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Architecting Advanced HPE Server Solutions

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QUESTION 1

A customer has an Ethernet-based storage solution. The customer needs to upgrade its servers to prepare for expanding storage. The customer has spent a lot of money to update its Ethernet infrastructure, so does not want to change it.

The customer has DAS and NAS-based storage and plans to implement a Fibre Channel SAN-based storage array within the next six to eight months.

Which server-based solution meets the customer's future needs?

- A. HPE Apollo 8000 solutions
- B. HPE DL360 solution with fibre-based HBAs
- C. HPE BL460c solution with Converged Networks Adapters
- D. HPE Moonshot solutions

Correct Answer: C

QUESTION 2

How does the HPE c7000 BladeSystems use of network infrastructure compare with the HPE Apollo 6000's?

- A. The HPE c7000 BladeSystem offers less port variety.
- B. The HPE c7000 BladeSystem offers greater port consolidation.
- C. The HPE Apollo 6000 offers greater per server connectivity.
- D. The HPE Apollo 6000 uses fewer network ports per server.

Correct Answer: A

QUESTION 3

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 4

An architect proposes an HPE Moonshot solution with three HPE Moonshot 1500 Chassis as follows: - one chassis with 30 m710 cartridges

-two chassis with 30 m800 cartridges each

The customer wants to change the solution to use two HPE Moonshot 1500 chassis as follows:

- one chassis with 30 m710 cartridges and 15 m800 cartridges - one chassis with 45 m800 cartridges

What should the architect explain to the customer?

- A. Mixing different models of cartridges in the same chassis is not supported
- B. A chassis can support both m710 and m800 cartridges, but the m710 cartridges will not be able to use their accelerators
- C. Mixing different models of cartridges requires the customer to use an HPE Moonshot Provisioning Manager (MPM)
- D. A chassis can support both m710 and m800 cartridges, but the m710 cartridge adapters will operate at 1Gbps rather than 10Gbps

Correct Answer: B

QUESTION 5

An architect plans to propose a solution and illustrate how it will reduce the predictable and repeatable costs for items and services not registered as assets. Which reporting period information helps the architect achieve this goal?

- A. total cost of acquisition (TCA)
- B. internal rate of return (IRR)
- C. gross profit (GP)
- D. operating expenditure (OPEX)

Correct Answer: D

QUESTION 6

A customer plans to purchase some c7000 blade enclosures equipped with Virtual Connect FlexFabric modules to support its development and test team. The customer is concerned about frequent changes to the server blade connectivity. In the initial proposal, an architect included HPE OneView, and now the customer wants to learn how HPE OneView will address their concern.

Which HPE OneView functionality should the architect explain to the customer?



- A. all external connectivity changes will be automatically discovered and server profiles will be automatically updated to reflect the change.
- B. the customer can use different plugins to visualize network and storage connectivity, and change them by using the drag and drop method.
- C. the customer can create profile templates, deploy server profiles from the template, and, if necessary, use the same method to update server connectivity.
- D. the customer can access HPE Virtual Connect Enterprise Manager and perform connectivity changes for all servers in the same Virtual Connect Domain Group.

Correct Answer: B

QUESTION 7

A customer has HPE BladeSystem BL460c Gen9 blades with two processors and 512GB of memory. The blades are running a MS-SQL database on a clustered 2TB SAS virtual volume that is exported from an HPE 3PAR StoreServ 8200. The customer reports that the MS-SQL database is performing poorly.

After extensive performance trending analysis, it is determined that the database front-end I/O requirements are unpredictable and often exceed 100,000 IOPs with latency in excess 30ms at critical times.

Which solution should the architect recommend to resolve the performance issue with consideration to cost and complexity?

- A. Increase the memory on the blades to 2TB.
- B. Install SSD drives local to the BL460c.
- C. Install an HPE IO Accelerator on the blade.
- D. Add Adaptive Optimization licensing.

Correct Answer: B

QUESTION 8

A customer has an HPE c7000 chassis with the following components installed:

- Cisco Fabric Extender
- Fibre channel pass-through modules
-

BL460c Gen9 blades with LPe1605

The architect needs to allow network bandwidth control for some of the customer's critical servers and server-to-server communication for vMotion.

Which modification should the architect recommend?



A.

Replace the Fibre Channel pass-through modules with HPE Virtual Connect 16Gb modules

B.

Replace the Cisco Fabric Extender with HPE FlexFabrix 20/40 F8 modules

C.

Change the QoS setting on the Fibre Channel pass-through modules

D.

Change the setting within the Onboard Administrator to enable QoS

Correct Answer: B

QUESTION 9

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 10

A customer needs to streamline monitoring to its HPE Apollo 6000 solution.

Which benefit can HPE Advanced Power Management (APM) provide to this customer?

A. It discovers and inventories XL servers installed in the HPE Apollo chassis.

B. It monitors the utilization of resources such as CPU and memory.

C. It enables HPE OneView to automatically discover and map the chassis and its servers.

D. It audits the firmware on XL servers installed in the HPE Apollo chassis.



Correct Answer: A

QUESTION 11

What is one advantage of hard partitioning, or nPartitioning, for HPE Integrity Superdome X as compared to virtual partitioning?

- A. It permits the flexibility to assign different processor cores on the same processors to different partitions
- B. It allows a single blade to support more guest operating systems
- C. It provides greater reliability because partitions are electronically isolated
- D. It enables HPE Helion CloudSystem to deploy VMs to the Integrity Superdome X System

Correct Answer: C

QUESTION 12

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 13

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:

1.
135 processors with 4 2.9GHz cores each
- 2.
4. 32TB RAM
- 3.



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

QUESTION 14

An architect explains a software-defined data center (SDDC) concept and its benefits to a customer. The customer indicates an interest and so the architect needs to verify whether the customer is ready to move to the SDDC. Which additional information should the architect obtain from the customer to verify this?

- A. whether they already virtualize compute and storage resources
- B. whether they have a disaster recovery plan implemented
- C. whether they have standardized on a single vendor
- D. whether they have a workplace mobility plan implemented

Correct Answer: A

QUESTION 15

What is a basic assumption for an architect using the HPE Servers TCO calculator to justify a customer's migration away from a fully depreciated set of hardware?

- A. By analyzing the project's internal rate of return (IRR), it is possible to determine if the lower IRR will make it more desirable to undertake the project.
- B. When the customer's older systems are under a support contract, a new system can sometimes pay for itself simply by not renewing the older support contracts.
- C. The Net Present Value (NPV) is the difference between the value of the older systems and the cost of the new systems.
- D. The opportunity costs of not migrating from a legacy environment to an HPE Converged Infrastructure Solution, in terms of IT Efficiency and User Productivity, will always justify the purchase.

Correct Answer: C
