Cisco

Exam Questions 700-905

Cisco HyperFlex for Systems Engineers

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NEW QUESTION 1
How many separate VLANs must each HyperFlex node be configured with running ESXi?

A. 1
B. 2
C. 3
D. 4

Answer: D

Explanation:

The virtual environment has the following characteristics:

- HyperFlex nodes are emulated using VMs running ESXi installations

Server Selection	Chosen Servers (Checkbox)	Server 1, Server 2, Server 3
	Management VLAN	3091
	Storage Traffic VLAN	3092
	vMotion VLAN	3093
	VM Network VLAN	3094

NEW QUESTION 2
When building a HyperFlex cluster which two recommendations should be followed? (Choose two.)

A. Use HX 220s for compute nodes and HX 240s for converged nodes
B. Use B-Series servers to improve converged node scale.
C. Use the same CPU model but memory configuration can be different.
D. Use the same server configuration for the cluster.
E. Use the same server model for the cluster.

Answer: DE

NEW QUESTION 3
When cabling a given HX node to the Fabric Interconnect which three actions are required? (Choose three.)

A. Connect the node to different port numbers on each of the two Fabric Interconnects.
B. Connect port 1 on the VIC to Fabric Interconnect A.
C. Connect server port L1 to Fabric Interconnect port L1.
D. Connect the node to the same port number on each of the two Fabric Interconnects.
E. Connect server port L2 to Fabric Interconnect port L2
F. Connect port 2 on the VIC to Interconnect B.

Answer: BDF

Explanation:

Connect Fabric Interconnect heartbeat: L1-L1 and L2-L2 ports. Optionally connect console management cables to terminal server.

Connect VIC ports on each server to Fabric Interconnects. One port to Fabric Interconnect A, one to Fabric Interconnect B.

Connect uplink both Fabric Interconnects to upstream switch. And connect the IP out-of-band (OOB) management to an access port.

NEW QUESTION 4
If a GPU card is Installed in HyperFlex nodes before a cluster is created, which action can be used to automatically build the service profile in UCS Manager?

A. Check Run UCS Manager Configuration during the cluster creation process
B. Check the extended memory option during the cluster creation process
C. Check the GPU workflow during the cluster creation process
D. Check the administrative workflow option during the cluster creation process

Answer: C

Explanation:

If the GPU card is installed before the cluster is created, then, during cluster creation, choose the **Advanced** workflow:

- On the HXDP installer page, choose **I know what I'm doing, let me customize my workflow**.
- Check **Run Cisco UCS Manager Configuration** and click **Continue**. This creates the necessary service profiles for the HyperFlex nodes
- Verify that BIOS Setting by setting **MMIO Above 4-GB** configuration to **Enabled**.
  - If it is not, enable it and you will need to reboot the servers.
- Go back to the **Advanced** workflow on the HX Data Platform Installer page to continue with **Run ESX Configuration**, **Deploy HX Software**, and **Create HX Cluster** to complete cluster creation.

NEW QUESTION 5
How many memory channels does the Cisco UCS M5 server support per CPU?

A. 1
B. 2
C. 6
D. 8

Answer: C

NEW QUESTION 6
What does the letter W indicate when selecting CPUs for your HX Node (le. HX-CPU 8170M)?

A. support of 1.5 TB/socket of memory
B. support for all flash drive array
C. support for NVMe
D. support for 768 TB/socket of memory

Answer: A

Explanation:

CPU Options

There are several dozens of CPU variants that are available with Cisco HyperFlex M5 servers. The product IDs ending in "M" support 1.5 TB/socket of memory. All other CPU PIDs support 768-Gbps socket memory.

The table lists a few of the many variants, all with product IDs ending in "M." "M" indicates support for 1.5-TB memory per CPU, and up to 3-TB memory in the HyperFlex server (dual CPU.)

