

# Cisco

## Exam Questions 700-905

Cisco HyperFlex for Systems Engineers



#### NEW QUESTION 1

Which three capabilities are provided by Virtual Interface Cards'? (Choose three.)

- A. Virtualizing object storage environments by pushing meta data directly to the management server
- B. The virtual interfaces created by a VIC do not accommodate hypervisor communication like VMkernel interfaces on vSphere.
- C. Management through Cisco IMC or UCS Manager with dynamic configuration of virtual interface cards based on the server profile (MAC/WWN).
- D. Traffic processing for internal and external communication supporting simultaneous HBA and NIC operation on the same physical hardware.
- E. Multiple-interface-card virtualization without any additional driver requirements with integration of the virtualized cards into the Fabric Interconnect infrastructure.
- F. A virtual environment, such as VMware vSphere, provides VM connectivity via a virtual switch to individual virtual machines bypassing local hardware requests.

**Answer:** CDE

**Explanation:**

VIC interface cards provide these capabilities:

- Traffic processing for internal and external communication supporting simultaneous HBA and NIC operation on the same physical hardware.
- Multiple-interface-card vitalization without any additional driver requirements with integration of the virtualized cards into the Fabric Interconnect infrastructure.
- Management through Cisco IMC or UCS Manager with dynamic configuration of virtual interface cards based on the server profile (MAC/WWN).

#### NEW QUESTION 2

Which three features do Managed Deployments provide? (Choose three.)

- A. Great for managing large deployments, scalability, and oversight of the UCS servers.
- B. Consistent deployment by replicating working configurations from development labs to the production deployment
- C. High availability of the management system and connectivity when using 2 Cisco Fabric Interconnects
- D. Individual configuration of each redundant fabric or global configuration.
- E. Increased operating overhead, raising Operating Expenses (OpEx)
- F. Decentralized yet complex management of an entire UCS domain.

**Answer:** ACD

**Explanation:**

Managed deployments provide these features:

- Centralized and simplified profile-based management of the entire Cisco UCS domain.
- Individual configuration of each redundant fabric or global configuration.
- High availability of the management system and connectivity when using two Cisco Fabric Interconnects.
- Great for managing large deployments, scalability, and oversight of the Cisco UCS servers.
- Reduced operating overhead, lowering operating expenses (OpEx).

In the context of Cisco HyperFlex, the centralized management platform for the entire cluster allows the HyperFlex installation to configure the servers automatically. The installation is therefore much simpler than if you had to configure the BIOS, disk drives, networking, and other hardware related features yourself.

