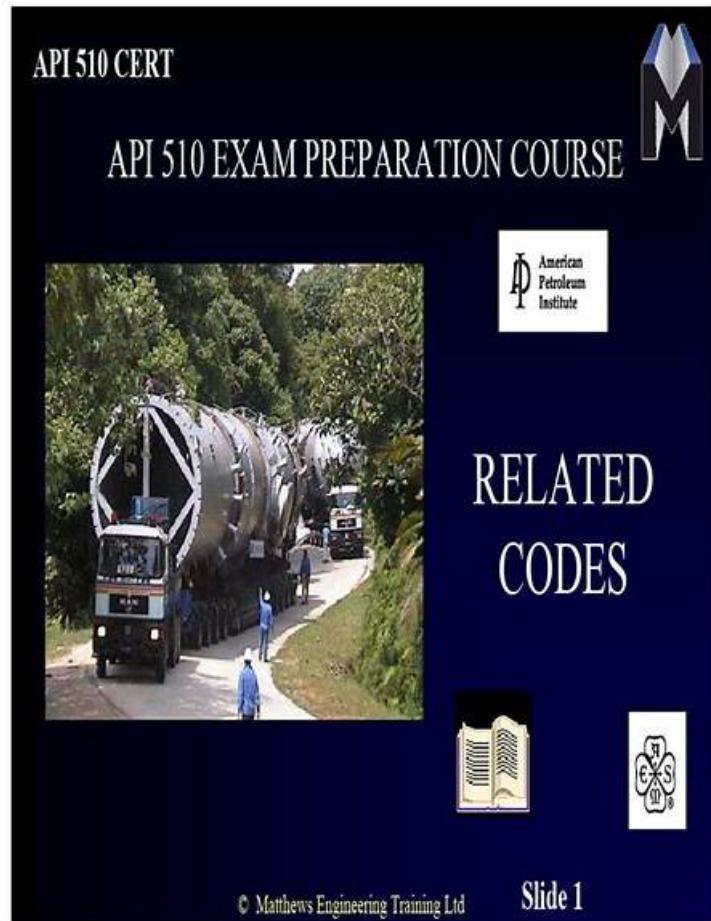


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## AI CERTs AI+ Network Examination Sample Questions (Q43-Q48):

### NEW QUESTION # 43

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

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

**Answer: B**

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 # 44

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

- A. By integrating deep learning algorithms for anomaly detection.
- B. By managing Kubernetes clusters for container orchestration.
- 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 # 45

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

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

**Answer: B**

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 # 46**

(How are devices within a VNET able to communicate with devices on other networks?)

- A. By using Layer 2 switching for traffic forwarding.
- B. By configuring NAT rules for external routing.
- C. By defining IP address boundaries and subnets.
- D. **By setting up routing protocols for path selection.**

#### **Answer: D**

Explanation:

Devices within a Virtual Network (VNET) communicate with devices on other networks through routing mechanisms that determine the best path for traffic. AI+ Network foundational networking documents explain that routing protocols or static routing configurations enable Layer 3 connectivity between separate IP networks.

Routing protocols such as OSPF, BGP, or static routes allow routers and virtual gateways to exchange network reachability information. This ensures that packets can traverse different network segments, cloud regions, or on-premise environments. Without routing, devices would be limited to local subnet communication only.

NAT may be used for address translation but does not itself enable network-to-network communication.

Defining IP subnets establishes network boundaries but does not provide connectivity. Layer 2 switching operates within the same broadcast domain and cannot forward traffic across different networks.

AI+ Network training materials consistently reinforce that routing is the core mechanism enabling inter- network communication in both physical and virtualized environments.

#### **NEW QUESTION # 47**

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

#### **Answer: A**

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 # 48**

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