

IBM

Exam C9010-251

Power Systems with POWER8 Scale-out Technical Sales Skills V1

Version: 9.0

[Total Questions: 110]

Question No : 1

A customer will be purchasing a POWER8 Scale-out server, and will be launching a heavy database application.

Which operating system is unified with a database?

- A. AIX
- B. IBM i
- C. Windows
- D. Linux

Answer: D

Explanation: Optimize Linux Workload Consolidation and scale out of workloads at a lower cost of ownership .PowerKVM v2.1.1 Open Virtualization Choice for Linux-only Scale-out Servers

Reference: <http://www.slideshare.net/albertspijkers/power-8-systems-announcement-and-overview>

Question No : 2

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 rack mounted 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.

Answer: B

Question No : 3

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

Answer: B

Question No : 4

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 Power SC offering will support these requirements?

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

Answer: B

Question No : 5

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 POWERS 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 POWERS have better per core performance in benchmarks when compared to SPARC T5

based servers.

Answer: B

Question No : 6

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.

Answer: C

Question No : 7

A customer will purchase an SB24 server to replace a Power 520 with IBM I V5R4. Middleware integration and securing business critical data is important to the customer.

What will allow the customer to support all of the requirements?

- A. Trusted Firewall and Trusted Surveyor
- B. DB2 Row and Column Access Control
- C. PowerSC
- D. Tivoli Directory Server

Answer: C

Question No : 8

Which of the following is a stand-alone offering in the Power SC 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

Answer: C

Question No : 9

A customer has 20 partitions on a POWER8 system and would like to allocate additional storage from their non-IBM SAN to each of the partitions. The cost of the licenses for the drivers and multipath software for all the partitions is higher than the current budget limits.

Which one of the following technologies will satisfy their requirement within their budget?

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

Answer: D

Reference: <http://www.redbooks.ibm.com/redbooks/pdfs/sg247940.pdf> (See Virtual SCSI).

Question No : 10

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

Answer: A

Question No : 11

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 dual VIO 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.

Answer: B

Question No : 12

A customer is migrating a POWER6 520 to a 6-core S814. Which backplane will offer the best RAID 5 performance?

- A.** Storage Backplane with (18) SFF-8 Bays and Dual SAS controllers with write cache
- B.** Split Backplane with PCIe3 12GB Cache RAID SAS adapter and EXP24S
- C.** Storage Backplane with (12) SFF-3 Bays integrated SAS controller
- D.** Split Backplane with 6+6 SFF-3 Bays and second SAS controller

Answer: A

Question No : 13

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 Web Sphere 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. Snap Shot
- D. System Planning Tool (SPT)

Answer: A

Question No : 14

Which of the following features are unique to PowerKVM ?

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

Answer: C

Question No : 15

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.

Answer: C

Question No : 16

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

Answer: B

Question No : 17

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

Answer: D

Question No : 18

A company wants to consolidate six existing AIX workloads onto a single POWER8 server with six LPARs.

Which server option will satisfy the requirement?

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

Answer: D

Question No : 19

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.

Answer: C

Question No : 20

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

Answer: C

Question No : 21

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. IBM i
- C. Red Hat
- D. SUSE