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Exam Name: Architecting Advanced HPE Server Solutions

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QUESTION 1

A customer has a Hadoop big data and analytics solution. The customer needs a server upgrade to improve performance for this solution and plans to add more solutions that draw on the data, such as a Cassandra NoSQL database. The customer is interested in a flexible HPE Big Data Reference Architecture approach. Which solution meets the customer's needs?

- A. HPE Moonshot 1500 Systems with m700 cartridges for co-located compute and storage nodes
- B. HPE Apollo 4530 Systems for co-located compute and storage nodes
- C. HPE Apollo 8000 Systems for the compute nodes and HPE Superdome X Systems for the storage nodes
- D. HPE Moonshot 1500 Systems with m710 cartridges for the compute nodes and HPE Apollo 4200 Systems for the storage nodes

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

A customer recently purchased an HPE Moonshot chassis to host its internal website. Subsequently, the customer reports difficulties deploying new cartridges in an efficient manner. The customer suggests exchanging the solution for a more traditional server platform. What can the architect demonstrate to the customer to help solve the problem while preserving the validity of the original design solution?

- A. how to use SCCM to provide a graphical installation method for new nodes
- B. how to use VSP to provide a graphical installation method for new nodes
- C. how to add an mRCA module to provide a graphical installation method for new nodes
- D. how to use iLO remote console to provide a graphical installation method for new nodes

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation

In order to interface with the specific server cartridge node, the mRCA must be installed in a specific slot within the chassis, relative to the linking server cartridge.

Reference https://h20565.www2.hp.com/hpsc/doc/public/display?sp4ts.oid=5365577&docId=en_US&docId=emr_na-c04785597

QUESTION 3

A customer is planning a multi-threaded HPC solution that would benefit from threads running in parallel.

The architect selects the HPE Apollo 6000 and needs to choose between the HPE XL230a and the XL250a compute tray
What is one reason for choosing the XL250a tray?

- A. The HPE XL250a server supports DDR4 HPE Smart Memory.
- B. The HPE XL250a server supports dual accelerators.
- C. The HPE XL250a server provides full length PCIe expansion slots.
- D. The HPE XL250a server delivers dual processor performance.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

The HPE ProLiant XL250a Gen9 Server delivers 2P performance for your budget with dual accelerator support, while leveraging the HPE Apollo 6000 System and its modular flexibility and rack-scale efficiency. This server features the Intel® Xeon® E5-2600 v3/v4 series processors and 16 DIMM slots are ready with DDR4 2133 (1024 GB maximum)/2400 (2048 GB maximum) MHz memory and HPE SmartMemory.

Reference <https://www.hpe.com/nz/en/product-catalog/servers/proliant-servers/pip.hpe-proliant-xl250a-aen9-server.7307070.html>

QUESTION 4

An architect takes the following notes during a meeting with a customer:

- plans to introduce an entirely new service offering to customers
- servers will be virtualized and will consume large amounts of storage space
- project is to operate in an isolated section of the data center with limited access to the corporate network
- need flexibility to grow quickly as required by the new service demands on the infrastructure
- has no repeatable process for firmware management
- concerned about how long it will take for the project team to become productive on the new infrastructure

Which solution should the architect propose to help the customer overcome all of its project challenges?

- A. HPE BladeSystem solution with HPE 3PAR storage
- B. HPE Apollo 6000 solution with HPE 3PAR storage
- C. HPE ConvergedSystem 700 solution with HPE 3PAR storage
- D. HPE Apollo 2000 solution with HPE 3PAR storage

Correct Answer: B

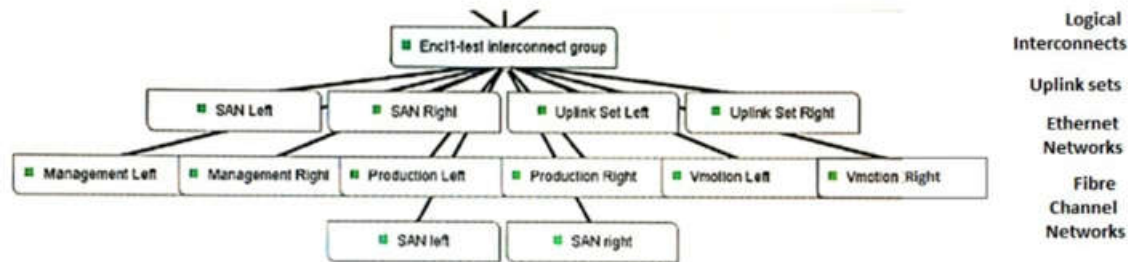
Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

View the Exhibit



Refer to the exhibit. A customer has an HPE c7000 enclosure managed by HPE OneView with HP BL460c Gen9 servers in a vSphere cluster. The customer has multiple vLANs trunked from the top of rack (TOR) switches to the Virtual Connect modules in the enclosure. Due to network Access Control List (ACL) requirement and guidelines from the networking department, all network traffic should be forced to an upstream switch using the Virtual Connect "Private Network" feature.

