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**Exam Code: C1000-031**

**Exam Name: IBM Power Systems Scale-Up Technical Sales**

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**QUESTION 1**

Which of the following is a benefit of the POWER9 processor with Power Enterprise Servers when compared to x86?

- A. DDR4 Memory
- B. More cores per socket
- C. More threads per core
- D. NVIDIA Tesla V100

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.ibm.com/it-infrastructure/power/power9>

**QUESTION 2**

An IBM Business Partner is designing a solution with two POWER9 processor-based servers, an IBM V7000 storage, and IBM SAN switches. Which of the following will allow them to check the compatibility of software, device drivers, multipathing, and other technical specifications?

- A. IBM Facts and Features
- B. IBM System Storage Interoperation Center (SSIC)
- C. e-config
- D. Support web sites of the potential Original Equipment Manufacturers (OEM)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 3**

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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 4

Due to an emergency situation, a customer needs to activate all processor and memory resources in a Power System E980 for ten days. Which of the following could be used to achieve this need with the least possible cost?

- A. Elastic CoD
- B. Trial CoD
- C. Utility CoD
- D. Static Activation



**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www-01.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep\\_ca/6/877/ENUSZG18-0086/index.html&request\\_locale=en](https://www-01.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep_ca/6/877/ENUSZG18-0086/index.html&request_locale=en)

#### QUESTION 5

Which component of PowerSC monitors AIX systems, maintains security, and provides alerts when a change to the system violates a configuration policy?

- A. Trusted Logging
- B. Real Time Compliance
- C. Security and Compliance Automation
- D. Trusted Surveyor

**Correct Answer:** C

**Section:** (none)

### Explanation

#### Explanation/Reference:

Reference: [ftp://public.dhe.ibm.com/systems/power/community/aix/PowerVM\\_webinars/22\\_PowerSC\\_Overview.pdf](ftp://public.dhe.ibm.com/systems/power/community/aix/PowerVM_webinars/22_PowerSC_Overview.pdf)

### QUESTION 6

What is the advantage of NVMe U.2 flash drives on a Power System E980 SAP HANA BW implementation?

- A. They can provide internal boot capability for dual VIOS.
- B. They allow for Live Partition Mobility of HANA databases through CAPI 2.0.
- C. They can provide AIX Preferred Read storage to reduce SAN latency.
- D. They can act as an extension to memory for HANA databases.

**Correct Answer:** C

**Section:** (none)

### Explanation

#### Explanation/Reference:

### QUESTION 7

A customer with a Power System E880C is considering a model conversion to a Power System E980. They currently have Elastic CoD enabled. Which of the following steps will need to be completed to continue to use Elastic CoD on the Power System E980?

- A. Prepay for Elastic CoD usage when placing the upgrade MES order for the Power System E980.
- B. Reorder the Elastic CoD enablement features when placing the upgrade MES order for the Power System E980.
- C. Reorder the Utility CoD enablement features when placing the upgrade MES order for the Power System E980.
- D. Convert static activations to mobile activations when placing the upgrade MES order for the Power System E980.

**Correct Answer:** A

**Section:** (none)

### Explanation

#### Explanation/Reference:

Reference: <https://www-01.ibm.com/common/ssi/cgi-bin/ssialias?htmlfid=899/ENUSLG18-0083&infotype=AN&subtype=CA>

### QUESTION 8

A customer requires that each client partition have access to two different VLANs. VLAN tagging will NOT be used in the environment. There will be four client partitions, each of which will be connected to VLAN1 and VLAN2.

There will be two VIOS.

Redundant Ethernet connections will be accomplished using the Shared Ethernet Adapter (SEA) and dual VIOS.

What is the minimum number of Ethernet ports that will be required in each VIOS?

- A. 8
- B. 4
- C. 6
- D. 2

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.ibm.com/developerworks/aix/tutorials/au-sea-config/index.html>

#### QUESTION 9

A customer has four AIX VMs, each running a different application that needs simultaneous read/write access to the same files.

Which of the following products should be recommended?

- A. Power HA Enterprise Edition
- B. Spectrum Scale
- C. Spectrum Protect
- D. Power HA Standard Edition

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

A customer with an AIX in-house SMT2 application on POWER6 would like to upgrade to POWER9. The customer would like to know the relative performance of the servers.

Which resource provides the SMT2 performance of the two systems?

- A. IBM Performance Management for Power Systems

- B. IBM Power Systems Performance Report
- C. IBM Power Systems Facts and Features
- D. IBM Systems Workload Estimator

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 11**

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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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

#### **QUESTION 12**

While migrating from a Power System E880 to a Power System E980, which of the following is automatically provided on both systems?

