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ProExam Simulator 2018 - 200-125: CCNA Cisco Certified Network Associate - 6.7.1825.1301

Question 1 (of 605) Time remaining: 01:59:01

Refer to the diagram. All hosts have connectivity with one another. Which statements describe the addressing scheme that is in use in the network? (Choose three.)

**Host A** VLAN 1 84 hosts 172.16.1.126  
**Host B** VLAN 2 114 hosts 172.16.1.126

- A. The subnet mask in use is 255.255.255.192.
- B. The subnet mask in use is 255.255.255.128.
- C. The IP address 172.16.1.25 can be assigned to hosts in VLAN1.
- D. The IP address 172.16.1.205 can be assigned to hosts in VLAN1.
- E. The LAN interface of the router is configured with one IP address.
- F. The LAN interface of the router is configured with multiple IP addresses.

Correct answer: B, C, F

The subnet mask in use is 255.255.255.128: This is subnet mask will support up to 126 hosts, which is needed.  
 The IP address 172.16.1.25 can be assigned to hosts in VLAN1: The usable host range in this subnet is 172.16.1.1-172.16.1.126  
 The LAN interface of the router is configured with multiple IP addresses: This router will need 1 configuration for the LAN interface.

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## Cisco 800-150 Exam Syllabus Topics:

| Topic   | Details   |
|---------|---|
| Topic 1 | <ul style="list-style-type: none"> <li><b>Cisco Infrastructure and Collaboration Infrastructure:</b> This section of the exam measures the skills of a Collaboration Engineer and focuses on Cisco infrastructure devices, endpoints, and collaboration technologies. It introduces network devices, collaboration endpoints like IP phones and video systems, and explains on-premises collaboration deployments using tools like Cisco Unified Communications Manager. It also covers how video systems integrate into collaboration environments and highlights Cisco's cloud services for enterprise communication, including Webex Meetings, Webex Teams, and hosted collaboration solutions.</li> </ul> |
| Topic 2 | <ul style="list-style-type: none"> <li><b>Common Service Tasks and Tools:</b> This section of the exam measures the skills of a Technical Support Engineer and focuses on tasks commonly needed to manage Cisco devices. It explains how devices boot up, introduces common Cisco IOS commands, and identifies tools for file management. It shows how to confirm physical connections, remotely access devices, and connect to the console port. It also covers how to capture the status of a device, recover passwords, and replace devices by using proper tools. Students are also taught how to find serial numbers on Cisco equipment to assist with support and maintenance activities.</li> </ul>    |
| Topic 3 | <ul style="list-style-type: none"> <li><b>Cisco Software:</b> This section of the exam measures the skills of a Network Engineer and discusses Cisco's software systems and licensing. It explains the difference between IOS install and bundle modes and gives an overview of different licensing models. Students learn how to manage Cisco software images, including backing up, transferring, and installing images via FTP, TFTP, or USB. It also covers how to handle configuration files to keep devices running properly and ensure smooth upgrades or replacements.</li> </ul>   |

|         |  |
|---------|--|
| Topic 4 | <ul style="list-style-type: none"> <li>• <b>Cisco Hardware Replacement:</b> This section of the exam measures the skills of a Technical Support Engineer and teaches how to safely and correctly replace Cisco hardware. It explains safety procedures such as creating safe work zones and handling electrostatic discharge. Students learn the step-by-step processes to replace a wide range of Cisco devices, from switches and routers to firewalls, UCS servers, and collaboration endpoints. It also covers configuring Cisco NX-OS software, including understanding operating modes, boot procedures, and password recovery, and introduces Cisco collaboration endpoint solutions like IP phones and video systems.</li> </ul> |
| Topic 5 | <ul style="list-style-type: none"> <li>• <b>Cisco UCS and Data Center Architecture:</b> This section of the exam measures the skills of a Data Center Engineer and introduces Cisco's UCS and data center solutions. It explains the devices found in a data center, including switches, UCS servers, and director switches, and describes different server deployment models. Students will also learn about virtualization components like virtual machines, hypervisors, cloud computing concepts, and deployment models. The section covers how Cisco UCS devices fit into campus networks, edge locations, and data centers, and explains the key components and connections used in UCS architecture.</li> </ul>                   |