The customer reports slow network response.

Which modification can the architect recommend to improve network performance?

- A. Change the FlexFabric 20/40 adapter modules with Flex 10/100 modules.
- B. Change the FlexFabric adapter modules with Flex-10 adapter modules.
- C. Remove the Management network from the uplinks.
- D. Put the vMotion network in a separate uplink set and disable "Private Network".

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

A customer plans to develop scripts that use the REST API for HPE OneView. However, the customer is concerned about the complexity of the scripts. Which tool can be used to adopt the HPE OneView REST API quicker?

- A. HPE SmartStart Scripting Toolkit
- B. HPE Operations Analytics for HPE OneView
- C. HPE Python library for HPE OneView

D. HPE iLO4 using RedFish

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

An architect proposes an HPE Moonshot 1500 chassis with m710p cartridges, an HPE Moonshot 45XGc Switch, and an HPE 4 QSFP+Uplink Module. The customer informs the architect that each cartridge requires a redundant 10GbE link. How should the architect change the proposal?

- A. Add another FlexibleLOM adapter for each cartridge.
- B. Change the HPE Moonshot 45XGc Switch to an HPE Moonshot 180G switch.
- C. Add another HPE Moonshot 45XGc Switch and 4-QSFP+Uplink Module.
- D. Change the 4-QSFP+Uplink Module to a 16-SFP+ Uplink Module.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

An architect is designing an HPE Apollo 6000 solution to support an HPC application that is highly parallel and involves a lot of communication between compute nodes. The architect is choosing the FlexibleLOM options for the compute trays. Which technology should the architect ensure that the trays support?

- A. VXLAN offloading
- B. Fibre Channel over Ethernet (FCoE)
- C. RDMA over Converged Ethernet (RoCE)
- D. iSCSI hardware imitator

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:**QUESTION 9**

A customer needs a server infrastructure update for its Hadoop HBase solution. The HBase maximum dataset size will be 120TB.

To host HBase, the architect is planning three HPE Moonshot 1500 chassis that are fully populated with cartridges. The populated chassis provide the following in total:

- 135 processors with 4 2.9GHz cores each
- 4. 32TB RAM
- 64.8TB local storage on SSDs

Which aspect of the design is under provisioned and is likely to cause performance to be degraded to one-tenth or even one-hundredth of its potential?

- A. number of cores per processor
- B. number of processors
- C. amount of local storage on SSDs
- D. amount of RAM

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

**QUESTION 10**

An architect is planning an HPE Moonshot System solution to support a data analytics application. The application uses data mining.

Which type of rack configuration should the architect recommend?

- A. a configuration that balances the ratio of HPE Moonshot Systems to HPE Apollo 4200 servers, which store the data
- B. a configuration that has a higher ratio of HPE Moonshot Systems to HPE Apollo 4200 servers, which store the data
- C. a configuration that has a lower ratio of HPE Moonshot Systems to HPE Apollo 4200 servers, which store the data
- D. a configuration in which the HPE Moonshot System hosts the analytics application and the data

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

Which statement describes the availability metrics for an HPE system's high availability?

- A. All standard HPE servers are designed for 99.9999% availability.
- B. A system consisting of HPE standard servers with an availability of 99.9999% and a storage with an availability of 99.99% will have a combined availability of 99.99999%.
- C. A system with an availability of 99.99% can be expected to be inoperational for 6 minutes or fewer per year.
- D. A system with an availability of 99,999% will statistically not have an unscheduled downtime of more than 1 hour total in 10 years of operation.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

A customer operates a data center based on third-party servers, which includes third-party storage with an iSCSI SAN. The architect needs to design a solution that can seamlessly access the current data from a new HPE Moonshot system. How can the HPE Moonshot system access the legacy storage?

- A. using native iSCSI target software to connect to the storage on a dedicated LAN
- B. using native iSCSI initiator to connect to the storage on a dedicated LAN
- C. using native iSCSI initiator to connect to the storage on the management LAN
- D. using an HPE Multifunction router to convert iSCSI to Virtual Connect

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

An architect is planning an HPE Moonshot System deployment. The architect plans to individually connect each iLO CM module to the management network. The customer informs the architect that this plan requires too many 1 GbE ports per rack for the data center infrastructure. What is one way that the architect can alter the plan to meet the customer's needs, while still allowing iLO access to the HPE Moonshot Systems?

- A. Configure iLO traffic to share the same adapters as production traffic. Configure VLANs on the HPE Moonshot switch modules to separate the two types of traffic.

