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AI CERTs AI+ Network Examination Sample Questions (Q16-Q21):

NEW QUESTION # 16

(What is unique about AI's approach to anomaly detection?)

- A. It identifies irregularities using historical and live data.
- B. It automates traffic routes based on user input.
- C. It depends on static rules to flag known threats.
- D. It focuses completely on single-device behavior patterns.

Answer: A

Explanation:

AI's approach to anomaly detection is unique because it identifies irregularities by analyzing both historical and real-time data. AI+ Network security documentation explains that AI systems learn baseline behavior patterns over time and continuously compare live traffic against these baselines to detect deviations.

This adaptive learning capability allows AI to identify unknown threats, zero-day attacks, and subtle anomalies that static rule-based systems often miss. Unlike traditional methods that rely on predefined signatures, AI-driven anomaly detection evolves as network behavior changes.

AI does not rely solely on user input or focus only on individual devices; instead, it analyzes patterns across users, applications, and network segments. AI+ Network materials emphasize this holistic, data-driven detection model as a cornerstone of modern, intelligent network security architectures.

NEW QUESTION # 17

(How does Gemini's multimodal AI ecosystem support networking innovations?)

- A. By analyzing traffic logs for detecting network anomalies.
- B. By enforcing compliance using predefined policy templates.
- C. By configuring virtual devices in simulated topologies.
- D. By integrating text, images, and code to develop advanced solutions.

Answer: D

Explanation:

Gemini's multimodal AI ecosystem supports networking innovations by integrating text, images, and code into a unified intelligence framework. AI+ Network documentation describes multimodal AI as a system capable of processing and correlating multiple data types simultaneously, enabling richer context and more advanced problem-solving.

In networking, this integration allows engineers to analyze configuration files (text), network diagrams (images), and automation scripts (code) together. For example, Gemini can interpret topology diagrams alongside device configurations to recommend optimizations, detect inconsistencies, or generate automation workflows. This significantly accelerates network design, troubleshooting, and innovation.

Unlike tools focused on log analysis or compliance enforcement, Gemini's strength lies in cross-domain reasoning, enabling AI-assisted decision-making across planning, implementation, and optimization stages.

AI+ Network materials emphasize multimodal AI as a key enabler of next-generation intelligent networks, where insights are derived holistically rather than from isolated data sources.

NEW QUESTION # 18

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

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

Answer: A

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 # 19

(How can SDN controllers enhance VNET management?)

- A. Decentralized control
- B. Simplified local configuration
- C. Limited visibility into the network

- **D. Automated task provisioning**

Answer: D

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 # 20

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

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

Answer: B

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 # 21

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