- A. PowerVM Standard Edition
- B. IBM Cloud PowerVC Manager
- C. PowerVM Enterprise Edition
- D. IBM Cloud Private

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 13**

Which of the following is an advantage of Power System Servers over Oracle Exadata solutions?

- A. Support for Flash Drives
- B. Ability to add cores and memory
- C. Can run Oracle 12C natively
- D. Offers a greater quantity of cores for enhanced scaling

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <https://www.slideshare.net/miguelnoronha/why-oracle-on-ibm-power7-is-better-than-oracle-exadata-the-advantages-of-ibm-power7-systems> (slide 10)

**QUESTION 14**

Which IBM Power Systems Software provides network firewall services with the local virtualized server to control network traffic between LPARs?

- A. PowerSC
- B. Trusted AIX
- C. PowerVC
- D. Trusted Surveyor

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [http://www.common.be/system/files/files/Power\\_Systems\\_2013\\_PC.pdf](http://www.common.be/system/files/files/Power_Systems_2013_PC.pdf) (20)

**QUESTION 15**

A customer has several workloads using LPARs. The customer desires that the maximum number of active cores be made available for each workload, a shared SAN connection, and dedicated LAN throughput for each workload.

Which of the following satisfies the workload requirements?

- A. Dedicated donating cores, NPIV, SR-IOV network
- B. Shared Processor Pool, vSCSI, VIOS SEA
- C. Shared Processor Pool, Dedicated HBAs, dedicated LAN adapters
- D. Shared Processor Pool, NPIV, dedicated LAN adapters

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 16

A customer is considering a purchase of a Power System E950. One PCIe Gen3 I/O expansion drawer is required to meet the I/O adapter requirements. How many racks units (EIA) are required?

- A. 8
- B. 9
- C. 6
- D. 10



**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www.redbooks.ibm.com/redpapers/pdfs/redp5509.pdf>

#### QUESTION 17

A customer is comparing a Power Systems solution with an x86 solution for big data analytics.

Which no-charge IBM analysis is available to justify the value of IBM Power Servers compared to x86 solutions?

- A. IT Economics Study (Eagle Study)
- B. Performance Navigator
- C. System Planning Tool
- D. Workload Estimator

**Correct Answer:** D



**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

The IBM Systems Workload Estimator is a web-based sizing tool for IBM Power Systems, System i, System p, System x, IBM Flex Systems, and IBM PureFlex Systems. You can use this tool to size a new system, to size an upgrade to an existing system, or to size a consolidation of several systems. The Workload Estimator (WLE) allows measurement input to best reflect your current workload and provides a variety of built-in workloads to reflect your emerging application requirements. Virtualization can be used to yield a more robust solution. The Workload Estimator will provide current and growth recommendations for processor, memory, and disk that satisfy the overall client performance requirements

Reference: [https://www.ibm.com/developerworks/community/blogs/systemssupport/entry/ibm\\_systems\\_workload\\_estimator\\_and\\_energy\\_estimator2?lang=en](https://www.ibm.com/developerworks/community/blogs/systemssupport/entry/ibm_systems_workload_estimator_and_energy_estimator2?lang=en)

#### **QUESTION 18**

A customer would like to deploy a new application that requires 7 day by 24 hour availability.

What advantage does the Power System E980 have versus the Power System S924 to satisfy their requirement?

- A. PCIe hot plug adapters
- B. Soft error protection, recovery and self-healing
- C. Active Memory Mirroring
- D. Chipkill memory



**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [https://www-01.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep\\_ca/6/877/ENUSZG18-0086/index.html&request\\_locale=en](https://www-01.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep_ca/6/877/ENUSZG18-0086/index.html&request_locale=en)

#### **QUESTION 19**

Which of the following statements is true regarding Dynamic Logical Partitioning (DLPAR)?

- A. In a disaster, it will immediately move active LPARs from a local system to a remote system, over the network with only a pause in service.
- B. In a disaster, it will immediately move active LPARs from a local system to another local system, using a common SAN, with only a pause in service.
- C. It enables the relocation of resources such as CPU and memory between LPARs as required, without an interruption in service.
- D. It will automatically allocate an unlicensed processor to an LPAR to replace one that has reached the threshold for errors.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <http://ibmsystemsmag.com/aix/administrator/lpar/dynamic-lpar---the-way-to-the-future/?page=2>

**QUESTION 20**

A customer would like to add a second HMC to an environment which consists of multiple POWER8 and POWER9 processor-based systems. Which of the following is a requirement for both HMCs to be able to manage all the systems?

