- D. SUSE

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55

A customer with POWER8 processor-based systems needs an application server that supports environments from single server and medium-sized configurations, to large deployments requiring tier clustering over multiple application server instances. Which IBM product family will satisfy the customer's requirements?

- A. Rational
- B. WebSphere

- C. Information Management
- D. Cognos

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 56

A customer will be using an S822L and PowerKVM. They want to know how they will attach a console to their machine over the network during installation.

Which console solution should they use?

- A. Virsh
- B. HMC
- C. IVM
- D. SOL

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57

An AIX customer is running AIX 5.3 on a POWER7 machine and wants to run this workload on a POWER8 server without upgrading their operating system.

What is their best option to migrate their workload?

- A. PowerHA failover
- B. Live Partition Mobility
- C. PowerVC
- D. Versioned WPAR

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 58

Which of the following is a stand-alone offering in the PowerSC family, that provides a consolidated view of the virtual data center VM network isolation landscape?

- A. Real-time Compliance Management
- B. Trusted Surveyor
- C. Trusted Firewall
- D. Trusted Network Connect

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 59

A customer wants to be able to automatically failover their Power System nodes that are running AIX in the event of a disaster. The customer will place the servers in No data centers that are in different geographies

Which IBM product will satisfy the customer's requirement?

- A. IBM Metro Mirror
- B. PowerHA SystemMirror for AIX Enterprise Edition
- C. Geographic Logical Volume Manager
- D. General Parallel File System (GPFS)

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60

An AIX customer plans to boot their LPARs from the SAN and wants the ability to easily update multipathing software in their VIO Server clients.

Which disk option should be used for their rootvg?

- A. NPIV
- B. vSCSI
- C. NFS
- D. iSCSI

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 61

What is required to implement Live Partition Mobility (LPM)?

- A. The source and destination servers should access the same fabrics.
- B. The source and destination servers should be managed by the same HMC.
- C. The source and destination servers must have the same quantity of Virtual I/O Servers.
- D. All LPARs should have the same vendor Storage Subsystem

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 62

What is used to provide basic deployment and management firmware updates, host monitoring and Virtual Machine templates of PowerKVM hosts from a GUI?

- A. virsh
- B. PowerVC
- C. Kimchi

D. HMC

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 63

A customer has a Power System S824 server with the following components:

- . (1) 8-core 4.15 GHz POWER8 processor
- . (1) 8 Gigabit PCI Express Dual Port Fibre Channel adapter
- (1) PCIe2 Quad Port 1GbE adapter
- . PowerVM Standard Edition
- . (1) VIO Server using one core, and (7) guest LPARs each using one core

The customer needs to add a redundant VIO Server and implement another three LPARs, each with one core.

In addition to one 8 Gigabit PCI Express Dual Port Fibre Channel adapter, which of the following components must be ordered to satisfy the minimum requirement?

- A. (1) 4-core POWER8 processor
(1) PCIe2 Quad Port 1GbE adapter
(4) licenses of PowerVM Express Edition
- B. (1) 4-core POWER8 processor
(1) PCIe2 Quad Port 1GbE adapter
(4) licenses of PowerVM Standard Edition
- C. (1) 8-core POWER8 processor
(1) PCIe2 Quad Port 1GbE adapter
(16) licenses of PowerVM Enterprise Edition
- D. (1) 8-core POWER8 processor
(1) PCIe2 Quad Port 1GbE adapter
(8) licenses of PowerVM Standard Edition

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 64

Customer recently installed a new six-core S824, with (18) SFF-3 bay storage HDD disk backplane completely filled . They want to include (4) SSD solid state drive, the data in order to improve the thermal performance. Customers want to avoid adding a EXP24S I / O drawer to place the SSD costs .

Which of the following to meet customer requirements in order to improve the performance of hot data ?

- A. plus an eight-slot 1.8-inch solid state drive cage backplane
- B. plus an SSD SAS bay PCIe Riser
- C. plus a PCIe RAID and SSD SAS adapter
- D. plus a USB SSD cage connection

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 65

In what case , all I / O must be virtualized ?

- A. When an AIX 7 WPAR belong to a global environment .
- B. When an IBM i partition belong to dry another IBM i partition.
- C. When a logical partition when using a shared storage pool (SSP).
- D. When using PowerVM Enterprise Edition and Enterprise Edition with PowerHA .

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 66

A company wants to integrate six existing AIX workloads onto a single logical partition six Power8 single server .

Which server options to meet the requirements?

- A. S822 is equipped with an HMC
- B. S822L with PowerVM
- C. S824 with PowerKVM
- D. S822 is equipped with PowerVM Express Edition

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 67

Which components of PowerKVM provide I / O virtualization ?

