

Cisco

Exam Questions 800-150

Supporting Cisco Devices for Field Technicians



NEW QUESTION 1

Why is it important to verify the update status after the initial upgrade process when upgrading firmware on a Cisco UCS C-Series server using the Host UpgradeUtility?

- A. To generate a report for compliance documentation
- B. To confirm that all intended components were successfully updated
- C. To ensure compatibility with third-party applications
- D. To activate the new licenses associated with the firmware

Answer: B

NEW QUESTION 2

How many bits are borrowed from the default host portion of the address to create subnets in a Class B network with a subnet mask 255.255.255.0?

- A. 3 bits
- B. 5 bits
- C. 3 bits
- D. 8 bits

Answer: D

NEW QUESTION 3

What is the purpose of the packages.conf file in Install mode on Cisco IOS XE Software supported switches?

- A. It is used to extract the bin file during the installation process.
- B. It determines which software packages need to be loaded and in what order during boot up.
- C. It contains the entire bundled software image in a single file.
- D. It is a subdirectory in flash memory where individual software packages are stored.

Answer: B

NEW QUESTION 4

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 5

Which action must be taken before powering down the endpoint during thereplacement process of a Cisco collaboration device?

- A. Reset the device to factory settings.
- B. Back up the configuration.
- C. Activate the new device.
- D. Install the new hardware.

Answer: B

NEW QUESTION 6

Which deployment model minimizes dependence on internet connectivity for core collaboration functions?

- A. Cloud-based deployment
- B. On-premises deployment
- C. Software-as-a-Service model
- D. Hosted Collaboration Solution

Answer: B

NEW QUESTION 7

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 8

What is the function of an access layer device?

- A. Provides high-speed data transport between buildings or different parts of the campus
- B. Serves as the entry point for end-user devices to connect to the network
- C. Provides secure external access to internal network components
- D. Connects remote offices to the main corporate network

Answer: B

NEW QUESTION 9

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 10

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 10

Why is the midplane-free design of the X9508 Modular Chassis significant in the context of Cisco UCS X-Series compute node replacement?

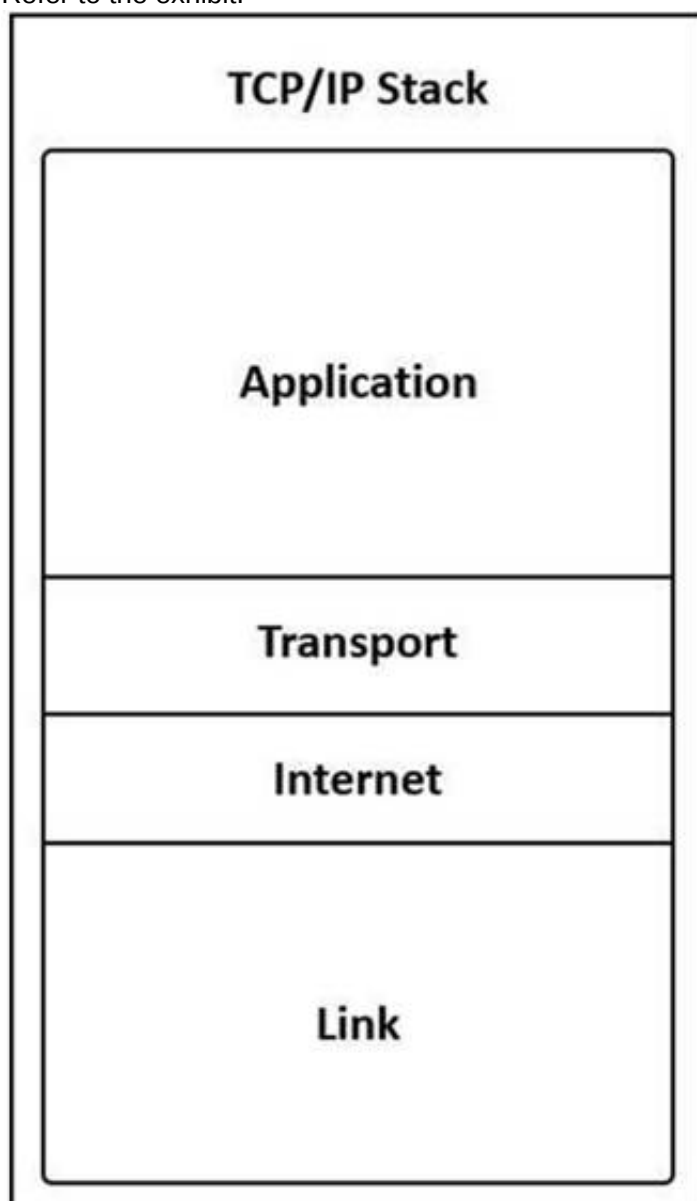
- A. It enables hot-swapping of compute nodes without powering down the chassis.
- B. It enables direct front-to-rear airflow, improving cooling efficiency during node replacement.
- C. It allows for easier future upgrades to faster connectivity standards.
- D. It reduces the overall power consumption of the chassis.