- A. Both HMCs must be at the same version of HMC Code.
- B. Both HMCs must be on the same HMC VLAN.
- C. All the POWER8 processor-based systems must be at the same firmware level.
- D. Each HMC must be on a dedicated HMC VLAN.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

A switch can be partitioned to create a VLAN dedicated to HMC to managed server communication. If HMCs are configured as DHCP servers, there must be only one HMC on each VLAN! If dual HMCs are attached for redundancy, it is unwise to connect the HMCs to two VLANs in the same switch, because if the switch fails both HMCs lose connectivity, thereby defeating the HMC redundancy

Reference: <https://www.ibm.com/developerworks/community/wikis/home/wiki/Power%20Systems/page/HMC%20reliable%20communication%20and%20doing%20without>

**QUESTION 21**

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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

A customer has ordered a Power System E980. The system has been built, but cannot be shipped. What would prevent the system from being shipped?

- A. The mandatory pre-install TDA has not been completed.
- B. The IBM System Support representative has not completed the pre-install site visit.
- C. The opportunity owner has not released it.
- D. A pre-sale TDA discovered correctable issues that have not been corrected.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

A customer has a 40 core Power System E980 and would like to use Mobile Capacity on Demand. What is the minimum of static processor activations that are required?

- A. 10
- B. 12
- C. 20
- D. 8

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www-01.ibm.com/common/ssi/cgi-bin/ssialias?htmlfid=899/ENUSLG18-0083&infotype=AN&subtype=CA>

**QUESTION 24**

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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 25

Which Ethernet virtualization technique supports Live Partition Mobility on POWER9?

- A. vSwitch
- B. Standalone SR-IOV without VIOS
- C. Proxy ARP
- D. SEA

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 26

Which capability is used to reallocate memory from one LPAR to another?

- A. Live Partition Mobility
- B. Active Memory Expansion
- C. Dynamic Logical Partitioning
- D. Active Memory Sharing

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

A customer with a Power System 770 and direct SAN I/O is planning a migration to a Power System E980. The Power System 770 has four 8Gb PCIe 2-port full-height Fibre Channel adapters with all storage going through the SAN. The customer wants to keep the same WWPNS, and avoid a SAN reconfiguration. What procedure should be recommended?

- A. Order new HBAs, but keep using the existing, already configured SAN switches.
- B. Order a PCIe Gen3 I/O Expansion Drawer and relocate the HBAs into the drawer.
- C. Order new HBAs and modify the WWPNS in the ASMI.
- D. Move the HBAs from the Power 770 and install them into the Power System E980 system node.

**Correct Answer:** D

**Section:** (none)

**Explanation**



**Explanation/Reference:**

**QUESTION 28**

Amongst which architectures can virtual machines be moved with Live Partition Mobility (LPM)?

- A. POWER9, POWER8, POWER7, POWER7+
- B. POWER9, POWER8, POWER7, POWER6
- C. POWER9, POWER8, POWER7, POWER6+
- D. POWER9, POWER8, POWER7+, POWER6+

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Section: (none)

Explanation

**QUESTION 29**

A customer wants to virtualize their storage environment and would like to use NPIV.  
Where will the storage multipathing software run?

- A. VIOS
- B. Storage controller
- C. Power Hypervisor
- D. Client LPAR

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://books.google.com.pk/books?id=K7HEAgAAQBAJ&pg=PA214&lpg=PA214&dq=IBM+power+systems+virtualize+their+storage+environment+and+would+like+to+use+NPIV.+Where+will+the+storage+multipathing+software&source=bl&ots=UIZU925rUu&sig=7A6MSfq1wi89pP5iojQ6BoE67hk&hl=en&sa=X&ved=2ahUKEwi33u3su\\_beAhUS1xoKHZR4DzAQ6AEwA3oECAUQAQ#v=onepage&q=IBM%20power%20systems%20virtualize%20their%20storage%20environment%20and%20would%20like%20to%20use%20NPIV.%20Where%20will%20the%20storage%20multipathing%20software&f=false](https://books.google.com.pk/books?id=K7HEAgAAQBAJ&pg=PA214&lpg=PA214&dq=IBM+power+systems+virtualize+their+storage+environment+and+would+like+to+use+NPIV.+Where+will+the+storage+multipathing+software&source=bl&ots=UIZU925rUu&sig=7A6MSfq1wi89pP5iojQ6BoE67hk&hl=en&sa=X&ved=2ahUKEwi33u3su_beAhUS1xoKHZR4DzAQ6AEwA3oECAUQAQ#v=onepage&q=IBM%20power%20systems%20virtualize%20their%20storage%20environment%20and%20would%20like%20to%20use%20NPIV.%20Where%20will%20the%20storage%20multipathing%20software&f=false)

**QUESTION 30**

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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 31**

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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 32**

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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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

**QUESTION 33**

What is an advantage of running Linux on Power compared to x86 technology?