Product ID	Clock Freq (GHz)	Cache Size (MB)	Cores	Highest DDR4 DIMM Clock Support (MHz)
HX-CPU-8180M	2.5	38.50	28	2666
HX-CPU-6142M	2.6	22.00	16	2666
HX-CPU-6134M	3.2	24.75	8	2666
HX-CPU-8176M	2.1	38.50	28	2666
HX-CPU-8170M	2.1	35.75	26	2666
HX-CPU-8160M	2.1	33.00	24	2666

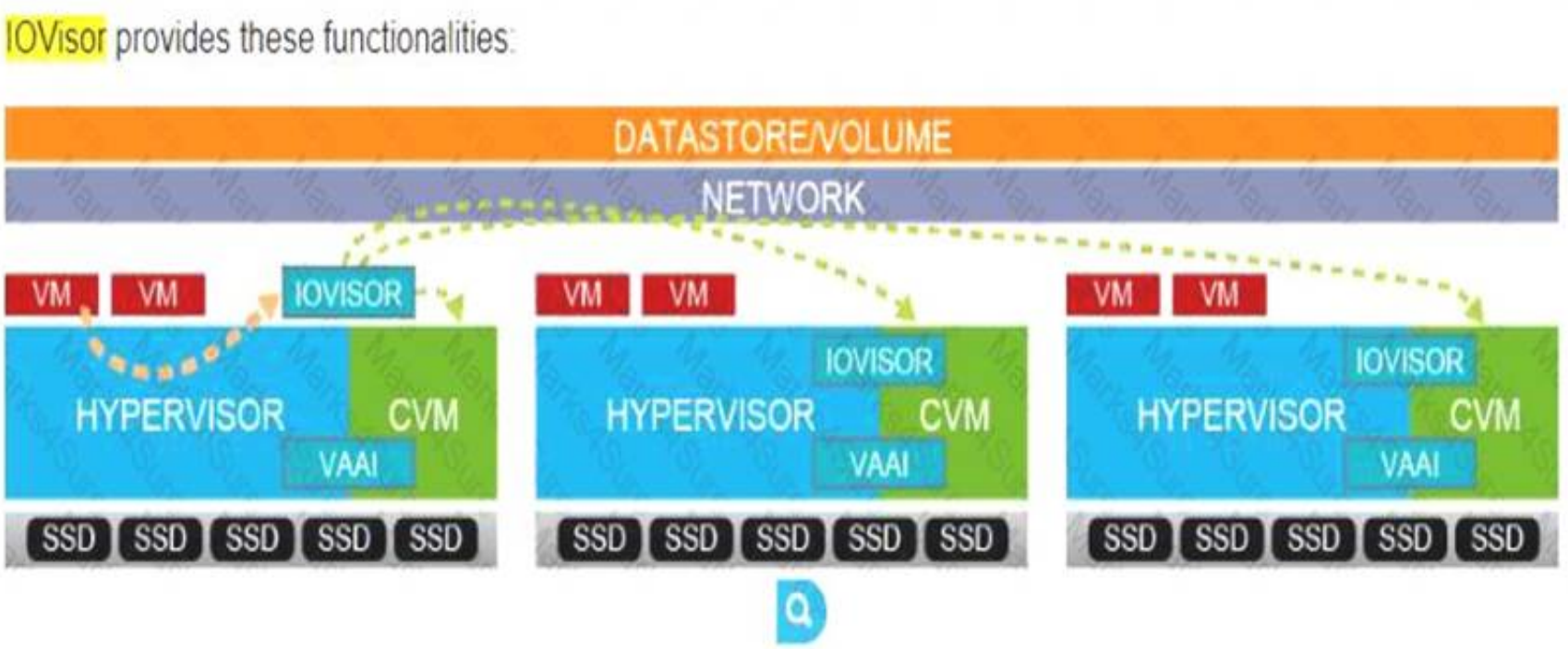
For a full list of available CPUs, refer to the server specification sheets.

NEW QUESTION 7
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.)

A. provides redundancy when local CVM fails, offloading data processing to another CVM in the cluster
B. when an lOVisor fails, the CVM remains active and functional, which enables uninterrupted operation of the system by forwarding 10 to another available lOVisor In the HyperFlex cluster
C. enables asynchronous replication of data across individual HyperFlex nodes with sub-second re-convergence
D. integration point for deployment of cloud-based SaaS offerings from eco-system partners
E. intercepts local virtual machines' reads and writes and distributes them across the network eliminating hotspots

Answer: AE

Explanation:



- 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 8
Which two steps should be performed before installing HyperFlex? (Choose two.)