Answer: B

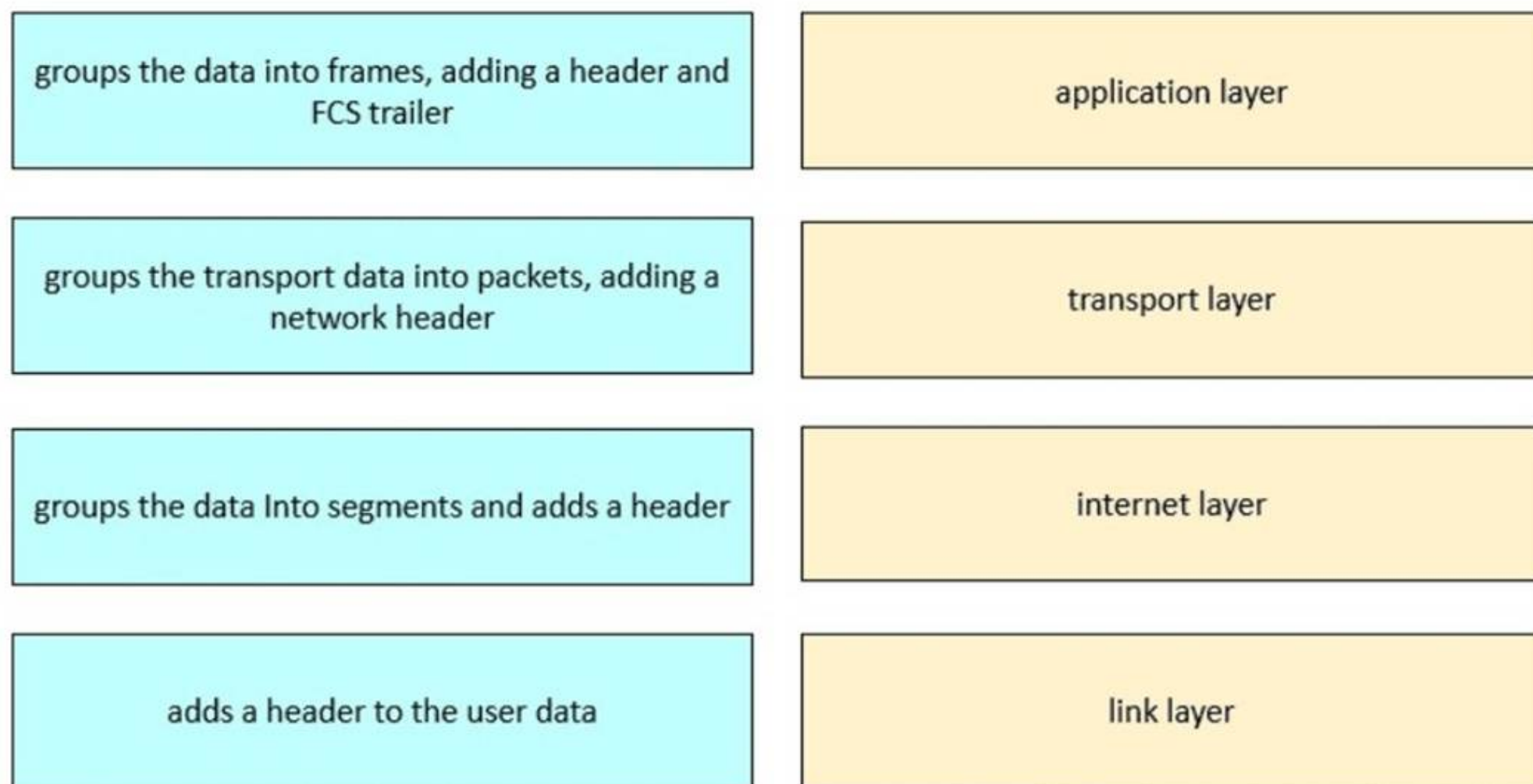
NEW QUESTION 11

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 15

What must be considered when installing a new fan module in a fixed-configuration Cisco Nexus switch?

