

# AI CERTs AT-510 Practice Questions



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### **AI CERTs AI+ Network Examination Sample Questions (Q30-Q35):**

#### **NEW QUESTION # 30**

(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 # 31**

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

- A. By automating application deployment on cloud platforms.

- B. By supporting multi-vendor environments for device configuration.
- C. By managing Kubernetes clusters for container orchestration.
- D. By integrating deep learning algorithms for anomaly detection.

**Answer: B**

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 # 32**

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

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

**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 # 33**

(What distinguishes Cisco Packet Tracer from GNS3 in terms of usability?)

- A. It offers a user-friendly interface designed for Cisco device simulations.
- B. It integrates with third-party virtualization tools like VMware.
- C. It supports real network operating systems for precise emulation.
- D. It focuses on enterprise-grade networking scenarios exclusively.

**Answer: A**

Explanation:

Cisco Packet Tracer is distinguished by its user-friendly interface specifically designed for simulating Cisco networking devices. AI+ Network lab documentation highlights Packet Tracer as an educational tool aimed at beginners and intermediate learners, providing intuitive drag-and-drop topology creation and simplified configuration workflows.

Unlike GNS3, which runs real network operating systems and requires greater system resources and expertise, Packet Tracer uses simulated devices with guided configuration support. This makes it ideal for learning foundational networking concepts, practicing CCNA-level labs, and visualizing packet flow without complex setup.

Packet Tracer does not integrate with virtualization platforms like VMware and does not support real IOS images. AI+ Network materials emphasize Packet Tracer's accessibility and ease of use as its primary advantage over more advanced emulation tools.

## NEW QUESTION # 34

(How do firewalls enhance network security in modern infrastructures?)

- A. By managing traffic and blocking unauthorized access.
- B. By isolating critical servers from external traffic sources.
- C. By encrypting all incoming and outgoing data packets.
- D. By ensuring all devices follow dynamic configuration rules.

**Answer: A**

Explanation:

Firewalls enhance network security by managing traffic and blocking unauthorized access based on predefined security rules. AI+ Network security documentation explains that firewalls operate at various layers of the OSI model to inspect incoming and outgoing traffic and enforce access control policies.

Modern firewalls can filter traffic based on IP addresses, ports, protocols, applications, and user identities.

Advanced next-generation firewalls (NGFWs) also integrate intrusion prevention, deep packet inspection, and AI-driven threat detection. This layered inspection prevents unauthorized access, limits attack surfaces, and protects internal assets.

Firewalls do not encrypt all traffic by default, nor do they enforce configuration rules across devices. While they can isolate servers logically, their primary role is traffic control and access enforcement. AI+ Network materials consistently identify firewalls as a foundational component of secure, modern network architectures.

## NEW QUESTION # 35

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