

Exam Questions 800-150

Supporting Cisco Devices for Field Technicians

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NEW QUESTION 1

Which common CLI command is used to install Cisco NX-OS Software?

- A. copy tftp: running-config
- B. install all
- C. install kickstart
- D. boot system

Answer: B

NEW QUESTION 2

Which Layer 2 technology extends to access layer devices, allowing individual switch ports to be assigned for network and traffic management in an enterprise network?

- A. BGP
- B. VLANs
- C. OSPF
- D. MPLS

Answer: B

NEW QUESTION 3

Which cable type should be used when installing replacement hardware and connecting two devices of the same type, like two DTEs or two DCEs?

- A. USB Type A to Type B cable
- B. Rolled RJ-45 to RJ-45 console cable
- C. RJ-45 Ethernet straight-through patch cable
- D. RJ-45 Ethernet crossover patch cable

Answer: D

NEW QUESTION 4

Which protocol should be analyzed when troubleshooting call quality between IP phones?

- A. SIP
- B. SCCP
- C. H.323
- D. RTP

Answer: D

NEW QUESTION 5

Which command prompt commands provide the most thorough network diagnostic information when troubleshooting connectivity issues between a Windows PC and a Cisco device?

- A. ipconfig /all ping
- B. netstat -anetsh wlan show interfaces ipconfig /releaseipconfig /renew
- C. ping tracert netstat
- D. nslookup arp -a route print

Answer: A

NEW QUESTION 6

When should a crossover UTP cable be used instead of a straight-through cable when connecting network devices?

- A. To connect electrically like devices
- B. To connect a PC to a wireless access point
- C. To connect a switch to a router
- D. To connect electrically unlike devices

Answer: A

NEW QUESTION 7

Which command provides a concise look at important switch port characteristics, such as port ID, VLAN, duplex, speed, and media type?

- A. show cdp neighbors
- B. show interface status
- C. show controllers
- D. show ipinterface brief

Answer: B

NEW QUESTION 8

Which command is used to copy the startup configuration of a device to a USB file system when transferring files to a Cisco device?

- A. Router# copy startup-config tftp://[server_ip]/[destination_file]
- B. Router# copy usbflash0:[filename] startup-config
- C. Router# copy startup-config usbflash0:[filename]
- D. Router# copy running-config usbflash0:[filename]

Answer: C

Explanation:

To back up the startup configuration of a Cisco device to a USB drive, the command `copy startup-config usbflash0:[filename]` is used. This command copies the contents of the startup configuration file stored in NVRAM to a specified file on the USB flash drive. This is particularly useful for creating backups before performing upgrades or replacements.

➤ Option B: Attempts to copy from the USB drive to the startup configuration, which is the reverse of the desired operation.

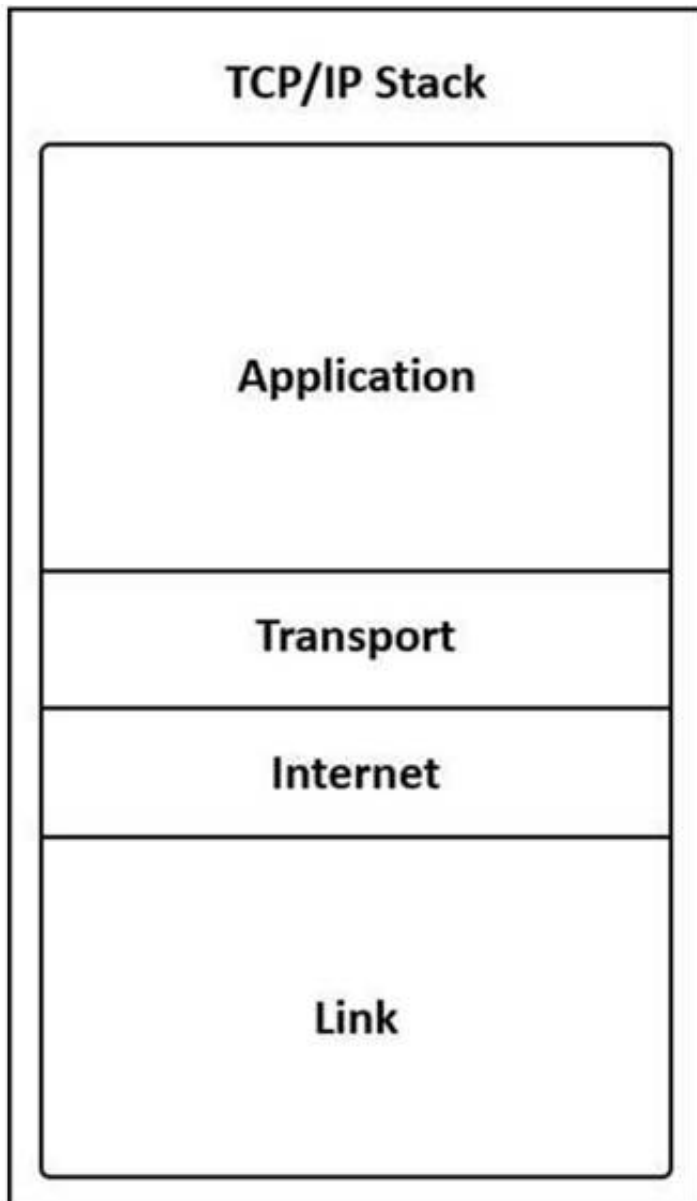
➤ Option D: Copies the running configuration, not the startup configuration, to the USB drive.

Reference: Supporting Cisco Devices for Field Technicians (FLDTEC) – Maintenance and RMA Procedures

