

# IBM

## Exam C4040-251

### Power Systems with POWER8 Scale-out Technical Sales Skills V1

Version: 9.0

[ Total Questions: 110 ]

**Question No : 1**

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

**Answer: B**

**Question No : 2**

A customer recently installed a new 6-core S824 with the (18) SFF-3 bay storage backplane fully populated with HDDs. They want to include (4) SSDs to improve hot data performance. The customer wants to avoid the cost of adding an EXP24S I/O drawer to place the SSDs.

Which of the following will satisfy the customer's requirement to improve the hot data performance?

- A. A PCIe RAID and SSD SAS adapter
- B. A USB-attached SSD cage
- C. An SSD SAS bay PCIe riser
- D. An 8-bay 1.8-inch SSD cage in the backplane

**Answer: D**

**Question No : 3**

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 : 4**

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

**Answer: C**

Reference:

<http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=an&subtype=ca&appname=g pateam&supplier=897&letternum=ENUS114-061>

**Question No : 5**

Which of the following features are unique to PowerKVM ?

- A. SR-IOV
- B. Integrated Facility for Linux
- C. vTPM
- D. Ubuntu support

**Answer: D**

Reference:[https://www-](https://www-01.ibm.com/support/knowledgecenter/linuxonibm/liabr/liabrp kvmcommands.htm)

[01.ibm.com/support/knowledgecenter/linuxonibm/liabr/liabrp kvmcommands.htm](https://www-01.ibm.com/support/knowledgecenter/linuxonibm/liabr/liabrp kvmcommands.htm)

**Question No : 6**

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 : 7**

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 : 8**

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 : 9**

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 : 10**

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 )

**Answer: D**

**Question No : 11**

Shared Storage Pools (SSPs) are built on Cluster Aware AIX (CAA).

What high-value function does this provide?

- A. Automatic fall-over of LPARs between Power systems servers.
- B. Synchronization of hdisk names in VIO Server across the cluster.
- C. Thin provisioning of storage for client LPARs.
- D. Zero-configuration implementation of NPIV storage.

**Answer: C**

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

**Question No : 12**

What standard feature was added to the 4-core S814 to improve the RAS capability when compared to a 4-core 720?

- A. Chipkill Memory
- B. RAID 0
- C. PCIe Hot Plug Support
- D. Alternate Processor Recovery

**Answer: A**

Reference:<http://www-03.ibm.com/systems/power/hardware/s814/specs.html>(See the RAS feature).

**Question No : 13**

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 : 14**

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

**Answer: B**

**Question No : 15**

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

**Answer: B**

**Question No : 16**

A customer currently is running a POWER7 6-core 720 with 3 IBM i cores for production, and utilizing Power HA 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 Power HA 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 Power HA 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 Power HA software from the POWER6 to the other POWER8 server.

**Answer: B**

**Question No : 17**

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

**Answer: C**



**Question No : 18**

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.

**Answer: B**

**Question No : 19**

A customer is migrating from POWER7 to POWER8 systems. In their new VIO Server environment, they want the storage multipathing to take place in client LPAR.

What should be customer use in order to satisfy their requirement?

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

**Answer: B**

**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**