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AI CERTs AI+ Network Examination Sample Questions (Q44-Q49):

NEW QUESTION # 44

(Scenario: A multinational corporation faces an issue where employees working remotely often connect to corporate resources using unsecured devices. Despite enforcing strong password policies, they still encounter breaches due to compromised endpoints. The security team needs a strategy to ensure only compliant devices can access sensitive resources while minimizing user disruption.

Question: What approach should the corporation adopt to resolve this issue?)

- A. Deploy network segmentation to isolate critical resources from remote access.
- **B. Implement Zero Trust Architecture to verify user and device compliance.**
- C. Enforce stricter password policies to enhance user authentication security.
- D. Restrict remote access entirely to prevent breaches from unsecured devices.

Answer: B

Explanation:

Implementing a Zero Trust Architecture (ZTA) is the most effective approach for securing access from remote and potentially unsecured devices. AI+ Network security documentation explains that Zero Trust operates on the principle of "never trust, always verify," requiring continuous validation of both user identity and device posture before granting access.

Unlike traditional perimeter-based security, Zero Trust evaluates device compliance factors such as operating system health, patch status, and endpoint security controls. Access is granted dynamically and contextually, minimizing disruption while significantly reducing risk. Even authenticated users are restricted to least-privilege access.

Stricter passwords alone do not address compromised endpoints, and completely restricting remote access harms productivity. Network segmentation helps limit damage but does not verify endpoint integrity. AI+ Network frameworks clearly identify Zero Trust as the preferred model for modern, distributed workforces.

NEW QUESTION # 45

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

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

Answer: B

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 # 46

(What makes quantum computing a game changer for network security?)

- A. It reduces the need for multi-layered security in modern infrastructures.
- **B. It enables quantum key distribution to create tamper-proof encryption.**
- C. It accelerates packet transmission speeds in 5G networks.
- D. It automates traffic optimization across all IoT-enabled networks.

Answer: B

Explanation:

Quantum computing is a game changer for network security primarily because it enables quantum key distribution (QKD), which provides theoretically tamper-proof encryption. AI+ Network future-technology documentation explains that QKD uses the principles of quantum mechanics—such as superposition and entanglement—to securely exchange cryptographic keys. Any attempt to intercept or measure the quantum key alters its state, immediately revealing the presence of an attacker.

This represents a major advancement over classical cryptographic systems, which rely on computational complexity and can eventually be broken by sufficiently powerful computers, including quantum computers themselves. Rather than reducing the need for layered security, quantum security enhances cryptographic resilience at the foundational level.

Quantum computing does not directly accelerate packet transmission or automate traffic optimization. Instead, its transformative impact lies in post-quantum security, ensuring long-term data confidentiality in an era of advanced computational threats. AI+ Network materials identify quantum-safe encryption as a critical pillar of future secure network architectures.

NEW QUESTION # 47

(How can SDN controllers enhance VNET management?)

- A. Limited visibility into the network
- B. Decentralized control
- **C. Automated task provisioning**
- D. Simplified local configuration

Answer: C

Explanation:

Software-Defined Networking (SDN) controllers enhance Virtual Network (VNET) management primarily through automated task provisioning. AI+ Network documentation explains that SDN introduces a centralized control plane that separates network intelligence from the data plane, enabling programmatic control of network behavior.

With SDN controllers, administrators can automatically provision network services such as routing, access control, segmentation, and bandwidth allocation across virtual networks. This automation reduces manual configuration errors and ensures consistency

across large-scale environments. SDN controllers also enable rapid deployment of new services, dynamic policy enforcement, and real-time network optimization.

Options such as decentralized control and simplified local configuration contradict SDN's centralized, policy-driven design. Limited visibility is the opposite of SDN's advantage, as SDN provides enhanced, global visibility into network state. AI+ Network materials emphasize SDN controllers as key enablers of scalable, agile, and automated VNET management.

NEW QUESTION # 48

(How do AI frameworks simplify model development for networking solutions?)

- A. By limiting model designs to a single use case.
- B. By requiring advanced expertise in deep learning for all implementations.
- C. By providing pre-built algorithms to abstract low-level details.
- D. By focusing only on manual coding for each specific model.

Answer: C

Explanation:

AI frameworks simplify model development for networking solutions by providing pre-built algorithms and abstractions that hide low-level implementation complexity. According to AI+ Network documentation, frameworks such as TensorFlow, PyTorch, and specialized networking AI libraries enable engineers to focus on problem-solving rather than mathematical and architectural details. These frameworks include optimized libraries for data processing, training, validation, and deployment, significantly reducing development time. In networking use cases—such as traffic prediction, anomaly detection, and performance optimization—pre-built models can be adapted quickly without designing algorithms from scratch.

Contrary to requiring advanced deep learning expertise, AI frameworks lower the entry barrier for network engineers by offering modular components and reusable templates. They also support scalability and integration with automation platforms, aligning with AI+ Network goals of agility and efficiency.

Limiting models to a single use case or relying solely on manual coding contradicts the purpose of frameworks. AI+ Network materials clearly position AI frameworks as accelerators for innovation in intelligent networking solutions.

NEW QUESTION # 49

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