A. Determine and download recommended installer OVA version required
B. Complete the pre-installation checklist.
C. Determine and download recommended hypervisor
D. Download service profile templates
E. Determine and download virtual machine OS! required

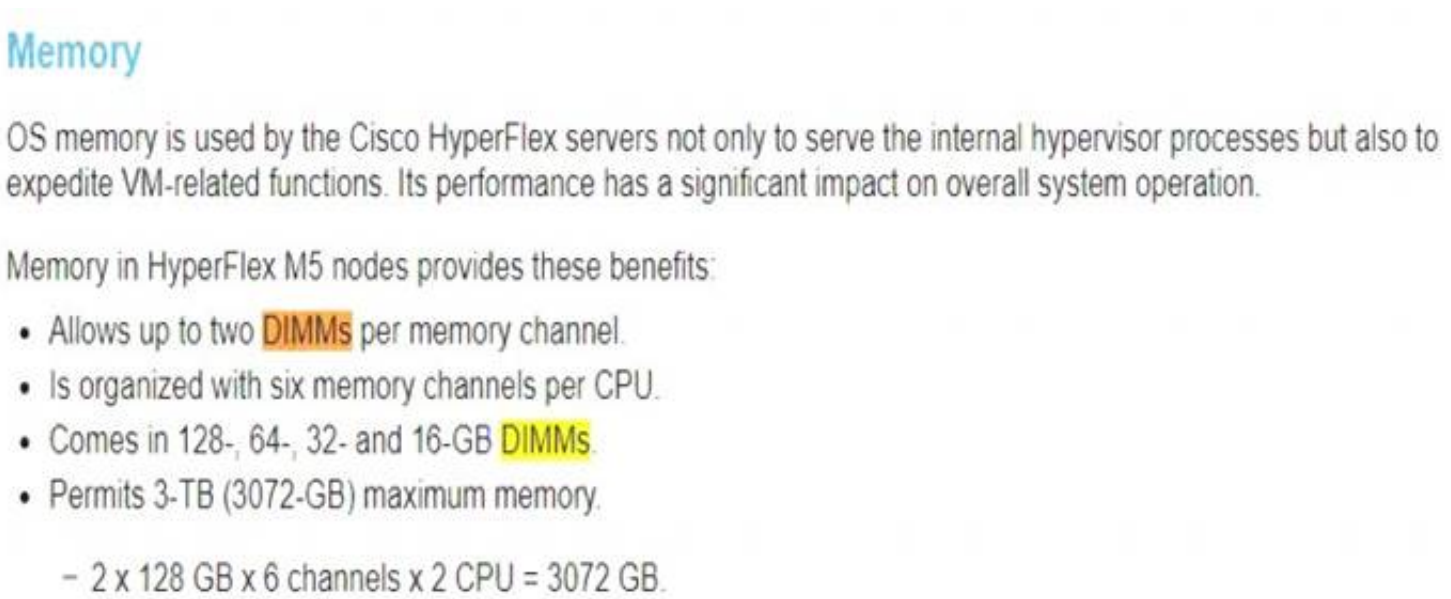
Answer: AB

NEW QUESTION 9
How many DIMMs are supported per memory channel in the Cisco UCS M5 server?

A. 2
B. 1
C. 8
D. 4

Answer: A

Explanation:

