



Cisco

Exam Questions 700-905

Cisco HyperFlex for Systems Engineers

NEW QUESTION 1

There are often disadvantages when using mixed hardware, and uniform systems are highly advised. What are three disadvantages of using validated yet mixed hardware? (Choose three.)

- A. "Hardware only" solutions require less latency for data aggregation.
- B. "Software only" solutions are inherently more secure, adhering to government regulations.
- C. "Software only" HCI solutions often mean that HCI vendors do not have control over the hardware that the consumer is using.
- D. The lack of control over the hardware can result in hardware not being security-compliant (usually the case with white box solutions) or not being optimally configured for the given HCI solution.
- E. Validated yet "mixed" hardware systems may be supported by the specific original equipment manufacturers but software vendors require a master level services agreement.
- F. "Software only" solutions can result in a lack of simplicity for installation and maintenance.
- G. While setup and maintenance of an HCI solution might be simple you still need to configure and maintain the hardware part, which is not orchestrated by the HCI solution.
- H. Validated hardware does not mean smooth performance, which particularly applies to hardware that is seldom chosen for the hardware part of the "software only" solution.

Answer: CEF

Explanation:

What Is Cisco HyperFlex?

Cisco HyperFlex is a Cisco interpretation of what a hyperconverged solution should look like. HyperFlex tightly integrates software and hardware, for in an easy to install and easy to operate solution.

Some vendors define hyperconverged solutions as software only, which means that when you buy hyperconverged software, you can use any hardware. But that is not really true, because you must follow the hardware compatibility list (HCL) for your individual solution or you will not have vendor support. There are also often huge disadvantages when using mixed hardware, and uniform systems are highly recommended.

While choice is a good thing, it comes with a cost:

- Validated hardware does not mean smooth performance, which particularly applies to hardware that is seldom chosen for the hardware part of the "software only" solution.
- "Software only" HCI solutions often mean that HCI vendors do not have control over the hardware that the consumer is using. The lack of control over the hardware can result in hardware not being security-compliant (usually the case with white box solutions) or not being optimally configured for the given HCI solution.
- "Software only" solutions can result in a lack of simplicity for installation and maintenance. While setup and maintenance of an HCI solution might be simple you still need to configure and maintain the hardware part, which is not orchestrated by the HCI solution.

NEW QUESTION 2

Which three features for NVMe transfer protocol are valid? (Choose three.)

- A. Uses PCIe interface
- B. Streamlined commands for fewer CPU instructions
- C. More and deeper queues
- D. Requires 10 controller
- E. Increases memory speed for more IOPs
- F. Improves SAS and SATA speed

Answer: ABC

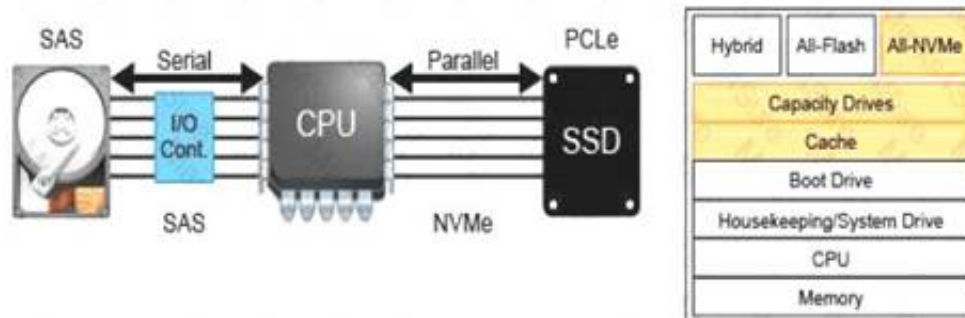
Explanation:

Transfer Protocol: NVMe

Earlier technologies (such as SAS and SATA) that were architected for hard disk drives are unable to take the full advantage of SSDs' potential. This problem warranted the need for a new architecture: Non-Volatile Memory Express (NVMe).

NVMe is a transfer protocol with these features:

- Uses the PCIe interface.
- Does not need an I/O controller and communicates directly with the CPU.
- Uses many more and deeper queues for command submission than SAS/SATA.
- Streamlines the command set to generate fewer CPU instructions.
- In HyperFlex:
 - NVMe (regular or Optane) disks can be used for cache in All-Flash version.
 - Regular NVMe is capacity and Optane is cache in All-NVMe version.



