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AI CERTs AI+ Network Examination Sample Questions (Q15-Q20):

NEW QUESTION # 15

(How does Python's Netmiko library simplify network automation?)

- A. By managing Kubernetes clusters for container orchestration.
- B. By integrating deep learning algorithms for anomaly detection.
- C. By automating application deployment on cloud platforms.
- **D. By supporting multi-vendor environments for device configuration.**

Answer: D

Explanation:

Python's Netmiko library simplifies network automation by supporting multi-vendor environments for device configuration. AI+ Network automation documentation highlights Netmiko as a Python-based abstraction layer built on SSH that enables consistent interaction with network devices from multiple vendors, including Cisco, Juniper, Arista, and HP.

Netmiko removes the complexity of vendor-specific CLI nuances by providing standardized connection methods and command execution functions. This allows network engineers to automate repetitive configuration and validation tasks using a single script rather than maintaining separate workflows for each platform.

Unlike tools focused on AI analytics or container orchestration, Netmiko is purpose-built for network device management, making it ideal for configuration backups, bulk changes, and compliance checks. AI+ Network materials emphasize Netmiko as a foundational automation tool that bridges traditional networking and programmable infrastructure.

NEW QUESTION # 16

(What functionality does Bubbln provide to enhance network management?)

- A. Provides deep learning models for DNS domain classification.
- **B. Automates routine network tasks and configurations efficiently.**
- C. Deploys ML models for anomaly detection in real-time.
- D. Offers penetration testing for identifying vulnerabilities.

Answer: B

Explanation:

Bubbln enhances network management by automating routine network tasks and configuration processes. AI+ Network automation documentation describes Bubbln as an orchestration-focused platform designed to reduce manual intervention in repetitive network operations such as provisioning, configuration updates, compliance checks, and policy enforcement.

By automating these tasks, Bubbln improves operational efficiency, reduces human error, and ensures configuration consistency across large-scale network environments. This is particularly valuable in enterprise and multi-cloud infrastructures where managing devices manually becomes complex and error-prone.

Unlike tools focused on security analytics, penetration testing, or anomaly detection, Bubbln's primary role is workflow automation and orchestration. AI+ Network materials emphasize automation platforms like Bubbln as critical enablers of scalable, agile, and AI-ready networks, allowing engineers to focus on optimization and strategic initiatives rather than repetitive tasks.

NEW QUESTION # 17

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

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

Answer: B

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 # 18

(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. Cloud infrastructure with fault tolerance.
- C. Centralized routing with hybrid topology.
- 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 # 19

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

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

Answer: C

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 # 20

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