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**QUESTION 1**

A customer has an E870 installed in one location and is going to upgrade a Power 770 to an E870 in a second location. Which option describes whether a Technical Delivery Assessment (TDA) is required on the Power 770 to E870 upgrade?

- A. A TDA is only required on the first POWER 770 to E870 upgrade at a customer location.
- B. Since the customer already has an E870 installed in the enterprise, a TDA is not required.
- C. A TDA is not required on a POWER 770 to E870 upgrade.
- D. A TDA is required on all POWER 770 to E870 upgrades.

Correct Answer: D

Explanation: POWER7 processor-based servers, a TDA is required for the Power 770 and above.

Reference: <http://www-03.ibm.com/systems/power/hardware/770/>

QUESTION 2

A customer has a critical invoice application for which the system is mostly underutilized. During the last week of the month, response times become unacceptable due to growth. The customer does not want to pay for a system that is idle most of the time.

What should be proposed?

- A. Capacity Upgrade On Demand
- B. Elastic Capacity On Demand
- C. Power Enterprise Pools
- D. Active Memory Expansion

Correct Answer: D

IBM's POWER8™ systems with AIX feature Active Memory™ Expansion, a new technology for expanding a system's effective memory capacity. Active Memory Expansion employs memory compression technology to transparently compress in-memory data, allowing more data to be placed into memory and thus expanding the memory capacity of POWER8 systems. Utilizing Active Memory Expansion can improve system utilization and increase a system's throughput.

QUESTION 3

An existing IBM customer explains they cannot consider POWER8 because they have a small application that requires AIX 5.2. Which of the following capabilities will allow that application to run on a POWER8 server?

- A. Little Endian support will allow AIX 5.2 to run on any POWER8 server.



B. Versioned Workload Partitions (WPARs) for AIX 7.1 EE can allow workloads dependent on AIX 5.2 to run on POWER8.

C. Logical Partitions (LPARs) enable different versions of AIX to run simultaneously on one POWER8 system.

D. AIX binary compatibility allows applications created on earlier releases of AIX to run unchanged and without recompilation on POWER8.

Correct Answer: A

Support for little endian mode in the POWER8 processor enables a new generation of applications. While I plan to devote future blog entries to this topic, let me take a moment to address some basic facts about the technology. First, the traditional POWER operating systems (AIX, and IBM i) are big endian and will continue to run as such on POWER8 and future systems. Second, Linux operating systems over time will be migrating from being big endian to little endian in an organized way that by no means compromises the support cycles for their existing releases. Third, as little endian operating systems come to market, a new little endian application ecosystem will grow. Given that most applications today support one or more little endian operating systems (Windows or x86 Linux) and at least one big endian operating system (Linux on Power, AIX, or z/OS), this ecosystem should grow quickly. Finally, little endian mode on POWER8 is not a magic bullet: compiled x86 Linux applications will still require a recompile at a minimum because the x86 and Power instruction set architectures are still different. With this new support, Power will simplify on step in the porting process for new applications, but to develop the whole ecosystem will take time.

Reference: https://www.ibm.com/developerworks/community/blogs/fe313521-2e95-46f2-817d-44a4f27eba32/entry/power8_propels_power_systems_into_the_future?lang=en

QUESTION 4

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 5

Which RAS feature is available only on Power Enterprise Systems?

- A. Dual FSPs (Flexible Service Processor)



B. Chipkill memory

C. FFDC (First Failure Data Capture)

D. ECC memory

Correct Answer: B

Reference: http://www.ibmssystemsmag.com/power/businessstrategy/competitiveadvantage/power_vs_intel/ ?page=3

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