NEW QUESTION 3

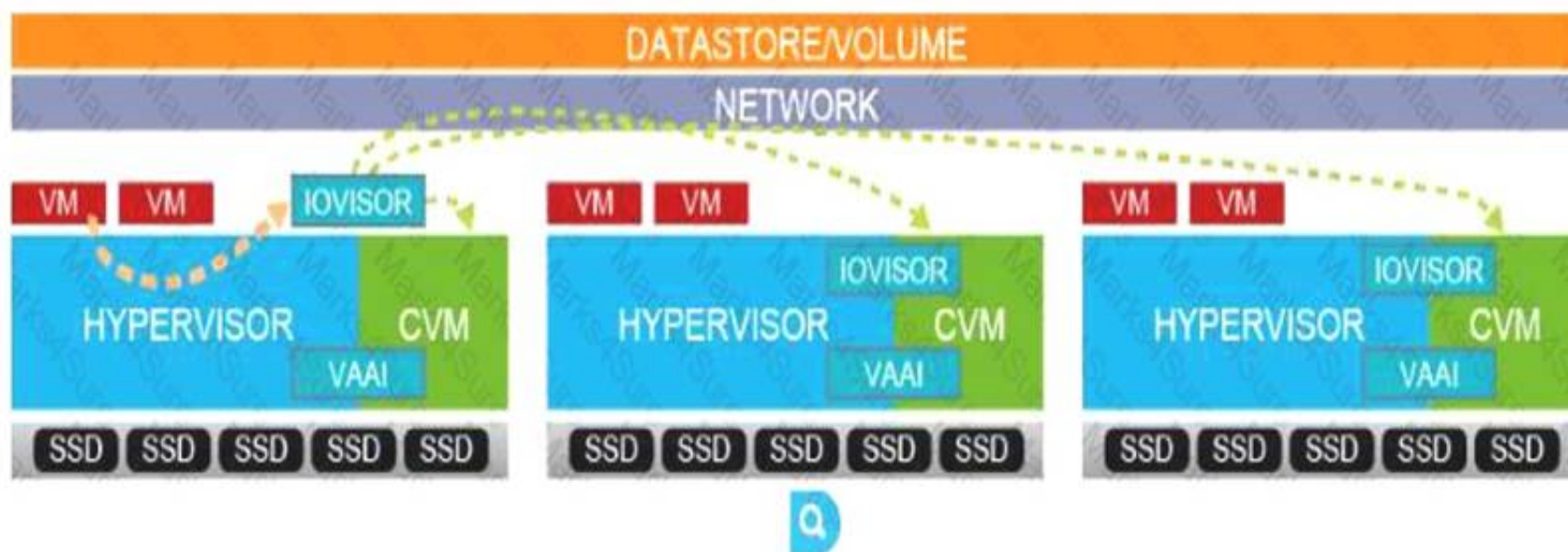
When local writing or reading is performed, the IOVisor intercepts the read/write requests and forwards them to CVMs across the cluster. This action allows non-local CVMs to be aware of the input/output requests so that they can perform the appropriate input/output action. IOVisor provides which two additional functionalities? (Choose two.)

- provides redundancy when local CVM fails, offloading data processing to another CVM in the cluster
- when an IOVisor fails, the CVM remains active and functional, which enables uninterrupted operation of the system by forwarding IO to another available IOVisor in the HyperFlex cluster
- enables asynchronous replication of data across individual HyperFlex nodes with sub-second re-convergence
- integration point for deployment of cloud-based SaaS offerings from eco-system partners
- intercepts local virtual machines' reads and writes and distributes them across the network eliminating hotspots

Answer: AE

Explanation:

IOVisor provides these functionalities:



- Intercepts local virtual machines' reads and writes and distributes them across the network, eliminating hotspots.
- Provides redundancy when local CVM fails, offloading data processing to another CVM in the cluster.
- Enables synchronous replication of data across individual HyperFlex nodes according to replication factor.

When local writing or reading is performed, the IOVisor intercepts the read/write requests and forwards them to CVMs across the cluster. This action allows non-local CVMs to be aware of the input/output requests so that they can perform the appropriate input/output action. This feature enables the entire cluster to function as one coherent storage using the network.

NEW QUESTION 4

Which statement about Standalone Cisco UCS Server Deployments is valid?

- They require Cisco Fabric Interconnects to operate, which reduces the Operating Expenses (OpEx) associated with the deployment
- They do not require Cisco Fabric Interconnects to operate, which reduces the Operating Expenses (OpEx) associated with the deployment
- They do not require Cisco Fabric Interconnects to operate, which reduces the Capital Expenses (CapEx) associated with the deployment
- They require Cisco Fabric Interconnects to operate, which reduces the Capital Expenses (CapEx) associated with the deployment

Answer: C

Explanation:

Standalone deployments have these features:

- Reduced upfront cost, but increased management overhead.
- Good for single deployments or small environments, but do not scale well.
- You are always able to integrate a single deployment into a centrally managed infrastructure.

