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Architecting Advanced HPE Server Solutions

HP HPE0-S22

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QUESTION NO: 1

An architect is planning an HPE Apollo 4530 solution to support the Cloudera distribution of Spark and HDFS. Each HPE ProLiant XL450 in the solution uses the following baseline recommendations:

- 15 8TB HDDs (120TB total)
- 2 10-core 2.3GHz processors
- 128GB memory (64GB on each processor) - 2-port 10GbE FlexibleLOM

The architect has planned enough servers to meet the customer's requirements for total capacity.

Which two components in this plan are most likely to cause a bottleneck as an increasing number of Spark applications run?

- A.** processor and memory
- B.** adapter bandwidth and processors
- C.** drive capacity and memory
- D.** drive type (HDD versus SSD) and drive capacity

ANSWER: C**QUESTION NO: 2**

A customer needs an HPE Apollo 6000 solution and Remote Direct Memory Access (RDMA).

Which network interconnects should the architect recommend for this solution? (Choose two.)

- A.** 1 GbEthernet
- B.** Infiniband
- C.** FlexFabric
- D.** 16 Gb Fibre Channel
- E.** 12G SAS

ANSWER: A B**QUESTION NO: 3**

A customer needs a hosted physical desktop solution. Users will run typical office applications with limited use of some media-rich applications such as Adobe Photoshop. The customer needs the densest and most cost-effective solution that can support such users.

Which HPE Moonshot cartridge should the architect recommend?

- A. HPE m710
- B. HPE m400
- C. HPE m700
- D. HPE m710p

ANSWER: D

Explanation:

Reference: <https://www.hpe.com/us/en/product-catalog/servers/moonshot-systems/pip.hpe-proliant-m710p-server-cartridge.8732043.html>

QUESTION NO: 4

A customer needs to use LACP to aggregate server network connections. The customer also needs to bond all FlexLOM connections in a single network across multiple switches.

Which networking feature should the architect recommend to meet the customer's needs?

- A. Intelligent Resilient Framework
- B. Transparent Interconnection of Lots of Links
- C. Network Virtualization using Generic Routing Encapsulation
- D. Shared Uplink Sets

ANSWER: A

QUESTION NO: 5

An architect needs to scope the number of required m710p cartridges for video transcoding. The architect plans to aim for an additional 20 to 25 percent growth capacity.

In addition to this growth capacity, which factors will determine the number of required cartridges? (Choose two.)

- A. the amount of memory required
- B. the number of video streams required
- C. the number of formats to which to convert

- D. the number and type of processors
- E. the amount of storage capacity required

ANSWER: B E

QUESTION NO: 6

An architect proposes an HPE Moonshot server solution for a customer. The customer needs a single processor solution with a network switch to allow 10Gb connectivity and support for a software-defined network solution.

Which HPE Moonshot switch module meets the customer's needs?

- A. 180G Switch Module
- B. 45Gc Switch Module
- C. 45XGc Switch Module
- D. 45G Switch Module

ANSWER: C

QUESTION NO: 7

An architect is determining the amount of memory to propose for an HPE XL230a compute tray.

The customer specifies several requirements, properties, and parameter of the application.

Which factor will critically affect the memory amount requirement to prevent a potential memory bottleneck?

- A. The application stores data on local drives.
- B. The application requires CPUs with multiple cores to support multiple HPC jobs.
- C. The application is single-threaded high performance computing (HPC).
- D. Secure Encryption of locally stored data is required.

ANSWER: B