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Cisco 800-150 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Cisco Infrastructure and Collaboration Infrastructure: 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.
Topic 2	<ul style="list-style-type: none">• Networking Foundations: This section of the exam measures the skills of a Network Engineer and covers the basic building blocks of computer networking. It explains different types of networks like local area networks and wireless networks, and introduces lightweight wireless LANs. It describes the layers of communication models like the OSI model and TCP• IP stack, and explains how data moves across networks. It also discusses the physical cabling used in networks, such as Ethernet and fiber optics. Students will learn about network switching, IP addressing, subnetting, and routing at Layer 3. The section also introduces Cisco's campus network devices, data center switches, UCS servers, and collaboration devices, describing their roles and functions in the network.
Topic 3	<ul style="list-style-type: none">• Cisco UCS and Data Center Architecture: 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.
Topic 4	<ul style="list-style-type: none">• Cisco Software: 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.

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Cisco Supporting Cisco Devices for Field Technicians Sample Questions (Q44-Q49):

NEW QUESTION # 44

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

- A. PAK licenses
- B. Hybrid licenses
- C. Smart licenses
- **D. RTU licenses**

Answer: D

Explanation:

Right-To-Use (RTU) licenses are locally managed licenses that allow users to activate specific features on Cisco devices without the need for external tools or connectivity to Cisco's licensing infrastructure. These licenses operate on an honor-based system, where the user agrees to comply with the licensing terms without mandatory enforcement mechanisms.

In contrast:

Hybrid licenses combine aspects of traditional and smart licensing models.

PAK (Product Authorization Key) licenses require registration and activation through Cisco's licensing portal.

Smart licenses necessitate communication with Cisco's Smart Licensing servers for activation and management.

NEW QUESTION # 45

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

Answer:

Explanation:

Explanation:

Integrates multiple network layers into a single infrastructure # Unified Fabric Provides link aggregation and redundancy between switches # Virtual port channels (vPCs) Enables software-defined networking in data centers # Application Centric Infrastructure (ACI) Combines storage and network traffic on a single network # Fibre Channel over Ethernet (FCoE) These data center solutions are covered in the FLDTEC course under Cisco's unified data center architecture and switching portfolio:

Unified Fabric: Streamlines Layer 2 and Layer 3 into a single operational model, reducing complexity and enhancing scalability.

vPC (Virtual Port Channel): Allows two Nexus switches to appear as one logical switch, enabling loop-free topology and active-active uplinks.

ACI (Application Centric Infrastructure): Cisco's SDN solution, delivering centralized automation, policy enforcement, and fabric management.

FCoE: Enables lossless Ethernet for storage (Fibre Channel) traffic to coexist with data traffic on the same Ethernet infrastructure.

These technologies are fundamental in modern Cisco-powered data centers to optimize performance, reduce hardware, and simplify management.

NEW QUESTION # 46

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

- A. It is a subdirectory in flash memory where individual software packages are stored.
- **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 used to extract the bin file during the installation process.

Answer: B

Explanation:

In Install mode, the packages.conf file plays a crucial role in the boot process of Cisco IOS XE Software. It specifies the list of software packages to be loaded and the sequence in which they should be initialized during system startup. This file ensures that all necessary components are correctly loaded, providing a modular and flexible approach to software management.

Contrary to the other options:

* The packages.conf file does not extract the bin file; it references already extracted packages.

* It does not contain the entire bundled image; that's characteristic of Bundle mode.

* While it resides in the flash memory, it is not a subdirectory but a configuration file.

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

NEW QUESTION # 47

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

Answer: C

Explanation:

The show flash: command is used to display the contents of the device's flash memory, which is where the Cisco IOS image is typically stored. By issuing this command, a technician can verify available space and determine whether there is enough capacity to accommodate a new IOS image before initiating an upgrade or image replacement process.

This command provides a detailed listing of files, their sizes, and the total and available memory space within the flash file system.

* show file-system lists all available file systems but doesn't detail their content.

* show memory shows runtime memory usage (RAM), not flash memory.

* show storage is not a standard IOS command.

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

NEW QUESTION # 48

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

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

Answer: B

Explanation:

Before installing or replacing DIMMs (Dual In-line Memory Modules) in a Cisco UCS server, it is essential to verify the current DIMM configuration and the population order. Cisco UCS servers have strict memory population rules to ensure optimal performance and compatibility, particularly in relation to memory channels and banks.

While the type, capacity, and firmware compatibility are important, failing to follow the correct population guidelines can result in failed boot processes or suboptimal performance.

NEW QUESTION # 49

