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**Vendor:** IBM

**Exam Code:** C4040-251

**Exam Name:** Power Systems with POWER8 Scale-out  
Technical Sales Skills V1

**Version:** Demo

**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**

**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**

**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**

**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**

**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**

#### **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**

#### **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. Power VC
- C. Power VP
- D. Power SC

**Correct Answer: C**

#### **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 Web Sphere licenses are required to support this configuration?

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

**Correct Answer: B**

#### **QUESTION 9**

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

Which option will span the two sites?

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

**Correct Answer:** B

**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. 14) 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

**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

**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

**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 POWER8 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

**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 Power SC offering will support these requirements?

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

**Correct Answer:** C

**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

**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 Info sphere Master Data Management
- B. IBM Info sphere Big Insights
- C. IBM Info sphere Clinical Analytics
- D. IBM Info sphere Streams

**Correct Answer:** D

**QUESTION 17**

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

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

**Correct Answer:** A

**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 tape library.
- D. At least six virtual disk units with the tape drive virtualized with VIO Server and NPIV

**Correct Answer:** D

**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

**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

**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

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