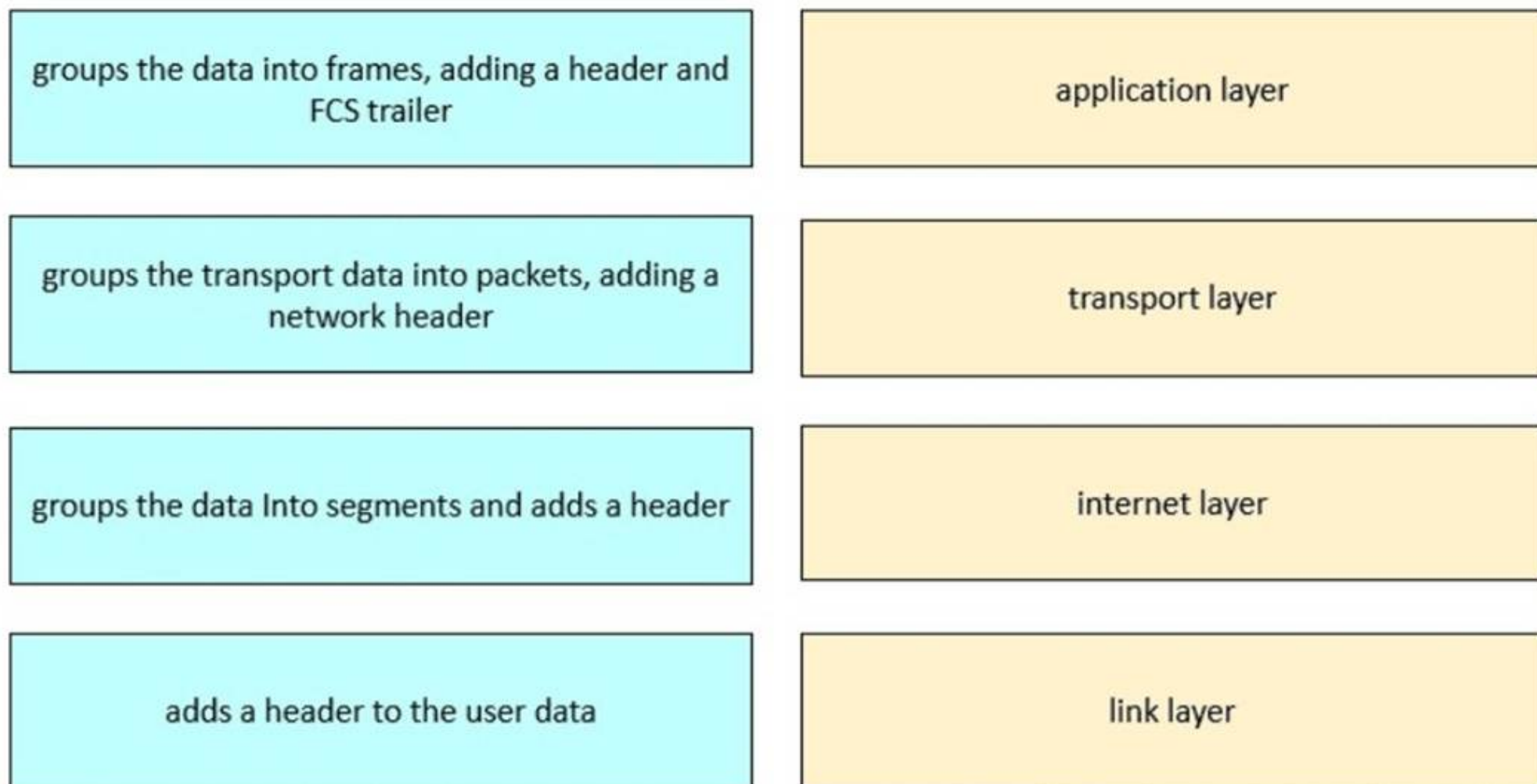
NEW QUESTION 9

DRAG DROP

Refer to the exhibit.



Drag and drop the steps in the TCP/IP encapsulation process from the left onto the corresponding layer on the right.



- A. Mastered
B. Not Mastered

Answer: A

Explanation:

The FLDTEC training describes the TCP/IP encapsulation as a step-by-step process where data is passed down through the layers of the TCP/IP model:

Application Layer: User data is created (email, file, request) and the application layer adds the application header, creating a data payload.

Transport Layer: The data is segmented. Each segment receives a transport-layer header (TCP/UDP), enabling proper sequencing and error handling at the destination.

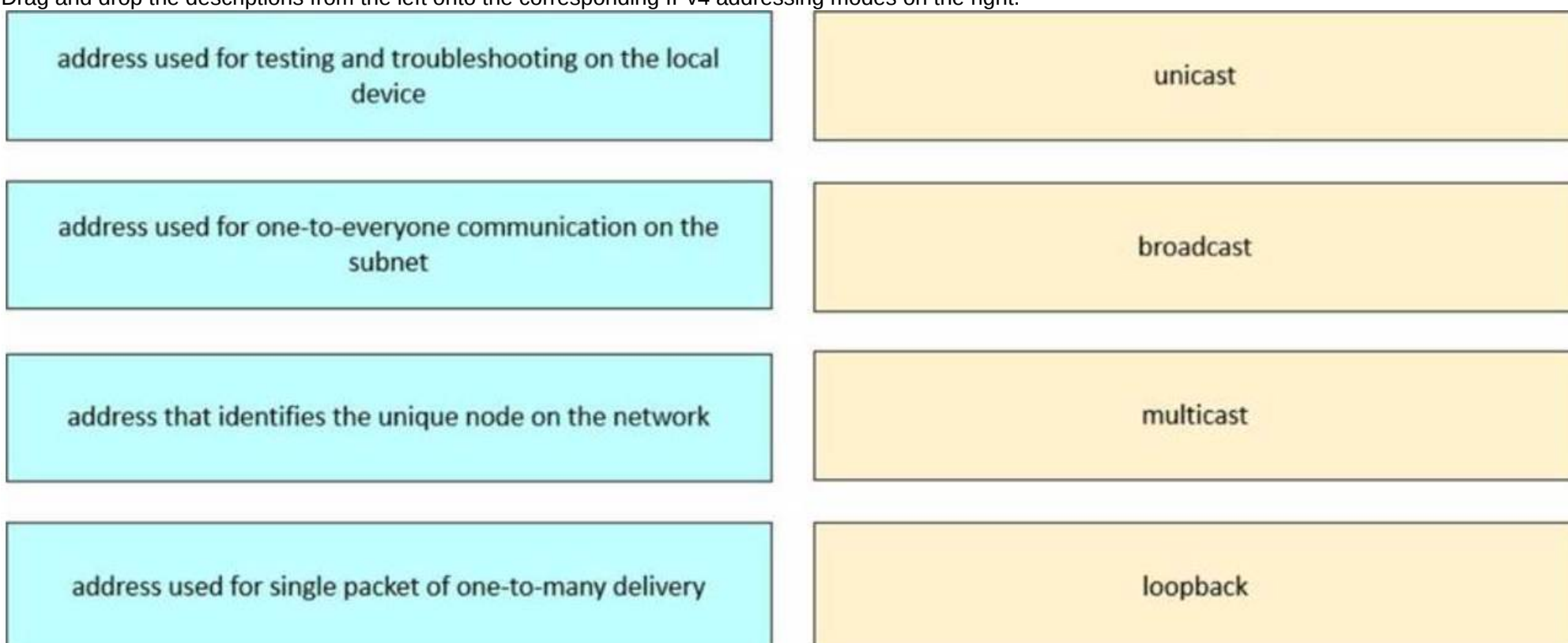
Internet Layer: Segments are encapsulated into packets (IP datagrams), with an IP header added to facilitate routing between networks.

Link Layer: Finally, packets are framed with Layer 2 headers and trailers (including the Frame Check Sequence for error detection), creating a frame ready to be transmitted on the physical medium. This layered encapsulation ensures interoperability and troubleshooting clarity, which is why it is emphasized in FLDTEC's IOS Software Basics module.

