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AI CERTs AI+ Network Examination Sample Questions (Q21-Q26):

NEW QUESTION # 21

(How does AI-driven network optimization improve performance?)

- A. By reducing human involvement entirely.
- B. By assigning identical bandwidth to all devices.
- C. By distributing resources based on live traffic data.
- D. By converting all data to encrypted formats.

Answer: C

Explanation:

AI-driven network optimization improves performance by dynamically distributing network resources based on real-time traffic conditions. AI+ Network documentation explains that AI systems continuously analyze telemetry data such as bandwidth usage, latency, packet loss, and application demand. Using this information, the network can automatically adjust routing paths, bandwidth allocation, and QoS policies to maintain optimal performance.

This adaptive approach ensures that critical applications receive priority during congestion, while non-essential traffic is deprioritized. Unlike static configurations, AI-driven optimization responds instantly to traffic fluctuations, preventing bottlenecks and improving user experience.

Assigning identical bandwidth to all devices ignores application priority and traffic variability, while reducing human involvement entirely is neither practical nor desirable. Encryption improves security, not performance.

AI+ Network strategies clearly position real-time, data-driven resource distribution as the core benefit of AI-powered network

optimization.

NEW QUESTION # 22

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

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

Answer: C

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 # 23

(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. Communication protocols between servers and nodes.
- **D. Resources and the sequence of their application on nodes.**

Answer: D

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 # 24

(Scenario: A company needs a network design that maintains high performance while ensuring reliability.

Question: Which combination of strategies would best achieve this?)

- **A. Load balancing with redundant connections.**
- B. Centralized routing with hybrid topology.
- C. Cloud infrastructure with fault tolerance.
- D. Star topology with failover systems.

Answer: A

Explanation:

Load balancing combined with redundant connections is the most effective strategy for achieving both high performance and reliability in modern network designs. According to AI+ Network foundational principles, load balancing distributes traffic evenly

across multiple network paths, links, or devices, preventing congestion and ensuring optimal resource utilization. This directly improves performance by avoiding single points of saturation.

Redundant connections complement load balancing by providing alternate paths in case of link, device, or circuit failure. If one connection becomes unavailable, traffic is automatically rerouted through another active path, maintaining service continuity without noticeable downtime. AI+ Network documentation emphasizes redundancy as a critical design principle for high-availability architectures, particularly in enterprise and mission-critical environments.

While star topology with failover improves reliability, it can still suffer from central bottlenecks. Centralized routing introduces single points of failure, and cloud fault tolerance alone does not address on-premise or hybrid network performance challenges. In contrast, load balancing with redundancy directly addresses both throughput optimization and fault tolerance at the network layer. Therefore, this combination best satisfies the requirement of maintaining high performance while ensuring consistent and reliable network operations.

NEW QUESTION # 25

(In a hybrid topology, why is the combination of multiple topologies beneficial?)

- A. Simplifies network management and reduces costs.
- B. Requires fewer cables and connections for all devices.
- C. Ensures uniformity and ease of data transmission.
- **D. Leverages strengths while minimizing weaknesses of each topology.**

Answer: D

Explanation:

A hybrid topology is beneficial because it leverages the strengths of multiple network topologies while minimizing their individual weaknesses. AI+ Network foundational documentation explains that no single topology is ideal for all scenarios. For example, star topologies offer easy fault isolation, mesh topologies provide high redundancy, and bus or ring topologies reduce cabling costs. By combining these designs, organizations can tailor their network architecture to specific performance, scalability, and reliability requirements. Hybrid topologies allow critical systems to benefit from redundancy and high availability while less critical areas can use simpler, cost-effective designs. This flexibility is especially important in enterprise environments with diverse workloads and operational needs.

Options such as uniformity or reduced cabling are not guaranteed in hybrid designs. Instead, AI+ Network materials emphasize adaptability and resilience as the core advantages of hybrid topology implementations.

NEW QUESTION # 26

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