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AI CERTs AI+ NetworkExamination Sample Questions (Q22-Q27):

NEW QUESTION # 22

(What does a cookbook define in Chef's configuration process?)

- A. Environment variables for physical and virtual machines.
- B. Metadata storage for verifying configuration changes.
- **C. Resources and the sequence of their application on nodes.**
- D. Communication protocols between servers and nodes.

Answer: C

Explanation:

In Chef's configuration management process, a cookbook defines the resources and the sequence in which they are applied to nodes. AI+ Network automation documentation explains that cookbooks are the fundamental building blocks of Chef, containing recipes, attributes, templates, and files required to configure systems consistently.

Recipes within a cookbook specify what resources are needed—such as packages, services, files, and users— and the order in which they should be executed. This ensures predictable and repeatable configuration across large-scale infrastructures. Chef follows a declarative approach, meaning the desired system state is defined, and Chef enforces that state automatically.

Cookbooks do not define communication protocols or environment variables directly, nor are they limited to metadata storage. AI+ Network orchestration principles emphasize Chef cookbooks as essential for scalable automation, compliance enforcement, and infrastructure-as-code practices.

NEW QUESTION # 23

(What is the function of the ping command in networking labs?)

- **A. To test connectivity between two devices on a network.**
- B. To view the routing table of a network device.
- C. To configure IP addresses on router interfaces.
- D. To capture real-time network traffic for analysis.

Answer: A

Explanation:

The primary function of the ping command in networking labs is to test connectivity between two devices on a network. AI+ Network lab documentation identifies ping as a fundamental diagnostic tool used to verify Layer 3 communication using ICMP (Internet Control Message Protocol).

Ping sends ICMP Echo Request packets to a destination device and waits for Echo Reply messages. A successful response confirms that IP addressing, routing, and basic network connectivity are functioning correctly. This makes ping the first verification step after configuring interfaces, routes, or network links.

Ping does not configure IP addresses, display routing tables, or capture traffic. Those tasks are handled by commands such as ip address, show ip route, or packet analyzers like Wireshark. AI+ Network training consistently emphasizes ping as an essential troubleshooting command in both physical and virtual lab environments.

NEW QUESTION # 24

(Scenario: A video streaming platform experiences congestion during prime-time hours, resulting in buffering issues for users. It requires a solution to distribute server loads efficiently while maintaining a seamless viewing experience for users.

Question: Which solution should the platform implement?)

- A. Fixed bandwidth assignment for all user connections.
- **B. AI-based load balancing to reroute traffic dynamically.**
- C. Increased server count without traffic optimization.
- D. Manual server allocation to manage high-demand streams.

Answer: B

Explanation:

AI-based load balancing is the most effective solution for managing congestion and ensuring a seamless video streaming experience. AI+ Network documentation explains that AI-driven load balancers analyze real-time traffic patterns, user demand, server health, and network conditions to dynamically route traffic to optimal resources. Unlike static or manual allocation methods, AI-based systems adapt instantly to spikes in demand, such as prime-time viewing hours. This ensures that no single server becomes overloaded while others remain underutilized. AI-driven rerouting reduces latency, prevents buffering, and improves overall Quality of Experience (QoE) for users. Simply increasing server count without intelligent traffic distribution does not guarantee performance improvements and often leads to inefficiencies. Fixed bandwidth assignments fail to accommodate fluctuating demand, and manual intervention is too slow for real-time environments. AI+ Network best practices clearly position AI-based load balancing as a critical technology for scalable, high-performance content delivery platforms.

NEW QUESTION # 25

(Which type of switch is most suitable for powering security cameras in a remote warehouse that require both power and data, without running separate power cables?)

- A. Unmanaged Switch
- B. Managed Switch
- C. PoE Switch
- D. Fiber Switch

Answer: C

Explanation:

A Power over Ethernet (PoE) switch is the most suitable choice for powering security cameras that require both data connectivity and electrical power over a single cable. AI+ Network foundational documentation explains that PoE technology allows Ethernet cables to carry both power and data, eliminating the need for separate electrical wiring. This is especially beneficial in remote or hard-to-access locations such as warehouses, where installing additional power outlets can be costly and impractical. PoE switches simplify deployment, reduce infrastructure costs, and improve flexibility when placing devices like IP cameras, VoIP phones, and wireless access points. Managed and unmanaged switches do not inherently provide power delivery unless they specifically support PoE. Fiber switches transmit data over optical fiber but cannot supply electrical power. AI+ Network materials consistently highlight PoE switches as an efficient and scalable solution for powering network-connected devices.

NEW QUESTION # 26

(What is the purpose of VLANs in a network?)

- A. To logically divide a physical network into isolated segments.
- B. To provide internet access to all connected devices.
- C. To replace the need for network switches and routers.
- D. To enhance physical connectivity between devices.

Answer: A

Explanation:

Virtual Local Area Networks (VLANs) are used to logically divide a single physical network into multiple isolated broadcast domains. According to AI+ Network foundational documentation, VLANs allow network administrators to group devices based on function, department, or security requirements rather than physical location. By segmenting a network logically, VLANs improve security by limiting broadcast traffic and reducing the scope of potential attacks. Devices in different VLANs cannot communicate directly without routing, which allows administrators to enforce access control policies. VLANs also enhance performance by reducing unnecessary broadcast traffic across the entire network. VLANs do not enhance physical connectivity, provide internet access by themselves, or replace networking hardware. Instead, they work in conjunction with switches and routers to create scalable, secure, and efficient network architectures. AI+ Network materials consistently identify VLANs as a core technique for network segmentation and traffic management.

NEW QUESTION # 27

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