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Exam Name: Architecting HPE Server Solutions

Certification Provider: HP

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QUESTION 1

An architect has designed an HPE BladeSystem with Flex-1 OD Virtual Connect that connects to HPE 5830 switches. The architect needs to ensure that the solution simplifies the customer's campus Ethernet.

Which additional HPE technology should the architect recommend to the customer?

- A. Intelligent Resilient Framework (IRF)
- B. Shortest Path Bridge Mac in Mac (SPBM)
- C. Fiber Channel over Ethernet (FCoE)
- D. RDMA over Converged Ethernet (RoCE)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.hpe.com/uk/en/integrated-systems/virtual-connect.html>

QUESTION 2

A customer needs to deploy SAP HANA. The customer needs a scale-out solution to accommodate an increase in workload over the next two years.

Which ProLiant series should the architect recommend to the customer?

- A. HPE ProLiant 300
- B. HPE ProLiant 100
- C. HPE ProLiant BladeSystem
- D. HPE ProLiant 500

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

Which tool should an architect use to research the technical specifications of various Smart Array controllers?

- A. HPE Product Bulletin
- B. SalesBuilder for Windows

- C. ProposalWeb
- D. HPE iQuote

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.hpe.com/h20195/v2/GetDocument.aspx?docname=c04111558>

QUESTION 4

A customer needs to improve the performance of a CPU intensive application running on an HPE ProLiant DL 360 Gen9 server with an Intel Xeon E5 processors. The architect proposes to add an Intel Phi coprocessor extensions to the server. What should an architect verify to ensure the coprocessor will improve application performance?

- A. that the application is able to work in a clustered environment
- B. that the application is highly parallel, and can scale to more than one hundred threads
- C. that the server is connected with a 40Gb/s network interface card
- D. that the server has a minimum of 24 GB ECC-capable RAM installed

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

How does the HPE BladeSystem architecture meet the changing needs of data center customers?

- A. introduction of Active Health System monitor
- B. system management using HPE Virtual Connect modules
- C. enables customers to shift investment from maintenance to innovation
- D. consolidate deployment of firmware via HPE Agentless Management

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:**QUESTION 6**

A customer has a ProLiant DL based server solution. The customer is experiencing high write latency with its virtual desktop infrastructure running on this solution. Which solution will increase the application performance and reduce the use of resources?

- A. Upgrade the current processor to the E5-4800 v5 processor
- B. Add a PCIe Workload Accelerator
- C. Migrate to PCIe Solid State Drives
- D. Upgrade memory to 2133 MHz DDR4

Correct Answer: B**Section: (none)****Explanation****Explanation/Reference:**

The 10 Accelerator is an advanced storage device that uses solid state storage technology directly on the PCI bus, assuring high read and write data rates and accelerated application performance. The associated application performance improvements will have a positive impact on business results and the ability to make decisions quickly, resulting in significant cost and time savings.

Reference: <https://www.hpe.com/h20195/v2/getpdf.aspx/c04111683.pdf?ver=7>

QUESTION 7

A customer has acquired another company with a large install base of HPE BladeSystem servers with Virtual Connect managed by HPE OneView. The customer needs the ability to easily record its new assets in its configuration management database (CMDB).

Which approach should the architect recommend to the customer?

- A. Use VCEM to create a customized report to find all blade servers, and use the results for import into the CMDB.
- B. Back up the HPE OneView appliance database, and use the bulk copy capability of the CMDB to insert the records.
- C. Use the REST API to retrieve a list of server resources and their properties from the HPE OneView appliance for import into the CMDB.
- D. Use iLO Federation groups, and select the multi-system view to gather the hardware types and serial numbers of each server in the group for import into the CMDB.

Correct Answer: C**Section: (none)****Explanation****Explanation/Reference:**

QUESTION 8

What is a frame requirement for the HPE Synergy Image Streamer?

- A. redundant Master modules in each frame
- B. a minimum of three Synergy frames
- C. fully populated Synergy compute modules in each frame
- D. a single Composer in each Synergy frame

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

HPE Synergy Image Streamer requires a minimum of three (3) Synergy Frames with redundant Synergy Composers for operation and must be implemented as redundant pairs. This minimal system requires four (4) cables, two (2) transceiver sand one (1) Interconnect Module listed below for complete operation.

Reference:<https://www.hpe.com/h20195/v2/getpdf.aspx/c04815217.pdf?ver=1>

QUESTION 9

Which server technology will enable increased throughput, lower latency, and lower CPU utilization across the servers?

- A. InfiniBand
- B. virtual extensible LAN (VXLAN)
- C. TCP/IP Offload Engine
- D. RDMA

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference:[https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA5-4774ENW.pdf\(page 3\)](https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA5-4774ENW.pdf(page 3))

QUESTION 10

A customer needs to manage contract, warranty, and HPE Care Pack Information for its server and storage infrastructure from a single location. The customer also needs proactive expiration notifications for these contracts.

Which HPE tool should the architect recommend?

- A. HPE Insight Online
- B. HPE System Management Homepage

- C. HPE Insight Display
- D. HPE Smart Update Manager

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855enw.pdf>

QUESTION 11

What is a feature of the Apollo 4200 series Gen9 Server?

- A. support for 50 SFF SAS Disk Drives
- B. optimization for nonstandard racks
- C. 3U height
- D. support for maximum 6G transfer rate

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 12

A customer plans to transition from rack mount servers to blade servers. The customer has selected Virtual Connect as the network interconnect module for the c7000, allowing it to take advantage of network virtualization. The customer needs an on-premise management strategy that can take advantage of the RESTful API for integration into its Chef development operations model.

Which protocol should the architect recommend to support and manage the proposed HPE BladeSystem solution?