- A. The size of the fan module must match the power supply.
 B. Fan modules can be installed only when the switch is powered off
 C. The airflow direction must be consistent with other installed modules.
 D. The fan module must be from the same manufacturing batch as the others.

Answer: C

NEW QUESTION 16

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 17

Which component serves as the central management and communication core and provides a single point of management via Cisco UCS Manager in a Cisco UCS environment?

- A. Nexus 9000 Series Switch
- B. UCS E-Series server in ISR platforms
- C. MDS 9000 Series SAN Switch
- D. UCS Fabric Interconnect

Answer: D

NEW QUESTION 18

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 20

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 25

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 26

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 27

Which layer of the OSI model provides error detection and defines how access to the media is controlled?

- A. Presentation layer
- B. Physical layer
- C. Network layer
- D. Data link layer

Answer: D

NEW QUESTION 30

What is the main advantage of using Bundle mode when installing Cisco IOS XE Software on a switch?

- A. Automatic creation of the packages.conf file
- B. Simplicity, with no need to manage individual packages
- C. Faster boot times compared to Install mode
- D. Ability to install and upgrade packages independently

Answer: B

NEW QUESTION 31

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:

Kickstart Image

Kickstart Image

System Image

System Image

Global configuration command mode

EXEC command mode

EXEC command mode

Global configuration command mode

NEW QUESTION 33

Which step must be performed immediately after disconnecting the network cable when replacing an SFP transceiver module?

- A. Observe the port status LED.
- B. Disconnect the SFP latch.
- C. Reinstall dust plugs in the optical bores.
- D. Install the replacement SFP module.

Answer: C

NEW QUESTION 35

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 38

Which term describes the physical range of radio frequency coverage provided by an access point in a wireless topology?

- A. Service Set Identifier (SSID)
- B. Basic Service Area (BSA)
- C. Wireless LAN (WLAN)
- D. Wireless LAN Controller (WLC)

Answer: B

NEW QUESTION 40

Which two actions are typically performed in ROMMON mode during the password recovery process? (Choose two.)

- A. Change the configuration register.
- B. Load the startup configuration.
- C. Save the configuration.
- D. Modify passwords.
- E. Reboot the device.

Answer: AE

NEW QUESTION 42

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 45

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:

fabric interconnects	fabric interconnects
virtual interface cards	servers
fabric extenders	fabric extenders
servers	virtual interface cards

NEW QUESTION 46

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 50

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 55

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 57

What is the purpose of a subnet mask?

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

Answer: A

Explanation:

Asubnet maskis 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 62

DRAG DROP

Drag and drop the TFTP statements from the left onto the corresponding categories on the right.

lack of security features and user authentication

simple setup and operation

transferring small files without security concerns

not suitable for transferring large files

Advantages of TFTP

Disadvantages of TFTP

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

The FLDTEC course teaches that TFTP is a lightweight file transfer protocol often used in Cisco devices for transferring configuration files or IOS images, especially in environments where simplicity is more critical than security:

Advantages:

It has a lightweight footprint, making it easy to use and configure.

Useful for transferring small files such as backup configs or small IOS images.

Disadvantages:

Lacks encryption and does not support authentication, making it insecure for sensitive or production environments.

Not efficient for large file transfers due to its limited feature set and reliance on UDP (User Datagram Protocol).

This makes TFTP a good fit for trusted internal networks where simplicity is preferred over robust security.

NEW QUESTION 65

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 68

What are two indicators that a network interface card must be replaced? (Choose two.)

- A. Connectivity problems
- B. Inability to save configurations
- C. Boot failures
- D. Consistent link down status
- E. Frequent system crashes

Answer: AD

NEW QUESTION 71

Which type of license is locally managed and does not require external tools for management?

- A. Hybrid licenses
- B. PAK licenses
- C. RTU licenses

D. Smart licenses

Answer: C

NEW QUESTION 73

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