

Cisco

Exam Questions 700-905

Cisco HyperFlex for Systems Engineers



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

Which two components are automatically configured from the information provided to the HyperFlex installer? (Choose two)

- A. the network
- B. operating system deployment preparation
- C. controller VM configuration
- D. application dependencies
- E. server firmware policy

Answer: AC

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

What is required to cluster a pair of Fabric Interconnects?

- A. uplink connections to the enterprise network
- B. HXDP 3.5.2 or better
- C. connection between the FI pair using ports L1 and L2
- D. UCS Manager 2.1 or better

Answer: C

Explanation:

You can use a redundant **pair** of fabric interconnects in a cluster configuration. If one fabric interconnect becomes unavailable, the other takes over.

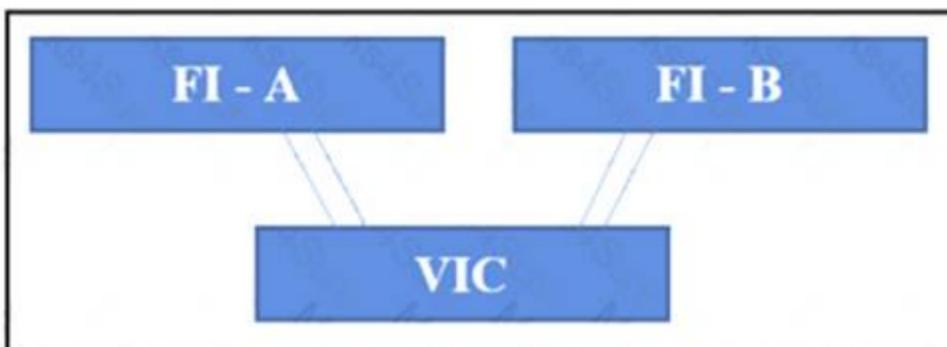
In addition, a cluster configuration actively enhances failover recovery time for redundant virtual interface connections. When an adapter has an active virtual interface (VIF) connection to one fabric interconnect and a standby VIF connection to the second, the learned MAC addresses of the active VIF are replicated but not installed on the second fabric interconnect. If the active VIF fails, the second fabric interconnect installs the replicated MAC addresses and broadcasts them to the network through gratuitous Address Resolution Protocol (ARP) messages, shortening the switchover time.

The cluster configuration provides redundancy only for the management plane. Data redundancy depends on the user configuration and might require a third-party tool to support data redundancy.

To use the cluster configuration, you must directly connect the two fabric interconnects using Ethernet cables between the L1 (L1-to-L1) and L2 (L2-to-L2) high-availability ports, with no other fabric interconnects in between. Also, you can connect the fabric interconnects directly through a patch panel to allow the two fabric interconnects to continuously monitor the status of each other and quickly know when one has failed.

NEW QUESTION 6

Refer to the exhibit.



Which VIC model supports two wire connectivity to each Fabric Interconnect?

- A. VIC 1227
- B. VIC 1557
- C. VIC 1387
- D. VIC 1457

Answer: C

Explanation:

Wiring Cisco HyperFlex Servers to Fabric Interconnects

You connect the Cisco HyperFlex servers to the Fabric Interconnects in the similarly as you wire other rack-mount servers.

Connect each HyperFlex server using unified wire to both Fabric Interconnects.

- HX UCS M5 as of HXDP v3.5.1 supports mLOM-based VIC1387 and VIC1457.
 - VIC1457 is supported only for ESXi-based deployments as of HXDP v3.5.1.
 - VIC1457 supports two wire connectivity to each Fabric Interconnect. VIC1387 is single wire to each Fabric Interconnect.
- It is not supported that you use Fabric Extender (FEX) between server and Fabric Interconnects.
- When connecting VIC to Fabric Interconnects, make sure port numbers match.
 - For example, a given server's VIC to port 1/3 on both Fabric Interconnects.
 - If ports do not match, installation will fail.



NEW QUESTION 7

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 8

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

- A. Determine and download recommended hypervisor
- B. Determine and download recommended VCenter required
- C. Download service profile templates
- D. Determine and download recommended UCS firmware required.
- E. Determine and download virtual machine OS' required.

Answer: AD

NEW QUESTION 9

HyperFlex uses file system native snapshots and provides which three features? (Choose three.)

- A. on datastore level, snapshots work the same as vSphere snapshots
- B. automatically deduplicating data of snapshots through StorFS
- C. impact on the VM performance after a lot of writes, requiring future administration
- D. limitations in age and number of snapshot
- E. See user manual for limitations
- F. consolidation of snapshots is still manual but not necessary
- G. automatic update to the golden image when a configuration change is made

Answer: ABD

NEW QUESTION 10

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 10

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 14

Cisco HyperFlex All-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 18

Which three configurations for read caching in Cisco HyperFlex are valid? (Choose three.)

- A. Battery-Initiated Read-back (default): Only read data and most commonly used data are deposited in the Level 4 read-back cache
- B. Write-back (default): Only write information and most commonly used information are deposited in the cache
- C. Write-through (install option for VDI): Only most commonly used data is cached: optimizing VDI performance
- D. No caching (SSD): With all-flash nodes; because there is little difference in read speeds between SSDs
- E. Level 4 cached (SSD): With semi-flash nodes; there is a large difference in read speeds between SSDs
- F. Write-first (default for VDI): Infrequently used data is cached: freeing system resources for VDI performance

Answer: BCD

Explanation:

There are three options for read **caching** in Cisco HyperFlex:

- **Write-back (default):** Only write information and most commonly used information are deposited in the cache
- **Write-through (install option for VDI):** Only most commonly used data is cached, optimizing VDI performance.
- **No caching (SSD):** With all-flash nodes, because there is little difference in read speeds between SSDs.

Regular Hybrid
(Write-Through)

VDI Hybrid
(Write-Back)

All-Flash
(No Read Cache)

NEW QUESTION 22

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 24

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 28

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