- B. Keep one iLO CM Management port connected to the network. Use the iLO CM link ports on each iLO CM module to daisy chain the chassis together.
- C. Enable the iLO REST API on each cartridge node. The nodes will then accept iLO commands on the adapters that they use for production traffic.
- D. Add a second switch module and uplink module to each chassis to connect to the cartridge iLO ports. Stack the modules in different chassis and connect just one to the management network.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

A customer plans to use Insight Control server provisioning and HPE OneView for vCenter Server. The vCenter Server manages one c7000 enclosure with 16 server blades running VMware ESXI.

Which licensing option should the architect include in the proposal?

- A. one HPE OneView Standard license for each managed server and one HPE OneView for vCenter Server license for the c7000 enclosure
- B. one Insight Control server provisioning license for each managed server
- C. one Insight Control server provisioning license for each managed server blade and one HPE OneView for vCenter Server license for the entire c7000 enclosure
- D. one HPE OneView Advanced license for each managed server

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

A customer requests a proposal for an HPE Apollo 4530 system. The customer reports that It has experienced problems in the past with boot time malware attacks within its environment.

Which solution should the architect propose to protect the customer from this threat?

- A. Use encrypted drives.
- B. Use Smart Array Controllers.
- C. Enable Legacy BIOS mode.
- D. Enable UEFI secure boot mode.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference http://docs.software.hp.com/SA/10.51/Content/admin_guide/SA_10.1x_OS_Installation_SecureBootCapableServers.htm

QUESTION 16

An architect is choosing between 1 GbE and 10GbE connectivity for an object storage solution. What is a valid reason to select 10GbE?

- A. The customer's network infrastructure is based on QoS service.
- B. The customer needs the system to recover quickly from a failure.
- C. The customer needs the object storage servers to be able to locate random data on a disk more quickly.
- D. The customer plans to increase the memory in the nodes in the future.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



QUESTION 17

An architect is designing an HPE Apollo 6000 solution to support a customer application. The architect is choosing between the HPE ProLiant XL230a and the XL250a compute tray. What is one reason for choosing the XL250a tray?

- A. The application is single-threaded.
- B. The application requires high storage capacity.
- C. The application uses high amounts of memory.
- D. The application requires GPU acceleration.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

A customer is deploying HPE Apollo Systems, which the customer hopes will help the organization achieve its goals for efficient energy operations. In assessing the customer maturity, the architect finds that IT staff has limited insight into how efficiently servers are operating and limited ability to enforce energy efficiency policies. Which solution should the architect recommend to help solve these issues?

- A. HPE Advanced Power Manager
- B. HPE OneView 2.x
- C. HPE Power Advisor
- D. HPE Insight Remote Support

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference <https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA5-3291 ENN.pdf>

QUESTION 19

An architect is proposing an HPE Moonshot System, including m710 cartridges, an iLO Chassis Manager, switch, and uplink modules. The customer needs IT staff to be able to access cartridges over a Remote console. What should the architect explain to the customer?

- A. IT staff can open a Remote Console to any cartridges linked to an mRCA through the iLO CM.
- B. Remote console access is only supported when a cartridge is part of an HPE Helion CloudSystem solution.
- C. Remote console access is not supported for cartridges; IT staff should use local consoles instead.
- D. IT staff can open a Remote Console to any cartridge through the iLO CM.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference https://h20565.www2.hpe.com/hpsc/doc/public/display?sp4ts.oid=5365577&docLocale=en_US&docId=emr_na-c04785597

QUESTION 20

A customer's Gen9 web server resides behind a firewall. What is the most secure and efficient method to monitor this server?

- A. Use Intelligent Provisioning.

- B. Use Agentless Management.
- C. Create Firewall rules and install System Management Homepage in Protected Mode.
- D. Create Firewall rules and install WBEM.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

A customer has a large Oracle-based ERP solution that runs on HP-UX and multiple rx2800 i2 servers. The customer plans to move to an open source solution to reduce operating expenses. The customer needs the ability to deliver incremental capacity and needs to avoid incremental Oracle licensing costs. Which HPE Server solution will help meet the customer's needs?

- A. HPE Apollo 6000 System
- B. HPE Superdome X
- C. HPE BladeSystem c7000 with BL460G Gen9 Servers
- D. HPE Apollo 4500 System



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference <https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA6-5294ENN.pdf> (page 5)

QUESTION 22

An architect finds several vulnerabilities with a customer's digital enterprise that could lead to data loss on a third-party storage system for critical business segments.

Which solution should the architect propose to help the customer to protect their digital enterprise?

- A. an HPE StoreOnce solution configured to take backups of the critical data from the third-party storage
- B. an HPE StoreAll solution configured to migrate the critical data to object-based storage
- C. an HPE StoreVirtual solution configured as a secondary node to replicate the critical data on the third-party storage
- D. an HPE 3PAR StoreServ solution configured to peer persistence with the third-party storage to protect the critical data

Correct Answer: D