- A. HPE Systems Insight Manager
- B. HPE OneView
- C. HPE Virtual Connect Enterprise Manager
- D. HPE Virtual Connect Manager

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:**QUESTION 13**

A customer has a VMware vSphere environment with a mix of ProLiant DL G5 servers, ProLiant DL G5 servers, and ProLiant BL Gen9 server blades. The customer plans to replace HPE Insight Control with HPE OneView as a monitoring platform. What should the architect explain to the customer?

- A. that HPE OneView does not support G5 and older servers
- B. that HPE Insight Control can be directly updated to the HPE OneView
- C. that HPE Insight Control does not support Gen9 servers
- D. that HPE OneView licenses must be purchased in 50 node bundles

Correct Answer: B**Section: (none)****Explanation****Explanation/Reference:****QUESTION 14**

Which standards can be implemented in a data center to help reduce carbon foot print?

- A. ASHRAE L3
- B. OSHA 3075
- C. ISO 9001
- D. IEEE 802.11

Correct Answer: A**Section: (none)****Explanation****Explanation/Reference:****QUESTION 15**

A customer needs to maximize density capability while reducing cooling requirements in its data center. Which HPE solution will meet the customer's needs and extend the life of its data center?

- A. HPE Modular Cooling System

- B. HPE Active Cool Fans
- C. HPE Intelligent Power Discovery
- D. HPE Datacenter Smart Grid

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

HP modular cooling system is a closed-loop cooling system mounted on an HP 10000 Series G2 Rack. The MCS makes it possible to achieve hardware densities and power consumption levels (up to 35 kW in a single rack) that have been difficult—if not impossible—to support with conventional HVAC systems. In particular, the MCS allows data centers to resolve specific hot spot occurrences without revamping the overall infrastructure or introducing additional heat into the data center. Reference: <http://h20564.www2.hp.com/hpsc/doc/public/display?docId=c00064724>

QUESTION 16

A customer plans to use Apollo 6000 chassis for scalability and efficiency. The customer will deploy an application cluster that requires two I/O accelerator cards per server for optimum performance.

Which server should the architect recommend to the customer?

- A. XL250a Gen9 server tray
- B. XL230a Gen9 server tray
- C. XL220a Gen8 v2 server tray
- D. DL380 Gen9



Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

The XL250a Gen9 tray supports two I/O accelerator cards per server for top notch performance. It is the best in the industry and the best configuration available for Apollo 6000 chassis.

Reference: <https://www.hp.com/h20195/v2/getpdf.aspx/c04293373.pdf?ver=9>

QUESTION 17

An architect is using HPE Power Advisor to assist in architecting an HPE BladeSystem solution that contains HPE Flexfabric interconnect modules.

Which information about the solution can the tool provide? (Select two.)

- A. estimated power usage of the system
- B. bill of materials for the system
- C. mismatch between interconnect modules and network adapters

- D. UPS sizing based on defined run times
- E. SFP+ module power requirements

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

The HPE Power Advisor is a tool provided by Hewlett Packard Enterprise to assist in the estimation of power consumption at power up of a system and proper selection of components including power supplies at a system, rack, and multi-rack level. A variety of additional features are also provided including a condensed bill of materials, a cost of ownership calculator, and a power report. The HPE Power Advisor allows for the mixing of rack, tower, blade, and other products in a single environment.

Reference: <https://www.hpe.com/h20195/v2/GetPDF.aspx/c04128339.pdf>

QUESTION 18

An architect needs to explain to a customer how power is monitored and managed in an Apollo 6000 solution. Which HPE component should the architect describe to the customer?

- A. HPE OverView
- B. HPE Advanced Power Manager
- C. HPE Cluster Management Utility
- D. HPE External Power Shelf



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation;

HP Advanced Power Manager dynamically monitors and manages power to save on energy Reference:http://www.hp.com/hpinfo/newsroom/press_kits/2014/HPDiscover2014/Apollo6000datasheet.pdf

QUESTION 19

Which functionality provides centralized health monitoring for HPE ProLiant servers?

- A. iLO Federation
- B. intelligent Provisioning
- C. HPE Insight Control server provisioning
- D. HPE System Management Homepage

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Reference: <https://www.hpe.com/us/en/pdfViewer.html?resource=/content/hpe/country/us/en/resources/software/technical-white-paper/hpe-insight-control-server-prov-tech>

QUESTION 20

A customer has exceeded the current capability of its Hadoop application running on DL380e Gen8 servers. Which HPE Gen9 replacement server model will run a new Hadoop application and provide dense storage capabilities?

- A. HPE symmetric hadoop
- B. HPE WDO
- C. HPE Alternate Compute
- D. HPE Apollo 4200 storage

Correct Answer: B
Section: (none)
Explanation



Explanation/Reference:

When compared to our traditional solution using a rack of eighteen HPE ProLiant DL380 Gen9 systems, the balanced configuration of the HPE WDO system (i.e., nine HPE Apollo 2000 chassis and nine HPE Apollo 4200 Gen9 servers) offers 2.0x the compute density, 1,16x the storage density, and 1.33x the memory density within a single rack. These benefits extend to the hot and cold configurations due to the flexibility to scale compute or storage independently based on data access. Reference: <https://www.hpe.com/h20195/V2/getpdf.aspx/4AA5-6136ENW.pdf?ver=6.0>

QUESTION 21

A customer plans to implement an in-memory analytics application on HPE ProLiant servers. Which processor family should the architect recommend to the customer?

- A. Intel Xeon MP family
- B. Intel Xeon E7 family
- C. Intel Xeon E3 family
- D. Intel Xeon E5 family

Correct Answer: B
Section: (none)
Explanation