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QUESTION 1

A customer is considering the purchase of three IBM POWER8 Scale-out systems to run their AIX and IBM i applications. Their main concern is application uptime.

What feature of the POWER8 Scale-out systems should the IBM reseller discuss?

- A. RAS features eliminate disk and memory failures
- B. Live Partition Mobility
- C. PowerVC
- D. Hot swap memory and cores

Correct Answer: B

Demands for system uptime have consistently risen over the years, and while technology features such as high availability have largely minimized unplanned downtime, servers still have to come down for routine maintenance to keep operations running smoothly. This is one of the key benefits of Live Partition Mobility for IBM i, which allows IT to migrate a partition from one physical machine to another.

QUESTION 2

What is an advantage of a POWER8 system compared to an x86 solution?

- A. Supports PCIe Gen
- B. More cores per socket
- C. Lower PVU cost
- D. Greater memory bandwidth

Correct Answer: B

Systems that are designed with fewer components and interconnects have fewer opportunities to fail. Simple design choices, such as integrating processor cores on a single POWER chip, can reduce the opportunity for system failures. The

POWER8 chip has more cores per processor module, and the I/O Hub Controller function is integrated in the processor module, which generates a PCIe BUS directly from the processor module. Parts selection also plays a critical role in overall system reliability.

Reference: [https://www.google.com.pk/url?](https://www.google.com.pk/url?sa=t&andrcrct=j&anddq=andesrc=s&andsource=web&andcd=1&andcad=rja&andduact=8&andved=0CBsQFjAA&andurl=https%3A%2F%2Fwww.ibm.com%2Fdeveloperworks%2Fcommunity%2Fwikis%2Fform%2Fanonymous%2Fapi%2Fwiki%2F61ad9cf2-c6a3-4d2c-b77961ff0266d32a%2Fpage%2Ff1abe75a-a2b2-43dd-9d75-7dae28f5bc5f%2Fattachment%2F3d574a4b-b414-42c8-85b0-f941115d569f%2Fmedia%2F2014-06%2520Power%25208%2520Servers%20)

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QUESTION 3

A customer offers mobile phone plans via a secure website. They requested a meeting to evaluate what IBM has to offer in terms of a hybrid cloud infrastructure and data analytics solution, which will allow them to increase sales of mobile phone plans.

What solution can be proposed to satisfy the requirements?

- A. S814, PowerVM, PowerHA, Worklite, and IBM Cloud Orchestrator
- B. S824, Cognos, IBM Cloud Orchestrator, PowerSC, and PowerVM
- C. S822, ProtecTIER, Websphere, and IBM Cloud Manager with OpenStack
- D. S822, PowerKVM, PowerHA, and Cloud Toolkit

Correct Answer: B

Explanation: With availability beginning June 10, the new scale-out S Class servers include two systems that run Linux exclusively the Power Systems S812L and S822L servers. The three additional offerings, the Power Systems S814, S822 and S824 servers, provide clients the choice of running multiple operating systems including Linux, AIX and IBM i. Available in 1 and 2 socket and 2U and 4U configurations, the starting price of the new servers

Reference: <https://www-03.ibm.com/press/us/en/pressrelease/43702.wss>

QUESTION 4

A customer has a 6TB database that needs a very high performance solution at the lowest cost. Which system is the more cost effective solution?

- A. The S824 with attached FlashSystem 840.
- B. The S824 with integrated SSDs and V5000.
- C. An E870 with internal disk drives and SSDs.
- D. The S824 with internal disk drives and SSDs with Easy Tier.

Correct Answer: A

Huge OLTP workloads running on a database server would normally need a large amount of costly system memory (RAM) used for the database System Global Area (SGA) on the host server. The large SGA might help to keep more frequently accessed data and frequently executed SQL statements in the database buffer cache and libraries to avoid high latency I/O requests to the storage subsystem. IBM FlashSystem 840 is a solution for low latency I/O requests and thus helps reduce the size of the SGA. The fast access of data from IBM FlashSystem 840 minimizes the use of costly memory on the host servers for the applications and databases. Reference: <http://www.slideshare.net/JuanRebes/ideal-storage-for-ibm-power-systems>



QUESTION 5

A customer requires two local redundant VIO servers on their E870.

What should be included with an E870 to satisfy the customer's requirement?

- A. EXP24S disk drawer
- B. Dual Solid-State Drives in the nodes
- C. Split backplane
- D. Dual SAS drives in the nodes

Correct Answer: A

The EXP24S is a "simple" 24-bay SAS disk drawer. It doesn't have any local SAS controller technology or PCI adapter slots. The EXP24S is configured on Power E870/E880 servers using feature code #5887. The EXP24S is two rack units (2U) in size and has two (redundant) power supplies. The 24 disk bays utilize hot-plug, Small Form Factor-2 (SFF-2) drives. Both hard disk drives (HDD) and solid-state drives (SSD) are available. The EXP24S will be pre-configured by IBM manufacturing to operate in one of the following modes:

Mode-1 1 string of 24 disk bays Mode-2 2 strings of 12 disk bays Mode-4 4 strings of 6 disk bays

The mode is specified using a no-charge feature code when the EXP24S is ordered. The EXP24S mode is not changeable after the EXP24S has shipped. HDD and SSD drives can be intermixed within the EXP24s, but must be on separate disk strings. For the most flexibility, Mode-4 is recommended as it provides boot support for up to four VIOS. In Mode-4, each of the disk strings will have six disk bays. This allows each VIOS to have mirrored disk drives for normal operations, mirrored drives for alt_disk_install upgrade and two spare disk bays.

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