#### NEW QUESTION 3

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

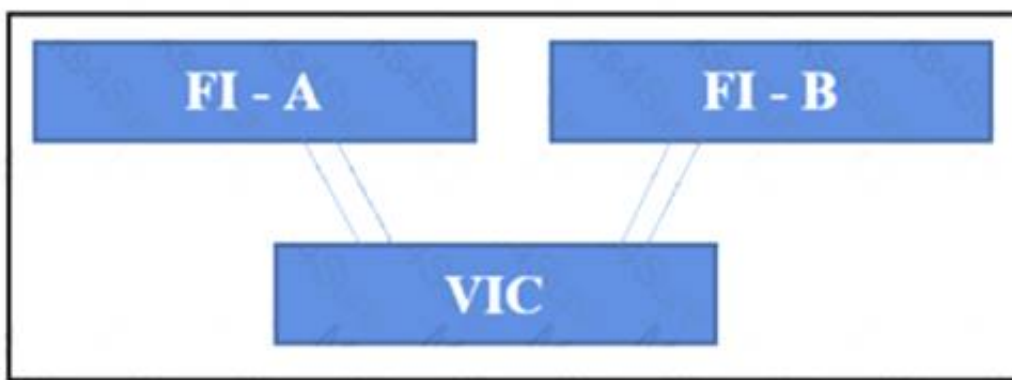
**Explanation:**

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 4

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**

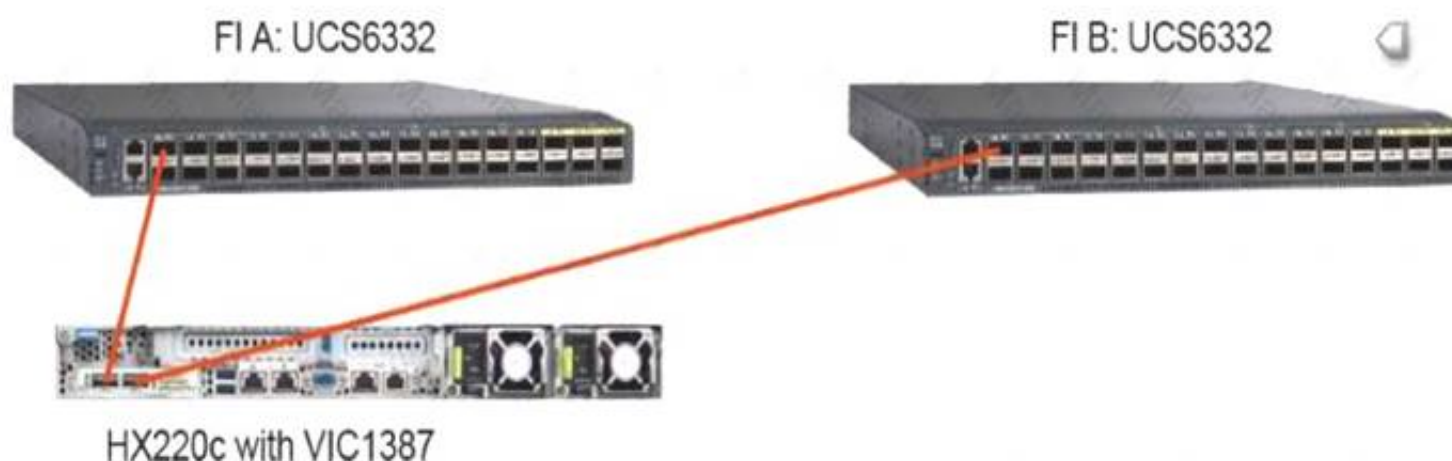
**Explanation:**

#### 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 5

HyperFlex virtual servers differ from regular servers in which two key areas? (Choose two.)

- A. NVMe: Regular servers do not support NVMe drives for high availability.
- B. No RAID is required to consolidate disks into a shared data platform.
- C. CVM: Virtual appliance, which performs reading/writing, caching, deduplication, and compression.
- D. SP: UCS Service Profiles are used to delineate MAC address pools from upstream networks.
- E. CCC: Cisco Cloud Center is used for multi-cloud integration and seamless deployment.

**Answer:** BC

**Explanation:**

HyperFlex virtual servers differ from **regular** servers in these key areas:

- **No RAID** is required to consolidate disks into a shared data platform.
- **CVM**: Virtual appliance, which performs reading/writing, caching, deduplication, and compression.
- **IOVISOR**: Hypervisor driver, which mounts HyperFlex storage and distributes data.
- **VAAI**: vSphere storage API allowing file-system-level snapshots and cloning.

#### NEW QUESTION 6

The process of optimizing information is tightly tied to the writing process as it is performed inline as the writing process is being performed The process of data optimization is performed with which two processes? (Choose two)

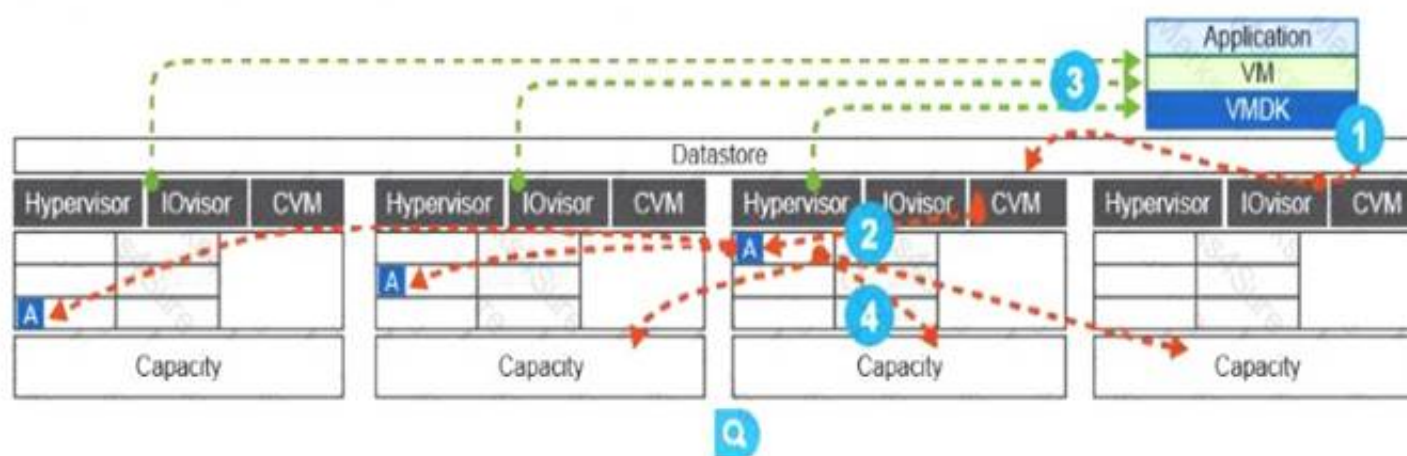
- A. The primary CVM compresses the data, writes it to its cache drive and mirrors it
- B. ACK is sent to the CVM that the write is about to be initiated
- C. On write, the local IOVisor sends the write to the primary CVM for that block
- D. On read/Writ
- E. the distributed VAAI sends the write to the primary CVM for that block
- F. The secondary CVM compresses the data, reads it from its cache drive and mirrors it