- A. IPMI
- B. virsh
- C .QEMU
- C. Kimchi

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 68

The shared storage pool (SSP) was established in Cluster Aware AIX (CAA) Which of the following can provide the kind of high-value features ?

- A. client logical partition memory thin provisioning (Thin provisioning).
- B. Zero configuration operations to implement NPIV storage.
- C. throughout the cluster VIO server synchronization hard name.
- D. Logical partitions automatic failover between Power Systems servers.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 69

Customers are migrating from the Power7 to Power8 systems. In the new VIO server environment, they want to use storage multipathing client logical partition.

Customers should use something to meet their requirements ?

- A. NFS
- B. NPIV
- C. iSCSI
- D. vSCSI

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 70

There are 20 partitions on the customer's Power8 system , want to allocate additional storage from non-IBM SAN to each partition. License fees for all partitions drivers and multi-path software beyond the current budget.

Which one of the following technologies will meet their demands in the budget ?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 71

Customers want to have a mix of the S824 SSD and HDD, using the extended functions (18 disks) backplane (EJOP), and do not want to use the Easy Tier feature.
How to achieve ?

- A. Use RAID 5T2 configure all drives.
- B. on SSD and HDD ARRAY different configurations.
- C. The SSD installed in EJTM 8-Bay 1.8 SSD cage.
- D. Use backplane isolation, and put on the back side of the SSD , HDD on the other side .

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 72

A customer interest in the PostgreSQL server workloads to Power8 , but more concerned about the cost .

Compared with x86 servers , which system of pricing the most competitive ?

- A. S822
- B. S814
- C. S824L
- D. S812L

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 73

Customer has multiple partitions running applications. Due to the user's different regions, each district will have a lot of memory requirements in the different times of day .

Which memory technology can be used to best achieve dynamic shared memory between logical partitions ?

- A. Virtual Memory Pool
- B. Virtual Memory Boost
- C. Active Memory Sharing
- D. Active Memory Expansion

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 74

Customers to migrate to the 6-core Power6 520 S814, Which backplane RAID 5 provides the best performance ?

- A. detachable back with 6 + 6 SFF-3 bracket and the second SAS controller
- B. with (12) SFF-3 bracket and integrated SAS storage controller backplane
- C. with (18) SFF-3 bracket and dual SAS controllers and write cache storage backplane
- D. detachable back with PCIe3 12GB Cache RAID SAS adapter and EXP24S of

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 75

Which technology provides virtual machine dedicated virtual resources, improve QoS, remove the I / O virtualization load ?

- A. PowerVM
- B. CNA (converged network adapters)

- C. FCoE(Fiber Ethernet protocol run)
- D. SR-IOV (single point of management I / O virtualization)

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 76

Compared with 720 quad-core , four -core S814 What added to the standard features to improve RAS capabilities ?

- A. RAID 0
- B. Chipkill Memory
- C. Support PCIe Hot
- D. alternate processor recovery (Alternate Processor Recovery)

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 77

In addition to the media slot , S824 GEC also integrates Which of the following ?

- A. (6) USB port
- B. (10) Gb HMC port
- C. an RDX module
- D. a half-height LTO drive slot

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 78

SAN team hopes customers will easily be able to map each LUN to a specific WWPN for each client logical partition on the Power8 server.

Which technology should be implemented to meet the requirements?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 79

Dynamic partition migration , the following is required ?

- A. PowerVM Enterprise Edition
SAN disk system
Virtual Ethernet
- B. dedicated processor
PowerVM Enterprise Edition
Virtual Ethernet
- C. dual VIO server
PowerVM Enterprise Edition
SAN attached disk
Two virtual processors
- D. dedicated processor
Dual VIO server
SAN disk system
Virtual Ethernet

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 80

Customers expect their virtual environment network and storage I / O traffic will be very large . They are interested in the I / O load separation. They also hope to be in the case of the VIO server without downtime for maintenance.

Which option to meet the requirements ?

- A. (2) VIO servers , each handling a part of the flow
- B. (4) VIO servers , each handling a part of the flow
- C. (4) VIO server , wherein two processing network , handling two storage
- D. (2) VIO server , wherein a processing network , a processing memory

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 81

Easy Tier feature on what support S822?

- A. (8) drives and a split backplane
- B. (12) drives and a split backplane
- C. (12) drive , do not split backplane
- D. (8) SAS drives and an auxiliary controller

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 82

Customers have a server using IVM as a logical partition management . They want to implement PowerVC. Which PowerVC versions to meet the requirements?

