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AI CERTs AI+ NetworkExamination Sample Questions (Q21-Q26):

NEW QUESTION # 21

(Which feature of Zero Trust Architecture best addresses insider threats by enforcing dynamic and continuous access controls?)

- A. Network perimeter segmentation
- B. Firewalls to block unverified internal traffic
- **C. Role-Based Access Control (RBAC)**
- D. Static IP-based rules

Answer: C

Explanation:

Role-Based Access Control (RBAC) is a key Zero Trust Architecture feature that effectively addresses insider threats through dynamic and continuous access enforcement. AI+ Network security documentation explains that RBAC limits user access based on defined roles and responsibilities, ensuring users can only access resources necessary for their job functions.

In a Zero Trust model, RBAC is continuously evaluated alongside contextual factors such as device posture, user behavior, and session risk. This reduces the potential damage from compromised insider accounts and prevents privilege abuse.

Static IP rules and perimeter segmentation rely on outdated trust assumptions, while firewalls alone cannot address insider misuse.

AI+ Network materials identify RBAC as a foundational mechanism for enforcing least-privilege access within Zero Trust frameworks.

NEW QUESTION # 22

(Which type of switch is most suitable for powering security cameras in a remote warehouse that require both power and data, without running separate power cables?)

- A. Fiber Switch
- B. Managed Switch
- C. Unmanaged Switch
- D. PoE Switch

Answer: D

Explanation:

A Power over Ethernet (PoE) switch is the most suitable choice for powering security cameras that require both data connectivity and electrical power over a single cable. AI+ Network foundational documentation explains that PoE technology allows Ethernet cables to carry both power and data, eliminating the need for separate electrical wiring.

This is especially beneficial in remote or hard-to-access locations such as warehouses, where installing additional power outlets can be costly and impractical. PoE switches simplify deployment, reduce infrastructure costs, and improve flexibility when placing devices like IP cameras, VoIP phones, and wireless access points.

Managed and unmanaged switches do not inherently provide power delivery unless they specifically support PoE. Fiber switches transmit data over optical fiber but cannot supply electrical power. AI+ Network materials consistently highlight PoE switches as an efficient and scalable solution for powering network-connected devices.

NEW QUESTION # 23

(Scenario: A multinational corporation with offices in multiple countries is experiencing significant delays in data processing due to the centralized routing of all traffic to a single data center. The company wants to minimize latency and improve real-time processing capabilities while ensuring that data remains secure within the local regions.

Question: What strategy should they adopt to address these challenges?)

- A. Deploy a single VNET to handle all global traffic centrally.
- B. Use a hybrid cloud setup to distribute traffic across multiple public and private networks.
- C. Consolidate traffic into fewer subnets using VLANs for simplicity.
- D. Implement edge computing to process data closer to its origin and reduce latency.

Answer: D

Explanation:

Implementing edge computing is the most effective strategy to reduce latency and enhance real-time data processing in geographically distributed environments. AI+ Network documentation highlights edge computing as a modern architectural approach where data is processed closer to its source rather than being sent to a centralized data center. This significantly reduces transmission delays, which is critical for real-time analytics, collaboration tools, and latency-sensitive applications.

For multinational organizations, edge computing enables regional data locality, ensuring that sensitive data remains within local jurisdictions, supporting regulatory compliance and security requirements. By processing data at or near regional offices, the organization reduces reliance on long-haul WAN links, minimizing congestion and improving application responsiveness.

Options such as centralized VNETs or VLAN consolidation do not address latency issues and may worsen bottlenecks. While hybrid cloud improves flexibility, it does not inherently solve real-time processing delays unless paired with edge capabilities. AI+ Network trends clearly identify edge computing as a foundational technology for distributed enterprises seeking performance, resilience, and compliance.

NEW QUESTION # 24

(Which virtualization approach is best for isolating application environments and ensuring regulatory compliance?)

- A. Network virtualization
- B. Storage virtualization
- C. Application virtualization

- D. Hardware virtualization

Answer: D

Explanation:

Hardware virtualization is the most effective approach for isolating application environments and ensuring regulatory compliance. AI+ Network documentation explains that hardware virtualization uses hypervisors to create fully isolated virtual machines (VMs), each with its own operating system, resources, and security boundaries.

This strong isolation is critical for meeting regulatory requirements such as data separation, access control, and auditability. Each VM operates independently, preventing one application from affecting another, which reduces risk and improves security posture.

Hardware virtualization also supports detailed logging and monitoring, which are essential for compliance audits.

While application virtualization isolates applications to some extent, it does not provide the same level of system-level isolation.

Network and storage virtualization focus on infrastructure abstraction rather than application containment. AI+ Network materials consistently identify hardware virtualization as the preferred choice for compliance-driven environments.

NEW QUESTION # 25

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

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

Answer: D

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 # 26

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