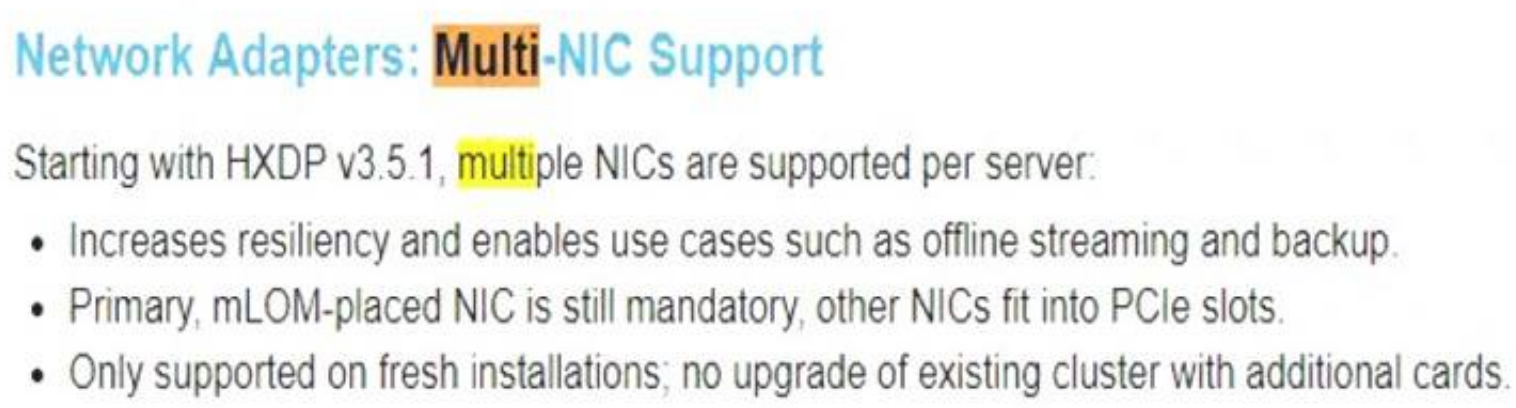


NEW QUESTION 10
Which version of HXDP was the first to support multiple VICs on a single server?

A. HXDP 3.5.1
B. HXDP 3.0
C. HXDP 4.0
D. HXDP 3.5

Answer: A

Explanation:

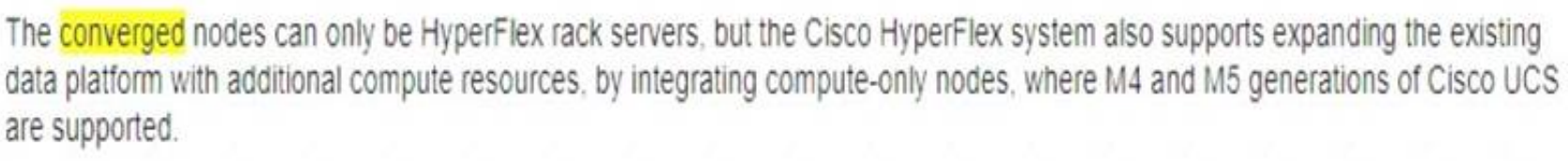


NEW QUESTION 10
Which two Cisco UCS Servers support converged nodes in HyperFlex Data Platform (HXDP)? (Choose two.)

A. HX 220
B. UCSB200
C. UCS C480
D. UCS B480
E. HX240

Answer: AE

Explanation:



NEW QUESTION 11
Which three functionalities are provided by VAAI? (Choose three.)

A. When a native snapshot is requested, the request is processed by the hypervisor.
B. Missing pieces of data are re-created from the remaining nodes in service
C. Cisco HXDP creates a file system native snapshot which is registered in the vSphere.
D. VAAI performs caching, deduplication: and compression of data.
E. Instead of the snapshot being performed in hypervisor it is offloaded to Cisco HXDP.
F. VAAI uses RAID to consolidate disks into a shared data platform.

Answer: ACE

Explanation:

VAAI provides these functionalities:

- When a native snapshot is requested, the request is processed by the hypervisor.
- Instead of the snapshot being performed in hypervisor it is offloaded to Cisco HXDP.
- Cisco HXDP creates a file system native snapshot, which is registered in the vSphere.

NEW QUESTION 15
Cisco HyperFlex AII-NVMe nodes are expected to be supported beginning in which HXDP version'?

A. HXDP 4.0.1
B. HXDP 3.5.1
C. HXDP 3 5.2
D. HXDP 4.0

Answer: D

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 19
Which uses for the system drive in an HX node are valid? (Choose two.)

A. Migration
B. Saving and restoring program state
C. Virtual machine store
D. Garbage collection
E. Write Cache

Answer: BD

Explanation:

Housekeeping/System Drive

Main notes to remember about 240-GB SSD housekeeping drive:

- Also known as system drive.
- Second drive used by the controller VM.
  - In addition to the boot drive.
- Used for various system operations:
  - Saving and restoring program state.
  - Removal of unneeded software.
  - Executing disk maintenance utilities.
  - Garbage collection.
  - Freeing local memory on the stack on exit from a function.
  - File backup.

NEW QUESTION 20
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