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### Cisco Supporting Cisco Devices for Field Technicians Sample Questions (Q39-Q44):

#### NEW QUESTION # 39

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

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

**Answer: A**

Explanation:

The `install all` command is the standard method used to install or upgrade Cisco NX-OS software on Nexus switches. This command streamlines the installation process by automating tasks such as verifying the software image, checking for compatibility, and managing the installation of optional packages or SMUs (Software Maintenance Upgrades). It ensures a comprehensive and efficient upgrade process, minimizing the potential for errors. Cisco In contrast:

- \* `copy tftp: running-config` is used to copy configuration files, not software images.
- \* `install kickstart` is an outdated command from earlier NX-OS versions.
- \* `boot system` sets the boot variable but does not handle the full installation process.

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

#### NEW QUESTION # 40

What does OIR stand for in the context of Cisco ASR component replacement?

- A. **Online Insertion and Removal**
- B. Optical Interface Routing
- C. Operational Interface Redundancy

- D. Offline Installation and Reboot

**Answer: A**

Explanation:

Online Insertion and Removal (OIR) is a feature supported by Cisco ASR routers that allows for the insertion and removal of hardware components, such as line cards and modules, while the router is operating.

This capability enables maintenance and upgrades without the need to power down the system, thus minimizing network downtime.

Key aspects of OIR include:

\* **Seamless Operation:** OIR allows for hardware changes without interrupting the router's operation.

\* **Preservation of Routing Information:** The router maintains all routing information and active sessions during the insertion or removal process.

\* **Administrative Shutdown:** While not mandatory, it is recommended to administratively shut down the interfaces associated with the component being removed to ensure a graceful transition.

This feature is particularly beneficial in high-availability environments where maintaining continuous network service is critical.

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

#### NEW QUESTION # 41

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

□

**Answer:**

Explanation:

□

#### NEW QUESTION # 42

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

**Answer: C**

Explanation:

The Cisco UCS X9508 Modular Chassis, part of the UCS X-Series architecture, is designed without a midplane, which marks a major shift from previous UCS models. The midplane-free design is critical because:

# Direct front-to-rear airflow is made possible without obstruction.

# This airflow architecture enhances thermal efficiency, especially important during compute node replacements or upgrades.

# It allows modules to communicate via side-plane connectors, which are located on the sides rather than a fixed midplane.

This architecture:

\* Simplifies mechanical design

\* Reduces cooling complexity

\* Improves modularity and accessibility

# Why the other options are incorrect:

\* A. Hot-swapping is supported, but not because of midplane-free design—it's a UCS standard feature.

\* C. Upgrades to faster interconnects are enabled by side-plane I/O, not by midplane absence alone.

\* D. Power efficiency is a broader chassis feature, not specifically driven by the midplane design.

#### NEW QUESTION # 43

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

- **A. Connectivity problems**
- **B. Consistent link down status**
- C. Inability to save configurations
- D. Boot failures

- E. Frequent system crashes

**Answer: A,B**

Explanation:

A Network Interface Card (NIC) is essential for device connectivity. Two common symptoms indicating that a NIC may be faulty and require replacement are:

Connectivity problems (Option A): Devices may fail to communicate with the network, showing no IP address assignment or inability to ping/connect to other devices.

Consistent link down status (Option D): The link LED may stay off or frequently go down, even when connected to a functioning switch port with a known-good cable.

Other options like configuration issues (Option B) or system crashes (Option E) might be due to software or unrelated hardware components, and boot failures (Option C) typically point to motherboard or storage faults.

## NEW QUESTION # 44

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