- A. PowerVC Entry
- B. PowerVC Express
- C. PowerVC Standard
- D. PowerUC Enterprise

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 83

A Power 740 customer with 4 cores licensed to AIX is planning to add 4 additional cores and a partition for IBM i. They have sized the new IBM i workload at 1.7 cores and AIX will use the other 6.3 cores. What software will be necessary to enable this solution'?

- A. PowerVM Standard Edition licensed for 8 cores
AIX Standard Edition licensed for 7 cores
IBM i licensed for 2 cores
- B. AIX Enterprise Edition licensed for 6 cores
IBM i licensed for 2 cores
- C. PowerVM Express Edition licensed for 8 cores
AIX Express Edition licensed for 7 cores
IBM i licensed for 2 cores
- D. PowerVM Standard Edition licensed for 8 cores
AIX Standard licensed for 6.3 cores
IBM i licensed for 1.7 cores

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 84

A customer has let their Software Maintenance (SWMA) expire and needs to activate additional processors on their Power 770. What does the customer need to purchase?

- A. Additional licenses for the new processors.
- B. New licenses for the both the existing and new processors.
- C. After License Fee for both the new and the old processors.
- D. Additional licenses for the new processors and After License Fee for the existing processors.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 85

A sales professional is engaged in a competitive sales situation against a non-IBM solution that is unfamiliar to them. Which resource should be engaged first?

- A. CompeteLine
- B. Migration Factory
- C. TCO analysis tools

D. Pre Sales Advisor tool

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 86

A customer has several dedicated LPARs. The key application in one LPAR temporarily needs more processing power. How can performance be improved?

- A. Mirror the LPAR to a second system
- B. Add a second LPAR to the application
- C. Change dedicated LPARs to shared LPARs
- D. Reduce the number of LPARs on the system

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 87

Which of the following can be used to provide a basis for proving that Power Systems have a lower cost of ownership than x86 systems?

- A. rPerf and CPW measurements
- B. Analysis report from the Alinean Tool
- C. ISV recommendations and lower IBM financing costs
- D. White papers that illustrate IBM's leadership technology

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 88

Which of the following features are unique to PowerKVM ?

- A. vTPM
- B. SR-IOV
- C. Support Ubuntu
- D. Factory Integration Linux

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 89

An existing IBM customer needs to acquire a new Power Systems server with the following characteristics:

Must support 12 processor cores

Must accommodate the largest number of adapters in the system unit Must fit within 4U of existing rack space

Which of the following should be proposed'?

- A. Power 720
- B. Power 730
- C. Power 740
- D. Power 750

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 90

What energy capability of Power Systems can be used in data centers to restrict server energy consumption, especially in cases where the data center might be nearing the limit of the energy it can provide?

- A. Power Capping
- B. EnergyScale for I/O
- C. Processor Core Nap
- D. Dynamic Power Saver

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 91

What is the minimum HMC model required to manage POWER7 or POWER7+ servers?

- A. 7310-CR2
- B. 7310-CR3
- C. 7310-CR4
- D. 7042-CR5

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 92

A Chief Financial Officer (CFO) has requested a brief review of an IBM Power proposal before providing final approval. Which of the following are key topics that should be included in the executive summary?

- A. How Power Systems supports customer objectives Acquisition cost Total Cost of Ownership
- B. Acquisition cost Listing of software products How Power Systems supports customer objectives
- C. Power Systems overview Proposed financing Total Cost of Ownership
- D. Power value proposition Acquisition cost Hardware features

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 93

Which of the following features demonstrate the versatility of Power Systems?

- A. Support for RAID-1 thru 5
PCIe Gen 2 expansion drawers
- B. Choice of AIX, IBM i and Linux
Ability to run Windows in a WPAR
- C. Highly efficient partition virtualization
Virtualized I/O with redundancy
- D. Support for LDAP
Support for Oracle applications on PowerLinux

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 94

Which of the following Power Systems servers offer Capacity on Demand (CoD)?

- A. Power 71Y, 7R2
- B. Power 770, 780, 795
- C. Power 720, 740, 750
- D. Power 750, 755, 770

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 95

A prospective customer is running a database application that cannot be upgraded. They plan to replace it with a DB2-based server environment that can scale in the future. The prospect has asked why anyone would choose Power Systems servers when Intel-based servers cost less. Which of the following is an effective response?

- A. DB2 on Power Systems delivers more than ten times the throughput per core than on Intel due to exploitation of SMT.
- B. Core for core, Intel-based servers have more expensive DB2 software licensing costs when compared to Power Systems.
- C. Power Systems servers offer a lower TCO due to greater processor power, virtualization technologies and both horizontal and vertical growth.
- D. Power Systems servers offer superiority in energy-management technologies and use dramatically less energy while generating much less heat.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

