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## **ComptIA SecAI+ Certification Exam Objectives**

**EXAM NUMBER: CY0-001 V1**

ComptIA SecAI+ CY0-001 V1 Certification Exam  
Exam Objectives Document Version 1.1  
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## CompTIA SecAI+ Certification Exam Sample Questions (Q84-Q89):

### NEW QUESTION # 84

A company wants to reduce IDS false positives. What tuning should occur FIRST?

- A. Baseline normal behavior
- B. Add new signatures
- C. Disable low-priority alerts
- D. Increase signature sensitivity

**Answer: A**

Explanation:

A behavioral baseline enables effective tuning and alert reduction.

### NEW QUESTION # 85

A security engineer needs to monitor an AI-based system for runtime operations. The engineer is mostly concerned about the visibility of internal activity. Which of the following is the most appropriate monitoring solution?

- A. Deploying a security information and event management (SIEM) tool
- B. Enabling stack call and debugging level traces at the function level
- C. Relying on vendor model controls and monitoring prompt inputs
- D. Implementing a web application firewall (WAF) with header logging

**Answer: B**

Explanation:

For runtime visibility into internal activity of an AI system, the most suitable control is enabling stack calls and debugging-level traces. This provides granular insights into function-level execution, dependencies, and operations, which directly supports monitoring of runtime behavior.

### NEW QUESTION # 86

Hotspot Question

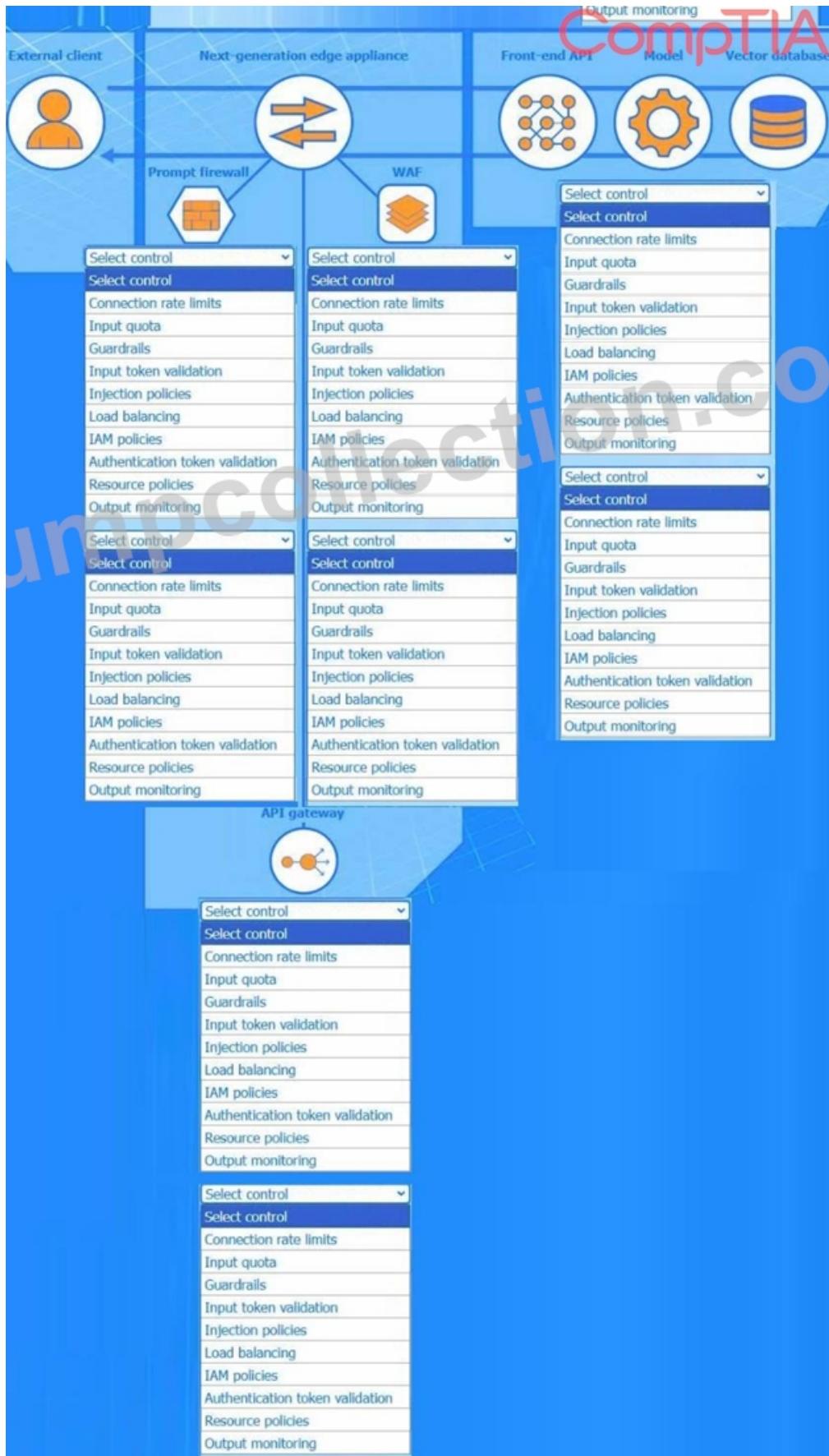
Instructions

Use the drop-down menus to define two appropriate security controls for each component of the AI system. Each control may be used only once.

If at any time you would like to bring back the initial state of the simulation please click the Reset All button.

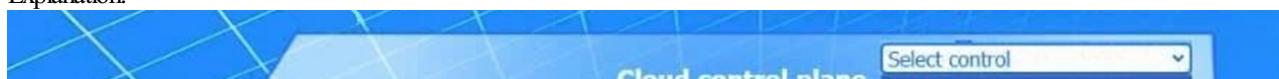
An engineer is deploying a new AI system and wants to integrate it into the core system through an API.





**Answer:**

**Explanation:**





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Explanation:

Cloud control plane: IAM policies, Resource policies

Prompt firewall: Injection policies, Output monitoring

WAF: Connection rate limits, Input token validation

Front-end API + Model + Vector database: Guardrails, Input quota

API gateway: Load balancing, Authentication token validation

Cloud control plane relies on IAM and resource policies to enforce centralized identity and access management as well as usage restrictions.

Prompt firewall protects against malicious input via injection policies and ensures outputs are monitored for compliance and safety.

WAF controls connection rate to mitigate DoS and validates input tokens to stop unauthorized access attempts.

Front-end API, Model, and Vector database share guardrails to restrict unsafe behaviors and input quotas to prevent overuse, making them consistent and efficient security points.

API gateway enforces load balancing for availability and validates authentication tokens at the entry point, providing secure and scalable access.

### NEW QUESTION # 87

A security consultant must summarize the impact of posture management on a machine learning (ML) use case. Which of the following is the most appropriate reference for this purpose?

- A. European Union AI Act
- B. National Institute of Standards and Technology (NIST) AI Risk Management Framework (RMF)
- C. Generative adversarial network (GAN)
- D. Organization for Economic Co-operation and Development (OECD) standards

**Answer: B**

Explanation:

The NIST AI RMF provides structured guidance for assessing and managing risks across the AI lifecycle, including posture management. It helps organizations align AI security practices with governance, resilience, and trustworthiness requirements.

### NEW QUESTION # 88

A web server shows signs of SQL injection. Which control BEST prevents this?

- A. Input validation
- B. Runtime application self-protection (RASP)
- C. SSL encryption
- D. Account lockout

**Answer: A**

Explanation:

Validating and sanitizing user input is the core SQLi defense.

### NEW QUESTION # 89

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