**Answer:** AC

**Explanation:**

#### Data Optimization Process and Actual Data Savings

The process of optimizing information is tightly tied to the writing process, as it is **performed** inline as the writing process is being **performed**. The system is designed so that the deduplication and compression are done only once by the primary CVM. The IOVisor determines which CVM is primary when the initiated write is intercepted, before it is forwarded to the chosen CVM.



The process of data optimization is **performed** in this sequence:

1. On write, the local IOVisor sends the write to the primary CVM for that block.
2. The primary CVM compresses the data, writes it to its cache drive and mirrors it.
3. ACK is sent to the virtual machine that the write has been successfully **performed**.
4. Once the write log is full, a destage is initiated, where the primary CVM performs a best effort deduplication and writes the information across nodes.

#### NEW QUESTION 7

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 8

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:**

### Network Adapters: Multi-NIC Support

Starting with HXDP v3.5.1, multiple NICs are supported per server:

- Increases resiliency and enables use cases such as offline streaming and backup.
- Primary, mLOM-placed NIC is still mandatory, other NICs fit into PCIe slots.
- Only supported on fresh installations; no upgrade of existing cluster with additional cards.

#### NEW QUESTION 9

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:**

The converged nodes can only be HyperFlex rack servers, but the Cisco HyperFlex system also supports expanding the existing data platform with additional compute resources, by integrating compute-only nodes, where M4 and M5 generations of Cisco UCS are supported.

#### NEW QUESTION 10

In all HX server types, where are capacity drives installed?

- A. side
- B. top
- C. back
- D. front

**Answer:** D

**Explanation:**

## Identifying Capacity Drives

In all server types, the capacity drives are installed on the **front**.

Capacity drives are installed in:

- All HX220c (hybrid/all-flash/all-NVMe):
  - **Front** slots 3-10.
  - First two slots used by housekeeping and cache drives.
- HX240c-M5SX (hybrid/all-flash):
  - **Front** slots 2-24.
  - First slot used by housekeeping drive.
- HX240c-M5L (hybrid only):
  - **Front** slots 1-12.

### NEW QUESTION 10

With which three components must every HyperFlex cluster be equipped with in regard to disks? (Choose three.)

- A. NVMe drives
- B. there are no specific requirements
- C. same type of cache drives
- D. same type and size of capacity of drives
- E. same number of capacity drives
- F. SAS drives

**Answer:** CDE

**Explanation:**

### Drive Selection Rules

Similar to the limitations about mixing different nodes in a cluster, you must follow these guidelines when selecting drives for each node within a cluster:

Every node in Cisco HyperFlex cluster must be equipped with:

- The same type and size of capacity drives:
  - **HDD:** 1.2, 1.8, 6, or 8 TB.
  - **SSD:** 960 GB or 3.8 TB.
  - **NVMe SSD:** 1 or 4 TB.
- The same number of capacity drives
  - 6–8 in HX220 (all types).
  - 6–23 in HX240c-M5SX.
  - 6–12 in HX240c-M5L.
- The same type of cache drive:
  - SAS SSD, NVMe SSD, or NVMe Optane SSD.
  - Size does not matter; the same amount of space is used no matter the disk size.

### NEW QUESTION 15

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 20**

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