NEW QUESTION 10

DRAG DROP

Drag and drop the descriptions from the left onto the corresponding IPv4 addressing modes on the right.



- A. Mastered
B. Not Mastered

Answer: A

Explanation:

This content is aligned with IPv4 Addressing Fundamentals, detailed in the FLDTEC course under Device Configuration and Verification:

Unicast: A unicast address uniquely identifies a single host on a network. This is the most common address type used for standard communication between two devices.
Broadcast: Broadcast addresses (e.g., 255.255.255.255 or subnet-specific broadcast) send traffic to all hosts in the network segment. Used for ARP requests and DHCP discovery.
Multicast: Used to deliver a packet to a group of hosts interested in the data, without flooding the network like a broadcast. Multicast uses addresses from the range 224.0.0.0 to 239.255.255.255. Loopback: The loopback address (127.0.0.1) is reserved for local testing, ensuring that the TCP/IP stack is working properly without needing to access the network.

NEW QUESTION 10

A technician must quickly identify multiple Cisco switches in a rack without powering them on. Where should the technician look for serial numbers on the device?

- A. Bottom surface of each switch
- B. Front panel near the status LEDs
- C. Rear panel near the power supplies
- D. Top surface of each switch

Answer: C

NEW QUESTION 13

What happens to the switch operation when a supervisor module in a Cisco Nexus switch is replaced by two supervisor modules?

- A. The switch continues to operate without any interruption.
- B. All modules in the switch are reset due to a stateless switchover.
- C. Only the affected line cards reset.
- D. The switch shuts down completely.

Answer: B

NEW QUESTION 18

Which pod-based deployment model provides the most flexibility and scalability in a modern data center topology?

- A. Spine-and-Leaf
- B. End of Row (EoR)
- C. Top of Rack (ToR)
- D. Fabric Extender model

Answer: A

Explanation:

The Spine-and-Leaf architecture is the preferred pod-based deployment model in modern data centers because of its high scalability and flexibility. In this topology:



Leaf switches connect to servers and act as the access layer.



Spine switches function as the core layer, interconnecting all leaf switches.

This non-blocking, highly redundant model supports predictable latency, easy horizontal scaling, and load balancing, making it ideal for cloud-scale and virtualized environments.



Top of Rack (ToR) and End of Row (EoR) are physical cabling layouts that do not inherently provide the same level of architectural scalability.



Fabric Extender models extend switch ports but depend on upstream switches for intelligence, limiting flexibility.

Reference: Supporting Cisco Devices for Field Technicians (FLDTEC) – Cisco Equipment and Related Hardware

NEW QUESTION 22

What is the primary advantage of installing and deploying Cisco UCS E-Series servers in branch office routers?

- A. To serve as a backup storage system for the main data center
- B. To enhance the wireless capabilities of the router
- C. To provide local compute power for edge applications
- D. To increase the packet forwarding capacity of the router

Answer: C

NEW QUESTION 25

Which step must be performed immediately after powering off the device when replacing a Cisco chassis?

- A. Remove the chassis ground.
- B. Back up the device configuration.
- C. Remove the chassis.
- D. Label and remove all I/O cables.

Answer: D

NEW QUESTION 27

Which command is used to determine if there is sufficient space in the memory of a device before installing a new Cisco IOS image?

- A. show file-system
- B. show storage
- C. show memory
- D. show flash:

Answer: D

NEW QUESTION 31

DRAG DROP

Drag and drop the functions from the left onto the corresponding Cisco data center technologies on the right.

integrates multiple network layers into a single infrastructure	Unified Fabric
provides link aggregation and redundancy between switches	Fibre Channel over Ethernet (FCoE)
enables software-defined networking in data centers	virtual port channels (vPCs)
combines storage and network traffic on a single network	Application Centric Infrastructure (ACI)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

integrates multiple network layers into a single infrastructure	integrates multiple network layers into a single infrastructure
provides link aggregation and redundancy between switches	combines storage and network traffic on a single network
enables software-defined networking in data centers	provides link aggregation and redundancy between switches
combines storage and network traffic on a single network	enables software-defined networking in data centers

NEW QUESTION 33

DRAG DROP

Drag and drop the Cisco collaboration components from the left onto the corresponding descriptions on the right.

MISSING

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

These components are part of the Cisco Collaboration System Architecture (CSA), and are reviewed in the FLDTec training under Cisco Equipment and Collaboration Basics:

Call Control: Managed by services like Cisco Unified Communications Manager (CUCM), it routes and connects calls.

Collaboration Applications: Provide added value services such as voicemail (Unity), messaging (IM&P), presence, and more.

Edge Devices: Include Cisco Expressway and CUBE (Cisco Unified Border Element), offering secure access and traversal for mobile/remote endpoints.

Conferencing: Powered by platforms like Cisco Meeting Server or Webex, enabling multi-party conferencing.

Endpoints: Include both hardware (IP phones, video units) and software (Webex app) that users interact with directly.

NEW QUESTION 34

What is a feature of Cisco Meraki switches that simplifies the replacement process?

- A. Built-in configuration wizard
- B. Automatic hardware detection
- C. Offline configuration backup
- D. Cloud-based management

Answer: D

NEW QUESTION 39

DRAG DROP

Drag and drop the steps of the boot sequence process of a Cisco device into order on the right.

finds and loads the Cisco IOS software	step 1
runs the configures Cisco IOS software	step 2
loads and runs bootstrap code (firmware)	step 3
performs power on self-test (POST)	step 4
finds and loads the configuration	step 5

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1 ?? Performs power-on self-test (POST)

Step 2 ?? Loads and runs bootstrap code (firmware)

Step 3 ?? Finds and loads the Cisco IOS software

Step 4 ?? Finds and loads the configuration
Step 5 ?? Runs the configured Cisco IOS software
This startup process is thoroughly described in the FLDTEC course and aligns with Cisco's standard IOS boot process:
POST (Power-On Self-Test): Verifies hardware functionality including memory and interfaces. This occurs immediately upon powering the device.
Bootstrap Code Execution: Bootstrap is a small program in ROM that initiates the boot process.
Cisco IOS Loading: Bootstrap locates and loads the IOS from flash memory or another source (e.g., TFTP).
Configuration Loading: The router then loads the startup-config from NVRAM (if available).
IOS Execution: Once the configuration is loaded, the device enters operational mode and executes the IOS with the loaded config.
This sequence is vital for field technicians to understand for troubleshooting boot failures or performing device recoveries.

NEW QUESTION 41

What is the primary purpose of changing the configuration register when performing password recovery?