Standalone deployments of servers do not require Cisco Fabric Interconnects to operate, which reduces the Capital Expenses (CapEx) associated with the deployment. It does not mean that the long-term total cost of ownership (TCO) is better in standalone deployment scenarios, because management overhead is much greater than in a managed deployment scenario, especially in larger deployments.

NEW QUESTION 5

What is the minimum amount of memory required for an HX node?

- 192 GB
- 64 GB
- 32 GB
- 128 GB

Answer: D

Explanation:

HyperFlex Edge servers have lower hardware requirements than standard HyperFlex servers:

- Cisco Fabric Interconnects are not part of the solution, hardware configured over Cisco IMC.
- Only 1 CPU per server required.
- Minimum 8 RAM sticks per server, up to 12 supported per CPU.
- 128 GB of RAM required, 192 GB recommended.
- 3-8 capacity drives (6-8 on standard HX 220).
- mLOM not required.
- PCIe NICs available with dual 10-G and quad 1-G RJ45 Ethernet connectivity.

NEW QUESTION 6

Where is the VIC configuration for number type, identify, failover, settings, and bandwidth stored?

- A. in non-volatile memory on the VIC
- B. in UCS Manager service profiles
- C. in VCenter virtual machine image
- D. in UCS Manager server profiles

Answer: D

NEW QUESTION 7

A Controller Virtual Machine (CVM) is an Ubuntu Linux VM that lives outside the converged data platform on the housekeeping drive since it is involved in creating the convergence data platform Which two features for CVMs are valid? (Choose two.)

- A. creates hooks for services related to third-party abstraction applications
- B. does not perform caching, deduplication, and compression of data
- C. an Ubuntu based VM running in the control space of each individual server, having linear access to the server's VMs and networking controls
- D. needs network access to ESX
- E. other CVMs, and management network
- F. is installed automatically by the HyperFlex installer, configured through the installer

Answer: DE

Explanation:

A CVM is an Ubuntu Linux VM that lives outside the converged data platform on the housekeeping drive, since it is involved in creating the converged data platform.

The CVMs have these features:

- An Ubuntu based VM running in the hypervisor of each individual server, having direct access to the server's storage.
- Is installed automatically by the HyperFlex installer, configured through the installer.
- Needs network access to ESXi, other CVMs, and management network.
- Performs caching, deduplication, and compression of data.
- Utilizes IOVisor to distribute data across the HyperFlex cluster.
- Provides HX Connect, HyperFlex CLI, and REST API for management.
- CVMs are responsible for logging.

NEW QUESTION 8

Which Cisco UCS Server running HXDP supports the largest storage pool?

- A. UCS B200
- B. HX220
- C. HX 240
- D. UCS B480

Answer: C

Explanation:

When you evaluate the servers that are most appropriate for your environment, consider these general guidelines:

- Choose HX240 servers to maximize the storage pool.
- Choose HX220 servers to ensure high compute power (relative to storage).
- Choose all-flash platforms to increase IO performance.
- For environments where storage performance is crucial, use All-NVMe nodes once HyperFlex 4.0 is released.

NEW QUESTION 9

Which two ways does Cisco HyperFlex upgrade the traditional RAID? (Choose two.)

- A. HyperFlex enables stretched RAID arrays spanning multiple geographic sites.
- B. Hardware replacement initiates self-healing with minimal impact
- C. Limiting the number of drives locally, which are not a part of the shared datastore.
- D. Distributing data locally, not just across the hosts in HyperFlex cluster
- E. Eliminating the need for additional hardware cards, while maintaining high performance.

Answer: BE

Explanation:

Cisco HyperFlex upgrades the **traditional** RAID by:

- Not limiting the number of drives, which are a part of the shared datastore.
- Distributing data across the hosts in HyperFlex cluster, not just locally.
- Hardware replacement initiates self-healing with minimal impact.
- Eliminating the need for additional hardware cards, while maintaining high performance.

NEW QUESTION 10

Which two processes does failure on a node initiate? (Choose two.)

- A. Distributed pooled data is migrated off nodes to master data store.
- B. Affected node is marked as unhealthy and placed into standby mode
- C. A call-home process is initiated and the failure is reported to TAC
- D. The VMs on the failed node are moved to another node by vSphere high availability
- E. The system is marked unhealthy but remains operational.

Answer: DE

Explanation:

Node Failure

Failure on a node **initiates** the following process:

1. The system is marked unhealthy but remains operational.
2. The VMs on the failed node are moved to another node by vSphere high availability.
3. VMs keep reading from the remaining copies with minimal impact to performance.
4. A 2-hour countdown **initiates** before self-healing process.

NEW QUESTION 10

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