C1000-031 Q&As

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QUESTION 1

An IBM I customer has installed a Power System E980 with 32 installed and 20 active cores. They run

VIOS on four cores and three IBM i LPARS in capped mode.

LPAR A uses 8 cores.

LPAR B uses 6 cores.

LPAR C uses 2 cores.

The customer has a requirement to make LPARs A and B highly available and wants to use PowerHA for

IBM i to achieve this.

What is the minimum number of cores that need to be licensed for PowerHA on the primary server?

A. 20 cores

B. 16 cores

C. 14 cores

D. 32 cores

Correct Answer: C

QUESTION 2

A customer has a significant investment in open source software for performing in-memory analytics. This workload is currently deployed on Linux and recent x86 hardware.

What advantage would a POWER9 processor-based server provide this customer?

A. Faster ChipKill correction rate

B. More cache per core

C. More cores per socket

D. Faster PCIe bandwidth

Correct Answer: C

QUESTION 3

Where should adapter configurations be validated before adding or rearranging adapters on a Power Enterprise Server?

A. System Planning Tool

B. System SSIC

C. System HMC

D. System Rack Configuration

Correct Answer: A

Reference: https://www.ibm.com/support/knowledgecenter/POWER6/areab/areab.pdf

QUESTION 4

A customer runs POWER7+ processor-based servers managed by 7042-CR4 HMCs with V7R7.9.0 firmware.

The customer will purchase a Power System E980 and wants to manage all servers from the same HMCs.

How can this be accomplished, if necessary?

A. Upgrade the code on the 7042-CR4 HMCs V9R9.1.0.

B. Purchase two 7063-CR1 HMCs.

C. The current HMCs already satisfy the customer requirements.

D. MES the existing 7042-CR4 HMCs to 7042-CR9 HMCs.

Correct Answer: A

QUESTION 5

Which of the following is a RAS improvement of a Power System E980 over a Power System E880C?

A. Redundant System Clocks in each node

B. Redundant Voltage Regulators in each node

C. Redundant Service Processors in each node

D. Alternate Processor Recovery

Correct Answer: B

Reference: https://www.ibm.com/developerworks/community/blogs/5things/
entry/5_Things_to_know_about_the_IBM_Power_System_E950_server?lang=ja

QUESTION 6

Which of the following statements is true regarding LPAR Mobility?

A. An active AIX logical partition cannot be migrated from one server to another server by using the System Management Interface Tool (SMIT)

B. An inactive logical partition may be migrated from one server to another server by using the Partition Migration wizard on HMC.

C. The HMC command-line interface is required to migrate a Linux logical partition from one server to another server.

D. A suspended logical partition cannot be migrated from one server to another server.

Correct Answer: B

QUESTION 7

A customer has used Trial Capacity on Demand on their Power System E980 for two months to test the effect of activating two additional cores and 32GB of additional memory for their SAP LPAR. Being satisfied with the test result, they bought a permanent activation of two cores and 32GB memory.

They now want to do another short test that requires the activation of one additional core.

Which option provides the most cost-effective solution?

A. Use Static Activation.

B. Use Utility Capacity on Demand.

C. Use Trial Capacity on Demand again.

D. Use Mobile Activation.

Correct Answer: B

QUESTION 8

What is L4 cache?

A. Off-processor-chip buffering to provide faster main memory access in enterprise servers.

B. Allows for Active Memory Expansion of the main memory in enterprise servers

C. On-processor-chip buffering of GPU results

D. On-processor-chip buffering between L3 and POWER9 processor cores

Correct Answer: D

Reference: https://superuser.com/questions/1073937/what-does-l4-cache-hold-on-some-cpus

QUESTION 9

A customer has a two node Power System E880 with EXP24S Disk Drawers and I/O Drawers used exclusively for dual VIOS local boot.

How can a Solutions Architect design a POWER9 solution to minimize the physical rack space with an upgrade to a Power System E980?

A. Change the EXP24S to Mode 4 to allow consolidation to a single EXP24S.

B. Upgrade the I/O Drawers with SAN boot capable Fibre Channel Adapters.

C. Configure a single node Power System E980.

D. Configure NVMe Flash Drives into the Power System E980 nodes.

Correct Answer: C

QUESTION 10

Which of the following statements is true regarding Power Enterprise Pools?

A. The XML configuration file can be downloaded from the ESS (My Entitled Systems Support) web site.

B. One Enterprise pool can contain the following machine types: Power Systems E870, E870C, E880C, and E980.

C. Mobile activations can be moved within a pool at any time, without contacting IBM.

D. A minimum of 75% of a system\\'s memory activation can be mobile.

Correct Answer: C

Reference: https://www-01.ibm.com/support/docview.wss?uid=nas8N1022430

QUESTION 11

Which of the following is true for systems virtualized with PowerVM?

A. Adapters can be dedicated to LPARs.

B. LPARs require virtual adapters.

C. LPARs require shared memory.

D. Cores must be shared between LPARs.

Correct Answer: A

QUESTION 12

What is the minimum memory capacity of a Power System E980?

A. 32TB

B. 64TB

C. 128TB

D. 192TB

Correct Answer: B

QUESTION 13

How is rack space reserved for cabling space when configuring Power System E980 servers?

A. By designating 1U or 2U of space at either the top or bottom of the rack in the configuration.

B. By using the supplied cable management arms that come with the server as standard.

C. By requesting rack space during the pre-install Technical Delivery Assessment.

D. By configuring extra blank rack panels.

Correct Answer: A

QUESTION 14

An IBM Power System E980 customer is allocating six processor cores to a shared processor pool where they intend to create four partitions as defined below: An IBM i partition with 1.75 processing units and 2 virtual processors ?uncapped An IBM i partition with .60 processing units and 1 virtual processors ?uncapped An IBM i partition with .40 processing units and 1 virtual processors ?uncapped A VIOS partition with 1.25 processing units and 2 virtual processors ?uncapped

How many IBM i licenses are required to support this configuration?

A. 2.75

B. 6.0

C. 4.0

D. 2.0

Correct Answer: D

QUESTION 15

An AIX customer is purchasing two new POWER9 processor-based servers: each connected to its own DS8880 at different sites. The customer wants high availability with the least amount of downtime.

Which solution will satisfy the customer\\'s requirements?

A. Combine PowerHA with DS8880 data replication capabilities for automated failover across the sites.

B. Create dual VIOS on each POWER9 and double the total number of adapters in each machine.

C. Use the DS8880 data replication capabilities to replicate the data across the sites. Configure PowerVM Live Partition Mobility for application availability.

D. Use the DS8880 data replication capabilities to perform automated node failover across the sites.

Correct Answer: B

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