- A. To erase the entire configuration
- B. To ignore the startup configuration
- C. To unlock all user accounts
- D. To enable advanced debugging features

Answer: B

NEW QUESTION 44

DRAG DROP

 Cisco Room Navigator	 Cisco Board Pro
 Cisco Quad Camera	 Cisco PTZ 4K Camera

Refer to the exhibit. Drag and drop the functions from the left onto the corresponding devices on the right.

provides 4K resolution and zoom capabilities	Cisco Room Navigator
supports video conferencing and content sharing	Cisco PTZ 4K Camera
creates panoramic views of meeting participants	Cisco Quad Camera
controls room environment and scheduling	Cisco Webex Board Pro

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

According to the Cisco FLDTEC training and product documentation:

- Cisco PTZ 4K Camera: Offers high-definition video capture with pan-tilt-zoom features and 4K resolution — ideal for large conference spaces.
- Cisco Webex Board Pro: Interactive collaboration device that combines video conferencing, whiteboarding, and wireless content sharing.
- Cisco Quad Camera: Features multiple cameras for wide-angle views, speaker tracking, and automatic framing — great for medium to large meeting rooms.
- Cisco Room Navigator: A touchscreen device that provides intuitive control for room settings, scheduling, and call management.

NEW QUESTION 49

DRAG DROP

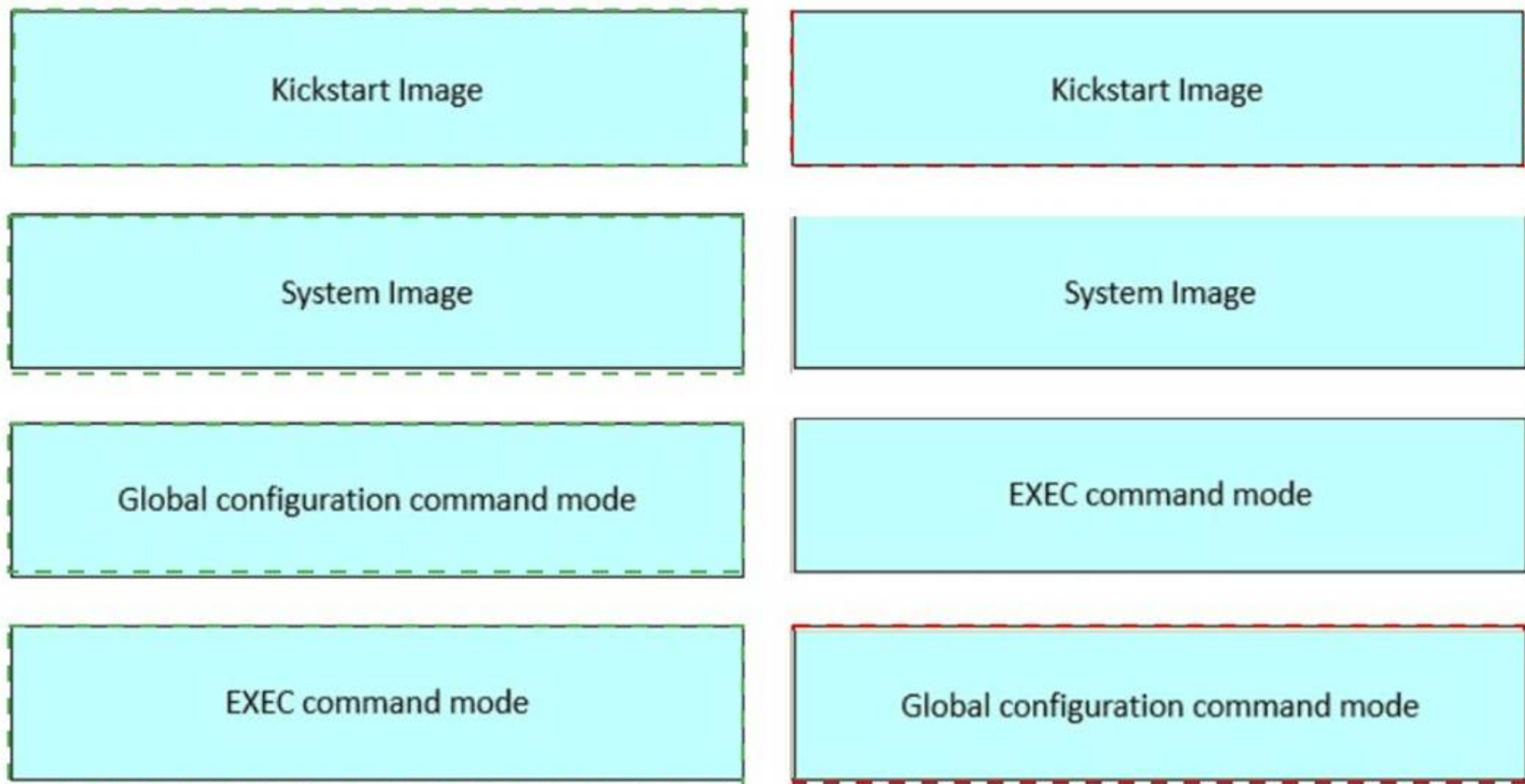
Drag and drop the Cisco NX-OS components from the left onto the corresponding descriptions on the right.

Kickstart Image	specialized bootloader that initializes the hardware
System Image	contains the full NX-OS kernel and operating system
Global configuration command mode	allows for displaying device status and configuration information
EXEC command mode	provides access to the broadest range of commands that affect the device as a whole

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 52

Which two results are achieved by briefly pressing the restore/reset button on a Cisco Meraki switch? (Choose two.)

- A. The device reboots.
- B. A full factory restore is performed.
- C. Cloud management is disabled.
- D. The management interface is cleared.
- E. The downloaded configuration is deleted.

Answer: AD

NEW QUESTION 56

DRAG DROP

Drag and drop the steps from the left into order to capture the status of a Cisco device.

Access the CLI.	step 1
Create a file to capture router status text.	step 2
Connect to the console port.	step 3
Check the router status.	step 4
Save the output file.	step 5

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Access the CLI.	Connect to the console port.
Create a file to capture router status text.	Access the CLI.
Connect to the console port.	Create a file to capture router status text.
Check the router status.	Check the router status.
Save the output file.	Save the output file.

