

HPE0-S22^{Q&As}

Architecting Advanced HPE Server Solutions

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QUESTION 1

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

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

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=5365577anddocLocale=en_USanddocId=emr_na-c04785597

QUESTION 3

A customer plans a partial migration from VMware to Red Hat Enterprise Virtualization (RHEV). The customer plans to purchase a new server platform for RHEV implementation with Gen9 server blades and Virtual Connect FlexFabric modules.

Which additional product should the architect include in the proposal?

- A. HPE Cluster Management Utility (CMU). because BIOS/UEFI settings for a server running RHEV can only be managed by using CMU

- B. HPE Smart Update Manager licenses, because that is the only method that customers can use centralized firmware updates and driver management
- C. HPE Cloud System 9 Foundation, because this will allow the customer to burst to the public cloud and will enable deployment of the services based on the physical machine
- D. HPE OneView Advanced, because together with the HPE OneView licenses, the customer will gain right-to-use for HPE OneView for RHEV

Correct Answer: A

QUESTION 4

An architect is choosing between 1GbE 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

QUESTION 5

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

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-gen9-server.7307070.html>

QUESTION 6

An architect is planning an HPE Integrity Superdome X solution. One nPartition will include two HPE BL920s Gen9 blades. After discussions and testing, the architect determines that the nPartition requires more memory than initially planned. Which approach should the architect recommend to the customer to ensure optimum performance?

- A. Provision each blade in the nPartition with the same amount of memory
- B. Add DIMMs in multiples of 12 even if this means adding more capacity than necessary
- C. Favor using lower capacity DIMMs to fill more memory slots on each channel
- D. Avoid using all memory channels on a processor

Correct Answer: A

QUESTION 7

A customer needs a live transcoding solution that meets the following requirements:

1.
Supports thousands of HD streams
 2.
Provides GPU acceleration
 3.
Provides a high density of streams per Watt and rack unit
- Which solution should the architect recommend?
- A. Several HPE Apollo 6000 Systems with HPE ProLiant XL220a server nodes
 - B. Several HPE Moonshot Systems with m700 cartridges
 - C. Several HPE Moonshot Systems with m710p cartridges
 - D. Several HPE Apollo 6000 Systems with HPE ProLiant XL230a server nodes

Correct Answer: C

QUESTION 8

An architect is planning an HPE Moonshot System deployment. The architect plans to individually connect each management module to the management network. The customer then informs the architect that this plan requires too many 1GbE ports per rack for the data center infrastructure.

What should the architect do to meet the customer's needs, while still allowing iLO access to the HPE Apollo Systems?

- A. Have iLO traffic share the same ports as production traffic and inform the data center administrators that they should use VLANs to separate the two types of traffic.
- B. Ensure that HPE Advanced Power Manager aggregates iLO access, as well as provides other rack and power management benefits.
- C. Enable the iLO REST API on each HPE ProLiant XL server.
- D. Add one Innovation Zone module on each chassis to connect to HPE Insight Cluster Management Utility (CMU).

Correct Answer: A

QUESTION 9

A proposed solution includes the HPE Moonshot-4QSFP+ Uplink Modules. The customer informs the architect that the planned purchase of 40GbE switches has been postponed. The customer still intends to purchase 40GbE switches within a year, but in the meantime, existing 10GbE switches will be used. These switches are HPE network switches located 25 meters from the location of the racks that house the HPE Moonshot Solution. The customer needs 30Gb/s bandwidth.

Which action should the architect recommend to allow the customer to deploy the solution immediately and easily take advantage of 40GbE when deployed later?

- A. Swap in HPE Moonshot-16SFP+ Uplink Modules
- B. Replace the QSFP+ transceivers with SFP+ transceivers
- C. Add QSP+/SFP+ adaptor kits to the design
- D. Replace the DAC cables with DAC splitter cables

Correct Answer: C

QUESTION 10

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 system 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 in operational 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

QUESTION 11

A customer is considering an object storage solution that will provide optimal rack density and will distribute the data with a very resilience across multiple servers and multiple sites. Which type of storage architecture should the architect design to provide the most cost-effective solution?

- A. Direct Attached Storage (DAS)
- B. Cloud Storage
- C. Fibre Channel SAN
- D. iSCSI/FCoE

Correct Answer: C

QUESTION 12

An architect is proposing a solution that has two HPE Moonshot 1500 chassis, each of which is full of m700 cartridges. The customer needs the solution to quickly deploy the OS to cartridges, back up a golden node image. and clone the image.

The customer is concerned about cost and is not interested in managing or monitoring performance of the solution,

Which solution meets these requirements?

- A. HPE Insight Cluster Management Utility (CMU)
- B. HPE Intelligent Provisioning (IP)
- C. HPE OneView 2.0
- D. HPE Insight Control server provisioning (ICsp)

Correct Answer: A

Reference: [https://www.google.com/url?](https://www.google.com/url?sa=t&drct=j&andq=andesrc=s&andsource=web&andcd=1&andcad=rja&andduact=8&andved=0ahUKEwjU36a30sHTAhVJShQKHSt0BhYQFggnMAA&andurl=http%3A%2F%2Fwww.hpe.com%2Fsupport%2Fmoonshot_os_deployment_en&andusg=AFQjCNHzc8octr9gtYrHDWIERZNFwTSoEwandsig2=ITJAdGidDUOSIN-6u7QKeQ)

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QUESTION 13

Which network infrastructure components should an architect consider when recommending 40GbE in a server solution?

- A. OM2 cables can be reused for runs of 50 meters or less
- B. OM4 cables can be reused for all runs out to the maximum of 300 meters
- C. Cables will need to be replaced by multi strand MPO cables

D. Multimode cables will all need to be replaced by single mode cables

Correct Answer: C

QUESTION 14

An architect is planning an HPE Moonshot System to host a customer Hadoop MapReduce2 application. The architect originally proposed the following:

1.

m710 cartridges

2.

HPE 45XGc switches

3.

HPE 4-QSFP+ Uplink Modules

The customer now needs each HPE Moonshot chassis to provide at least 1TB of memory and 40TB of local storage. Cartridge nodes need two 10GbE ports each.

What does the architect need to replace in the solution to meet the customer's new requirements?

A. m710 cartridges with m350 Cartridge, which provide more memory

B. m710 cartridges with m710p cartridges, which support higher capacity local drives

C. 45XGc switches with 180G switches, which provide the required two 10GbE ports to the cartridges

D. 4-QSFP+ Uplink Modules with 16-SFP+ Uplink Modules, which provide 10GbE ports to the cartridges

Correct Answer: D

QUESTION 15

A customer needs to order an HPE Apollo 2000 chassis and compute trays. The customer's requirements are as follows:

-Four nodes

-SATA SSD storage of 23TB

-

HPE Secure Encryption on the storage Which compute tray should the architect recommend?

A.

XL190r

B.

XL220a

C.

XL230a

D.

XL170r

Correct Answer: A

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