- A. Extended Error Handling
- B. Docker containers

- C. Chipkill memory
- D. Partition mobility

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.ibm.com/developerworks/library/l-linux-on-power/index.html>

#### QUESTION 34

Which of the following is a benefit of Power Enterprise Pools?

- A. Has no restrictions on where or how long cores and memory can be relocated.
- B. Provides automatic load balancing based on built in policies enabled in PowerVM.
- C. Can use a Scale-out system temporarily in certain conditions.
- D. Provides flexibility to manage both core and memory resources across multiple servers.

**Correct Answer:** D

**Section:** (none)

**Explanation**



**Explanation/Reference:**

Reference: [https://www.ibm.com/support/knowledgecenter/TI0003N/p8ha2/systempool\\_cod.htm](https://www.ibm.com/support/knowledgecenter/TI0003N/p8ha2/systempool_cod.htm)

#### QUESTION 35

An installation engineer has configured a new POWER9 processor-based server with two VIOS partitions. The client is questioning the use of resources for two VIOS partitions instead of one.

What benefit does the dual VIOS configuration provide?

- A. Provides for better system performance and balance between client partitions.
- B. Allows for upgrading the OS on partitions without application downtime.
- C. Provides better Reliability, Availability and Serviceability (RAS).
- D. Allows for dedicated I/O adapters.

**Correct Answer:** A

**Section:** (none)

**Explanation**



**Explanation/Reference:**

Section: (none)

Explanation

Reference: <https://www.ibm.com/developerworks/community/wikis/home?lang=ja#!/wiki/Power%20Systems/page/Virtual%20Storage%20Redundancy%20with%20dual%20VIOs%20Configuration>

**QUESTION 36**

A customer needs to run a Linux database application that is supported on both x86 and Power System processors. What is the advantage of selecting a POWER9 processor-based system for this application?

- A. The ability to move live workloads without downtime.
- B. More applications are compiled for Power Systems than for x86.
- C. Better memory bandwidth on POWER9 processor-based systems.
- D. More cores per socket on POWER9 processor-based systems.

**Correct Answer: D**

**Section: (none)**

**Explanation**



**Explanation/Reference:**

**QUESTION 37**

An existing POWER8 client is requesting redundant hardware, service, and basic virtualization management for their new POWER9 Enterprise server. Their Systems Architect has included one 7063-CR1. Which of the following provides redundancy?

- A. An existing 7042-CR8 with firmware at V8.
- B. An Integrated Virtualization Manager (IVM).
- C. An existing 7042-CR6 with firmware upgraded to V9.
- D. An HMC Virtual Appliance

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <http://shopdominustech.com/blog/wp-content/uploads/2018/10/redp5496.pdf>

**QUESTION 38**

What is the most cost-effective Capacity on Demand (CoD) offering that will allow a new customer to analyze the effects of activating two cores on a Power System E980 and 32GB of memory for one month?

- A. Enable Mobile Activations
- B. Trial
- C. Elastic
- D. Utility

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 39**

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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.ibm.com/developerworks/community/blogs/5things/entry/5\\_Things\\_to\\_know\\_about\\_the\\_IBM\\_Power\\_System\\_E950\\_server?lang=ja](https://www.ibm.com/developerworks/community/blogs/5things/entry/5_Things_to_know_about_the_IBM_Power_System_E950_server?lang=ja)

**QUESTION 40**

A customer wants to provide storage to 16 partitions on a new Power System E980. Each partition requires at least 10 individual LUNs. The customer has strong SAN administration skills but only moderate VIOS skills.

Which technology satisfies the storage and skills requirements?

- A. NPIV
- B. MPIO
- C. vSCSI
- D. SVC

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.ibm.com/support/knowledgecenter/POWER6/iphathat/iphathat.pdf>

#### QUESTION 41

Which HMC alternative will support a migration from a Power System E880 to a Power System E980?

- A. 7042-CR9 with firmware V8
- B. 7042-CR7 with firmware V8
- C. 7042-CR8 with firmware V8
- D. 7042-CR6 with firmware V8



**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 42

A customer is evaluating application software from a third party with versions that can run on both Linux and IBM i. The application requires Db2. What benefit should be considered when comparing the TCA of IBM i versus Linux?

- A. Db2 is included in the IBM i OS with no additional cost.
- B. IBM i licenses come with three year base warranty coverage.
- C. Linux licenses are more expensive per core than IBM i.
- D. Db2 on IBM i has individual warranty and maintenance charges.

**Correct Answer:** A

**Section:** (none)