NEW QUESTION 61

DRAG DROP

Drag and drop the characteristics from the left onto the corresponding categories of MDS switch on the right.

scalable and expandable design

suitable for small deployments

enterprise-class performance

high port densities

fixed number of ports

ideal for Edge SAN deployments

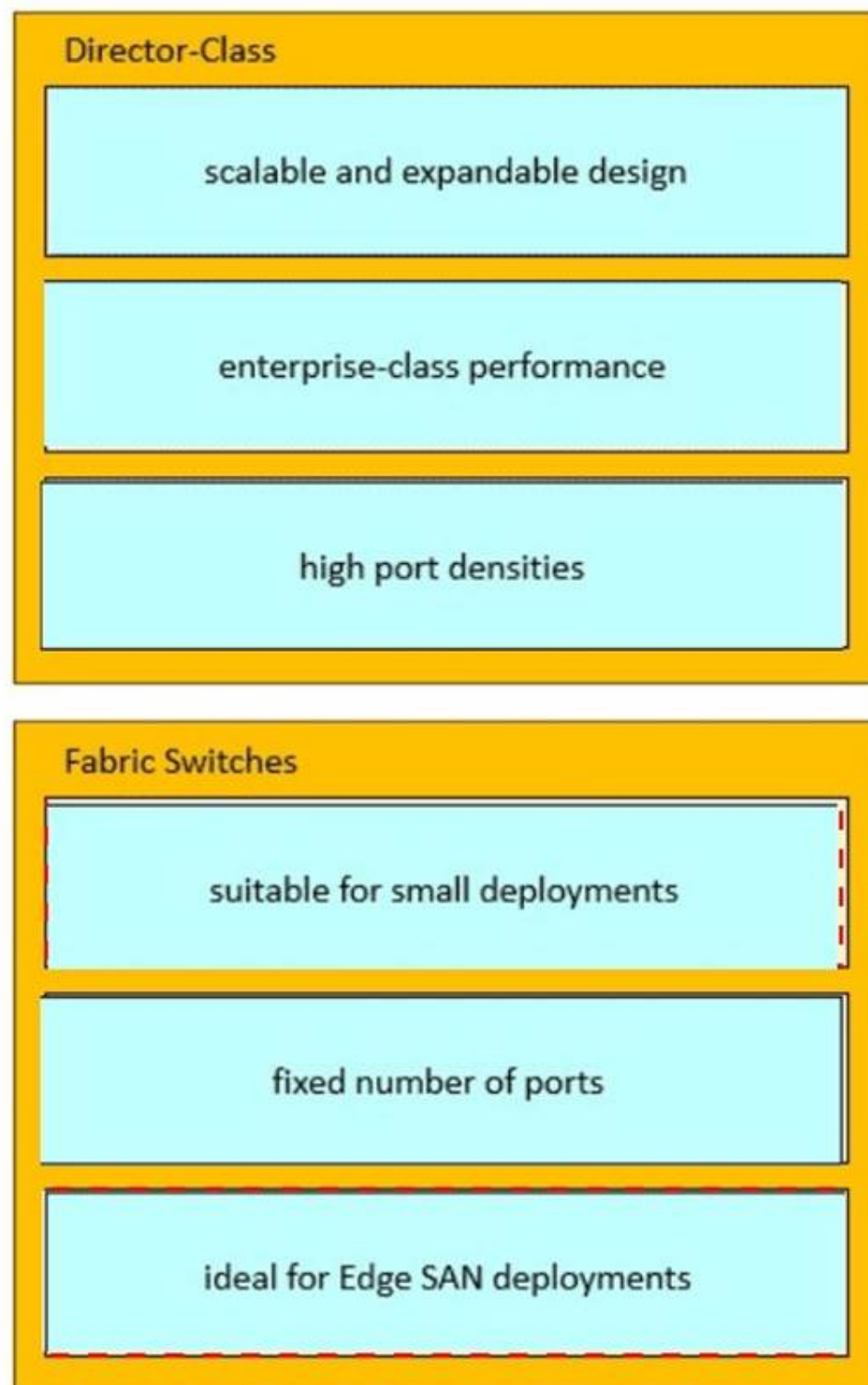
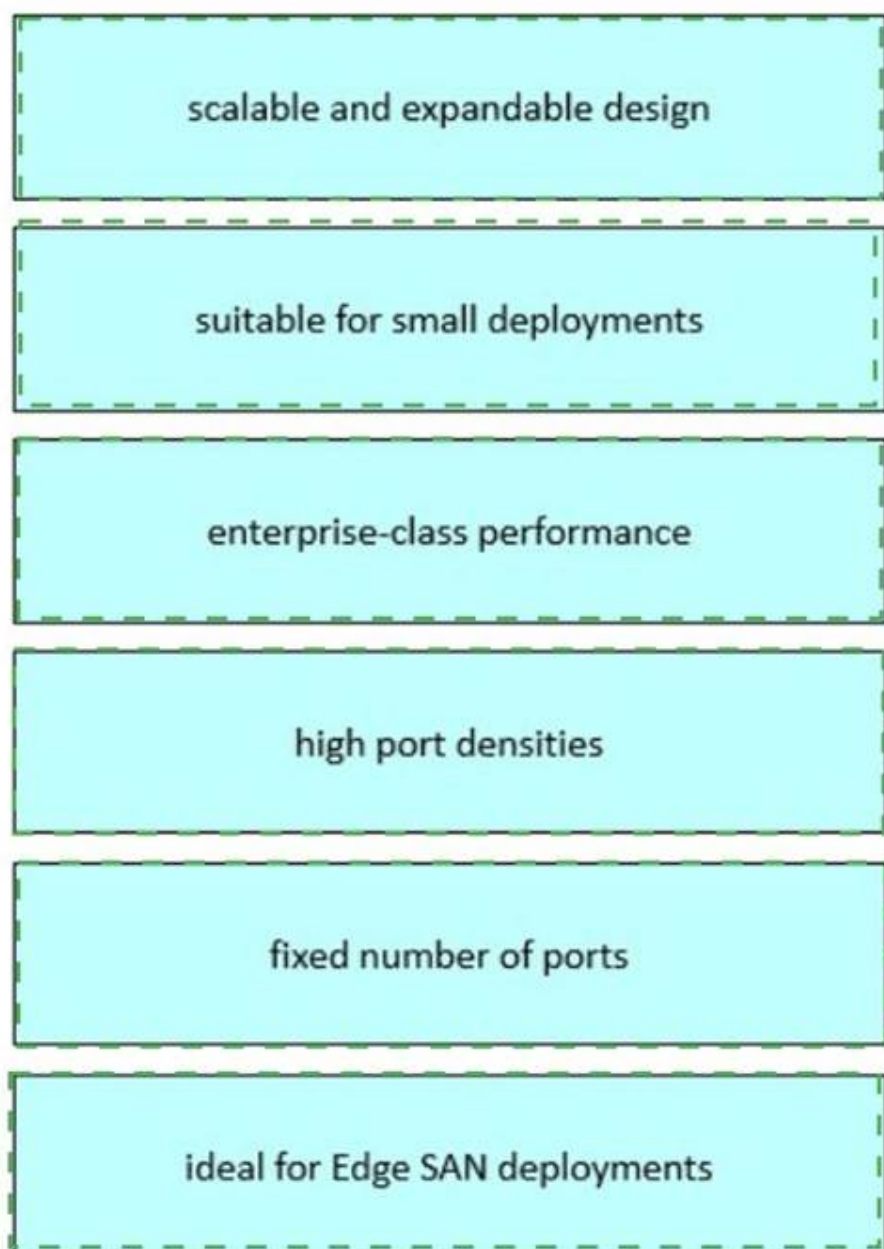
Director-Class

Fabric Switches

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 65

Which two configuration parameters are most critical to ensure optimal performance when configuring a network port for a newly installed IP phone in an enterprise environment? (Choose two.)

