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AI CERTs AI+ Network Examination Sample Questions (Q17-Q22):

NEW QUESTION # 17

(Which system is best for detecting unauthorized logins and adapting to new threats?)

- A. Load balancers
- B. Reactive AI
- C. Static firewalls
- D. Machine learning-driven intrusion detection

Answer: D

Explanation:

Machine learning-driven intrusion detection systems (IDS) are best suited for detecting unauthorized logins and adapting to emerging threats. AI+ Network security documentation highlights ML-driven IDS as systems that continuously learn from historical and real-time data to identify abnormal behavior.

Unlike static firewalls, which rely on predefined rules, ML-based IDS can detect novel attack patterns, brute-force attempts, and compromised credentials. They adapt over time, improving detection accuracy and reducing false positives.

Load balancers are unrelated to security monitoring, and reactive AI responds after incidents rather than proactively detecting them. AI+ Network materials consistently identify machine learning-driven IDS as a core component of modern, adaptive cybersecurity architectures.

NEW QUESTION # 18

(In Cisco Packet Tracer, after connecting two networks with static routes, which command verifies that PCs on different networks can communicate?)

- A. ip route.
- B. ping [Destination IP Address].
- C. show ip protocols.
- D. show running-config

Answer: B

Explanation:

The ping [Destination IP Address] command is the correct and most reliable method to verify communication between PCs on different networks in Cisco Packet Tracer. AI+ Network lab documentation highlights ping as a Layer 3 connectivity test that confirms end-to-end reachability across routed networks.

When static routes are configured, routing tables may appear correct, but actual packet delivery must still be validated. The ping command sends ICMP Echo Request packets from the source device to the destination IP address and expects Echo Replies in return. A successful response confirms that routing, addressing, interface configuration, and Layer 2/Layer 3 operations are functioning correctly across the network path.

Other options only provide indirect information. show running-config displays configuration settings but does not validate traffic flow. ip route shows routing table entries, confirming that routes exist, but not that hosts can communicate. show ip protocols only lists routing protocol information and is not relevant for testing static route connectivity.

AI+ Network practical labs consistently emphasize ping as the primary verification tool after routing changes, making option D the correct answer.

NEW QUESTION # 19

(What is the purpose of IoT sensors in smart cities?)

- A. To prioritize network traffic based on static configuration files.
- B. To encrypt data transmissions between IoT devices and cloud servers.
- C. To monitor and collect real-time data for optimizing city operations.
- D. To replace traditional infrastructure with cloud-based systems.

Answer: C

Explanation:

IoT sensors in smart cities are primarily used to monitor and collect real-time data that enables optimized city operations. AI+

Network documentation explains that IoT sensors gather information from traffic systems, environmental monitors, energy grids, public safety devices, and infrastructure assets.

This real-time data allows city systems to make intelligent decisions, such as adjusting traffic signals, detecting environmental hazards, optimizing energy consumption, and improving emergency response times.

When combined with AI analytics, IoT data supports predictive maintenance and proactive urban management.

IoT sensors themselves do not perform encryption or traffic prioritization, nor do they replace physical infrastructure. AI+ Network frameworks emphasize IoT as a data collection layer that feeds intelligent systems responsible for automation and optimization in smart city environments.

NEW QUESTION # 20

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

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

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 # 21

(What distinguishes Kubernetes in the orchestration of containerized applications?)

- A. It uses YAML files for device-level configuration tasks.
- B. It restricts workloads to a single server for improved performance.
- C. It requires manual intervention to balance workloads across nodes.
- D. **It automates deployment and scaling while managing container lifecycles.**

Answer: D

Explanation:

Kubernetes is distinguished by its ability to fully automate the deployment, scaling, and lifecycle management of containerized applications. According to AI+ Network advanced networking documentation, Kubernetes operates as a container orchestration platform that abstracts infrastructure complexity and ensures applications remain available, scalable, and resilient.

Kubernetes continuously monitors the state of containers and nodes, automatically restarting failed containers, rescheduling workloads when nodes go down, and scaling applications up or down based on demand. This self-healing and auto-scaling capability eliminates the need for manual workload balancing, which is a major advantage in dynamic, cloud-native environments. While Kubernetes does use YAML files, these are not for device-level configurations but for declarative application definitions. It also supports distributed workloads across multiple nodes and clusters, rather than restricting applications to a single server. AI+ Network materials emphasize Kubernetes as a foundational technology for microservices, multi-cloud deployments, and AI-driven infrastructure due to its automation- first design.

NEW QUESTION # 22

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