- A. VLAN assignment
- B. Link aggregation
- C. Spanning Tree Protocol
- D. Power over Ethernet
- E. QoS classification

Answer: AD

NEW QUESTION 66

What is the primary advantage of the Cisco Intersight cloud-based approach compared to traditional on-premises management tools?

- A. It requires less local storage
- B. It offers better integration with non-Cisco products
- C. It allows management from anywhere without on-premises software
- D. It provides faster hardware upgrades

Answer: C

NEW QUESTION 68

Which two features are managed by the hardware and software of the collaboration infrastructure? (Choose two.)

- A. Network bandwidth allocation
- B. Hosting large-scale databases
- C. Facilitating connections
- D. Phone book administration
- E. Supporting meeting experiences

Answer: CE

Explanation:

The Cisco Collaboration Infrastructure is designed to support unified communications, video conferencing, and team collaboration through an integrated architecture involving both hardware (e.g., endpoints, media servers) and software (e.g., CUCM, Webex apps).

According to the FLDTEC course content under Cisco Collaboration Equipment and Infrastructure: Facilitating Connections (C):

Cisco infrastructure components such as CUCM, Expressway, and Cisco Meeting Server enable real-time connections between users across voice, video, and messaging systems.

Supporting Meeting Experiences (E):

Devices such as Webex Boards, Room Kits, and Cisco Quad Cameras, in combination with platforms like Webex, provide immersive and seamless meeting experiences, supported by the infrastructure.

Incorrect Options:

* A. Network bandwidth allocation: Typically managed by network QoS policies and WAN optimizations, not the collaboration infrastructure directly.

* B. Hosting large-scale databases: Not a function of Cisco's collaboration system — this falls under data center or database server roles.

* D. Phone book administration: Often a function within directory services or external LDAP integration, not a core collaboration infrastructure task.

NEW QUESTION 72

What is the purpose of the chassis in a blade server environment?

- A. To provide additional processing power
- B. To act as a storage array for the servers
- C. To replace the need for network switches
- D. To house multiple servers

Answer: D

NEW QUESTION 73

DRAG DROP

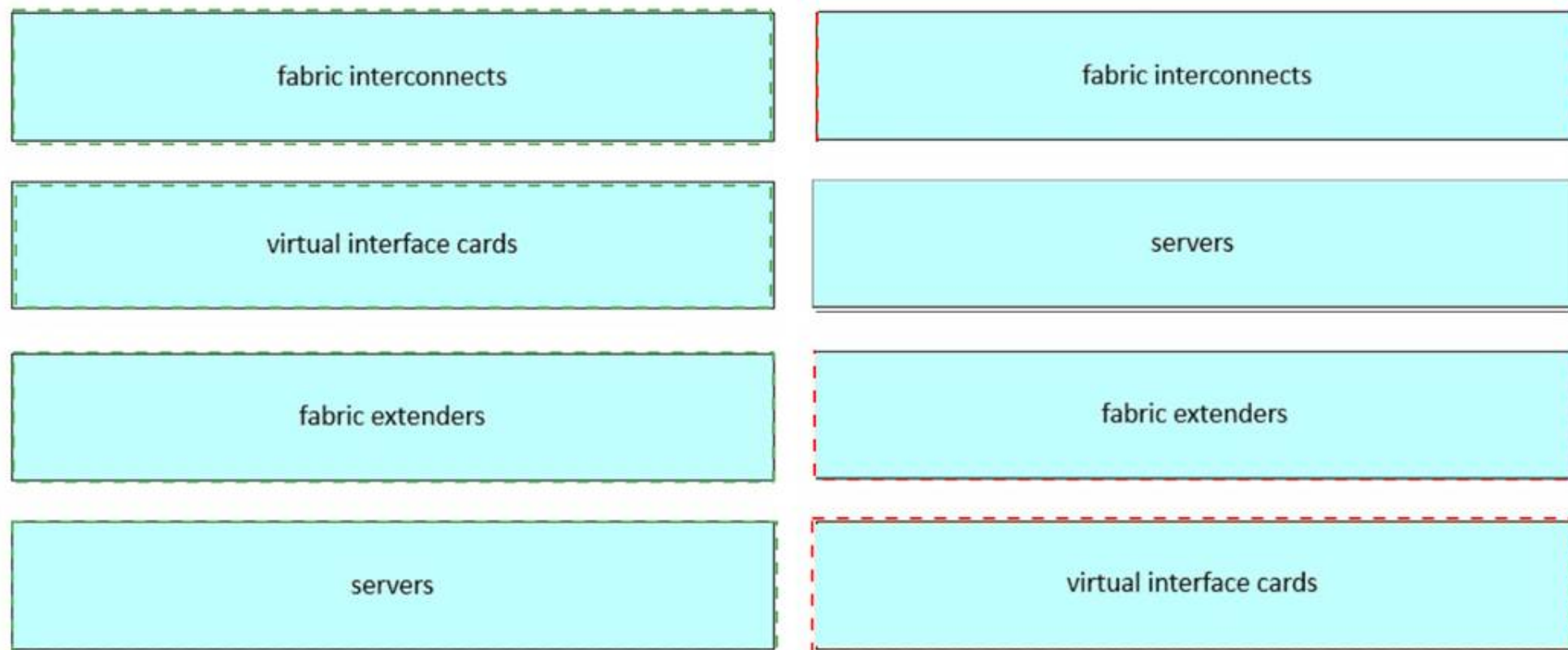
Drag and drop the Cisco UCS components from the left onto the corresponding functionalities on the right.

fabric interconnects	primary point of connectivity for all attached devices
virtual interface cards	installed in a chassis and provide compute power
fabric extenders	maintain connectivity by extending ports
servers	network adapters that allow network interface virtualization

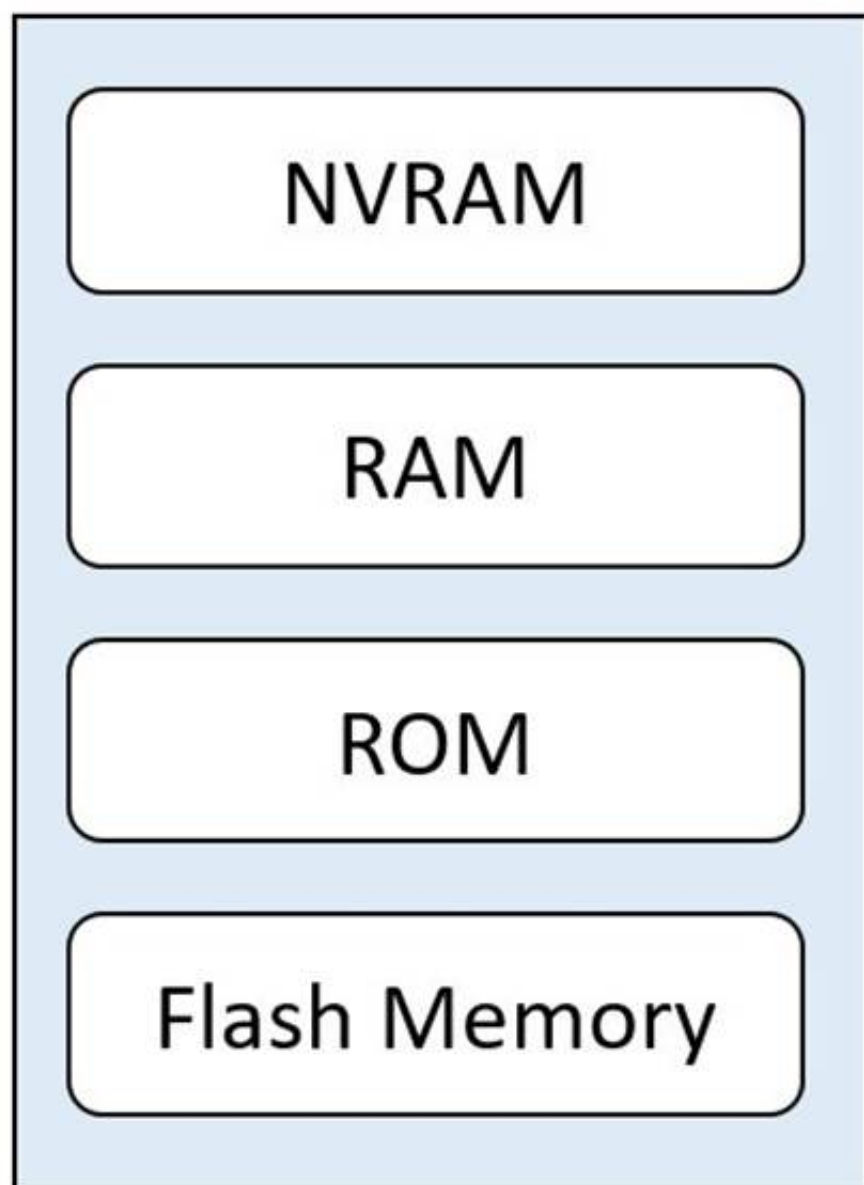
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 77
DRAG DROP



Refer to the exhibit. Drag and drop the functions from the left onto the corresponding internal memory components on the right.

bootstrap code, post code, ROM monitor	NVRAM
startup configuration	RAM
running configuration	ROM
Cisco IOS software, backup configuration	flash memory

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

NVRAM ?? Startup configuration

RAM ?? Running configuration

ROM ?? Bootstrap code, POST code, ROM monitor

Flash memory ?? Cisco IOS software, backup configuration

Each memory type in a Cisco device serves a specific function in the boot process and runtime operation. NVRAM retains configuration across reboots, RAM is volatile and holds active configs, ROM handles initial boot tasks, and flash stores the operating system.

This content is covered thoroughly in "Cisco Equipment and Related Hardware" in the FLDTEC curriculum. Here's the breakdown:

ROM (Read-Only Memory)

Stores bootstrap code, POST (Power-On Self-Test), and ROM Monitor.

These are essential for the device's initial power-on operations and recovery modes.

NVRAM (Non-Volatile RAM)

Holds the startup configuration file, which is loaded during the boot process.

Content remains intact after a reboot or power cycle.

RAM (Random Access Memory)

Stores the running configuration and current operational state of the router or switch.

Also used for routing tables, ARP cache, and packet buffers.

Data is lost when the device is powered off or rebooted.

Flash Memory

Contains the Cisco IOS image, system files, and can store backup configurations.

It is a non-volatile storage, so it retains data after reboots.

NEW QUESTION 79

DRAG DROP

Drag and drop the actions that must be taken after installing an E-Series server from the left into order on the right.

MISSING

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

In theFLDTEC course, underMaintenance and RMA Procedures, Cisco outlines a specific sequence for bringing up anE-Series server modulein an ISR router. The sequenceensures proper recognition, IOS compatibility, and network readiness:

Power up the router and server: Ensures both components are initialized and POST begins.

Verify that the router recognized the server: Use service-module commands or show platform to confirm server visibility.

Load a compatible Cisco IOS image onto the ISR: The IOS must support the E-Series module to provide integration and configuration functionality.

Connect the server to the network: Establish network connectivity for services, remote access, or deployment.

This structured approach is essential for minimizing errors duringmodular hardware upgrades or RMAsin the field.

NEW QUESTION 84

Which two settings are standard Cisco console connections when configuring a terminal emulator to connect to the console port of a Cisco switch? (Choose two.)

- A. Stop bits: 2
B. Flow control: Hardware

- C. Speed (baud rate): 9600
- D. Data bits: 8
- E. Parity: Even

Answer: CD

NEW QUESTION 85

Which two network design strategies in Cisco data center solutions improve fault tolerance and high availability? (Choose two.)

- A. SAN extension over IP networks (FCIP)
- B. Redundant supervisor engines and fabric modules
- C. High-density 10/40/100 gigabit Ethernet connectivity
- D. Virtual port channels for link aggregation
- E. Access layer switch deployment

Answer: BD

NEW QUESTION 89

Which deployment scenarios are Cisco 8000 Series routers primarily designed for?

- A. remote branch offices and retail locations
- B. service provider and web-scale networks
- C. small business and home office networks
- D. campus LAN access and distribution layers

Answer: B

NEW QUESTION 91

DRAG DROP

Drag and drop the virtualized data center components from the left onto the corresponding descriptions on the right.

virtual switch	emulation of a computer system that operates like it has its own physical hardware
Type 1 hypervisor	emulates a Layer 2 switch and provides network connectivity for all VMs or a host machine
virtual machine (VM)	runs directly on the physical server hardware, often used in large-scale deployments
Type 2 hypervisor	runs as a software layer on a host operating system, typically used for development and testing

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

In theFLDTEC curriculum, Cisco emphasizes understanding of virtualized components in enterprise networks and UCS environments:

Virtual Switch– Operates within a hypervisor, replicates L2 behavior for inter-VM and external connectivity.

Type 1 Hypervisor– Also called ??bare-metal,?? examples include VMware ESXi and Microsoft Hyper-V Core; optimized for data center performance.

Virtual Machine (VM)– A logical instance of a system that runs its own OS and apps, powered by virtualized CPU, RAM, and storage.

Type 2 Hypervisor– Runs atop an existing OS (e.g., VMware Workstation, VirtualBox), ideal for labs and dev/testing.

NEW QUESTION 92

Which operating system powers the Cisco Nexus series of switches and is optimized formodern data center deployments?

- A. IOS
- B. IOS XE
- C. IOS XR
- D. NX-OS

Answer: D

NEW QUESTION 93

What is the purpose of a subnet mask?

- A. Distinguishes the network and host segments
- B. Provides encryption for network traffic
- C. Determines the next-hop router
- D. Aids in route prioritization

Answer: A

Explanation:

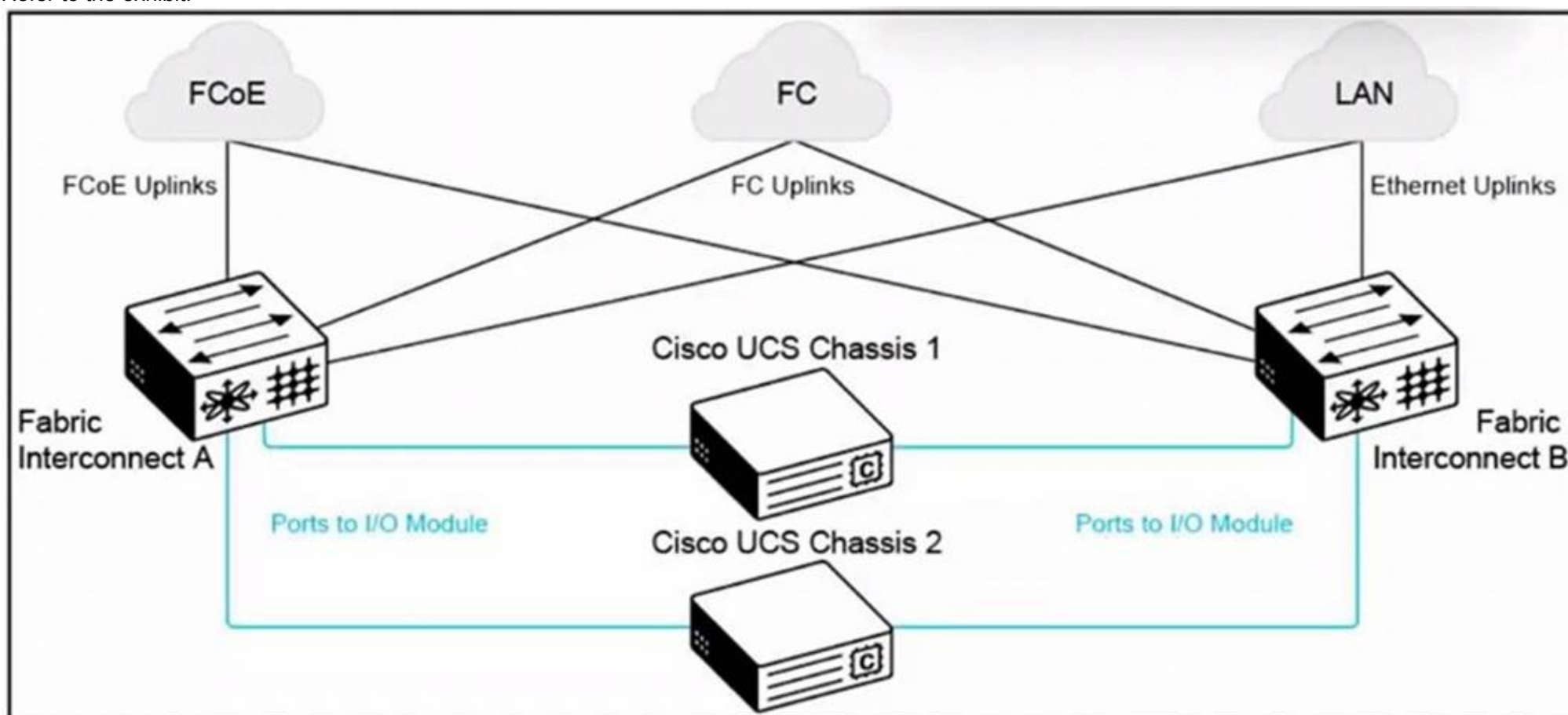
A subnet mask is a 32-bit number used in IP networking to divide an IP address into network and host portions. This division is crucial for routing traffic within and between networks. The subnet mask works in tandem with the IP address to identify which part of the address refers to the network and which part refers to the host. This distinction allows for efficient IP address allocation and routing.

For example, in the IP address 192.168.1.10 with a subnet mask of 255.255.255.0, the first three octets (192.168.1) represent the network portion, while the last octet (10) identifies the specific host within that network.

Reference: Supporting Cisco Devices for Field Technicians (FLDTEC) – Cisco IOS Software Basics

NEW QUESTION 94

Refer to the exhibit.



What is the redundancy implementation in this Cisco UCS architecture?

- A. Redundancy is achieved through dual fabric interconnects, providing separate paths for FCoE, FC, and LAN traffic.
- B. Redundancy is limited to the uplink connections, with no failover capabilities between the fabric interconnects.
- C. The system uses a single point of connectivity, relying on internal redundancy within each UCS chassis.
- D. Redundancy is implemented at the chassis level only, with chassis 1 acting as a backup for chassis 2.

Answer: A

NEW QUESTION 97

DRAG DROP

Drag and drop the Cisco collaboration endpoints from the left onto the corresponding descriptions on the right.

Cisco Room Kit	all-in-one devices for personal workspaces and meeting rooms
Cisco Desk Series	interactive touchscreen displays supporting video conferencing
Quad Camera	standalone modular video conferencing systems
Room Navigator	multi-angle video capture for immersive experiences
Cisco Board	touch panel for room controls and scheduling

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Cisco Room Kit	Cisco Room Kit
Cisco Desk Series	Cisco Board
Quad Camera	Cisco Desk Series
Room Navigator	Quad Camera
Cisco Board	Room Navigator

NEW QUESTION 101

Which two cloud computing services are vendor-managed in an Infrastructure as a Service (IaaS) delivery model? (Choose two.)

- A. Applications
- B. Networking
- C. Storage
- D. Data
- E. Operating System

Answer: BC

NEW QUESTION 103

What must be verified before installing or replacing DIMMs in a Cisco UCS server?

- A. Compatibility of the DIMM with the current firmware version of the server
- B. Current DIMM configuration and population order
- C. Exact type, speed, and capacity of the DIMM
- D. Maximum supported DIMM capacity for the server model

Answer: B

NEW QUESTION 104

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