

Avoid Exam Failure With Splunk SPLK-5002 PDF Questions

"Automating Incident Response - Ensures that responses to security compliance guidelines." Automated Evidence Collection - Helps automatically collecting logs, alerts, and incident data. Playbook Can automatically detect and remediate non-compliant actions (e.g. blocking unauthorized access).

Example in Splunk SOAR A playbook can be configured to automatically respond to an unencrypted database storing customer data by triggering a compliance violation alert and notifying the compliance team.

Why Not the Other Options?

E. A. Integrating with legacy systems - While important, compliance engineers should modernize legacy systems if they pose security workflows - Automation is beneficial, but it should not be prioritized over security and compliance. Some security decisions require human oversight. L. employees - Efficiency is important, but security cannot be sacrificed to cut costs. Skilled SOC analysts and engineers are critical to cybersecurity defense.

Reference & Learning Resources

Build Splunk Docs - Security Essentials: <https://docs.splunk.com#dashboards>: <https://splunkbase.splunk.com/app/3435/d-00-Splunk-Compliance>: https://www.splunk.com/en_us/products/soar.html#framework & Splunk Integration: <https://www.nist.gov/cyberframework>

Question 3 (Single Select)

What is the primary purpose of data indexing in Splunk?

- A: To ensure data normalization
- B: To store raw data and enable fast search capabilities
- C: To secure data from unauthorized access
- D: To visualize data using dashboards

Correct Answer: B

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Splunk Certified Cybersecurity Defense Engineer Sample Questions (Q57-Q62):

NEW QUESTION # 57

What methods improve the efficiency of Splunk's automation capabilities? (Choose three)

- **A. Using modular inputs**
- B. Leveraging saved search acceleration
- C. Implementing low-latency indexing
- **D. Employing prebuilt SOAR playbooks**
- **E. Optimizing correlation search queries**

Answer: A,D,E

Explanation:

How to Improve Splunk's Automation Efficiency?

Splunk's automation capabilities rely on efficient data ingestion, optimized searches, and automated response workflows. The following methods help improve Splunk's automation:

#1. Using Modular Inputs (Answer A)

Modular inputs allow Splunk to ingest third-party data efficiently (e.g., APIs, cloud services, or security tools).

Benefit: Improves automation by enabling real-time data collection for security workflows.

Example: Using a modular input to ingest threat intelligence feeds and trigger automatic responses.

#2. Optimizing Correlation Search Queries (Answer B)

Well-optimized correlation searches reduce query time and false positives.

Benefit: Faster detections # Triggers automated actions in SOAR with minimal delay.

Example: Using stats instead of raw searches for efficient event detection.

#3. Employing Prebuilt SOAR Playbooks (Answer E)

SOAR playbooks automate security responses based on predefined workflows.

Benefit: Reduces manual effort in phishing response, malware containment, etc.

Example: Automating phishing email analysis using a SOAR playbook that extracts attachments, checks URLs, and blocks malicious senders.

Why Not the Other Options?

#C. Leveraging saved search acceleration - Helps with dashboard performance, but doesn't directly improve automation.#D.

Implementing low-latency indexing - Reduces indexing lag but is not a core automation feature.

References & Learning Resources

#Splunk SOAR Automation Guide: <https://docs.splunk.com/Documentation/SOAR#Optimizing Correlation Searches in Splunk ES>:

<https://docs.splunk.com/Documentation/ES#Prebuilt SOAR Playbooks for Security Automation>: <https://splunkbase.splunk.com>

NEW QUESTION # 58

What is the primary purpose of Splunk SOAR (Security Orchestration, Automation, and Response)?

- **A. To automate and orchestrate security workflows**
- B. To improve indexing performance
- C. To accelerate data ingestion
- D. To provide threat intelligence feeds

Answer: A

Explanation:

Splunk SOAR (Security Orchestration, Automation, and Response) helps SOC teams automate threat detection, investigation, and response by integrating security tools and orchestrating workflows.

Primary Purpose of Splunk SOAR:

Automates Security Tasks (B)

Reduces manual efforts by using playbooks to handle routine incidents automatically.

Accelerates threat mitigation by automating response actions (e.g., blocking malicious IPs, isolating endpoints).

Orchestrates Security Workflows (B)

Connects SIEM, threat intelligence, firewalls, endpoint security, and ITSM tools into a unified security workflow.

Ensures faster and more effective threat response across multiple security tools.

NEW QUESTION # 59

What is the purpose of using data models in building dashboards?

- A. To compress indexed data
- B. To reduce storage usage on Splunk instances
- **C. To provide a consistent structure for dashboard queries**
- D. To store raw data for compliance purposes

Answer: C

Explanation:

Why Use Data Models in Dashboards?

Splunk Data Models allow dashboards to retrieve structured, normalized data quickly, improving search performance and accuracy.

#How Data Models Help in Dashboards? (Answer B) #Standardized Field Naming- Ensures that queries always use consistent field names (e.g., `src_ip` instead of `source_ip`).

#Faster Searches- Data models allow dashboards to run structured searches instead of raw log queries.

#Example: ASOC dashboard for user activity monitoring uses a CIM-compliant Authentication Data Model, ensuring that queries work across different log sources.

Why Not the Other Options?

#A. To store raw data for compliance purposes- Raw data is stored in indexes, not data models.

#C. To compress indexed data- Data models structure data but do not perform compression.

#D. To reduce storage usage on Splunk instances- Data models help with search performance, not storage reduction.

References & Learning Resources

#Splunk Data Models for Dashboard Optimization: <https://docs.splunk.com/Documentation/Splunk/latest>

/Knowledge/Aboutdatamodels#Building Efficient Dashboards Using Data Models: [https://splunkbase.splunk.com/en_us/blog/tips-](https://splunkbase.splunk.com/en_us/blog/tips-and-tricks)

[and-tricks](https://www.splunk.com/en_us/blog/tips-and-tricks)

NEW QUESTION # 60

Which practices strengthen the development of Standard Operating Procedures (SOPs)? (Choose three)

- **A. Including detailed step-by-step instructions**
- B. Excluding historical incident data
- C. Focusing solely on high-risk scenarios
- **D. Regular updates based on feedback**
- **E. Collaborating with cross-functional teams**

Answer: A,D,E

Explanation:

Why Are These Practices Essential for SOP Development?

Standard Operating Procedures (SOPs) are crucial for ensuring consistent, repeatable, and effective security operations in a Security Operations Center (SOC). Strengthening SOP development ensures efficiency, clarity, and adaptability in responding to incidents.

1##Regular Updates Based on Feedback (Answer A)

Security threats evolve, and SOPs must be updated based on real-world incidents, analyst feedback, and lessons learned.

Example: A new ransomware variant is detected; the SOP is updated to include a specific containment playbook in Splunk SOAR.

2##Collaborating with Cross-Functional Teams (Answer C)

Effective SOPs require input from SOC analysts, threat hunters, IT, compliance teams, and DevSecOps.

Ensures that all relevant security and business perspectives are covered.

Example: ASOC team collaborates with DevOps to ensure that a cloud security response SOP aligns with AWS security controls.

3##Including Detailed Step-by-Step Instructions (Answer D)

SOPs should provide clear, actionable, and standardized steps for security analysts.

Example: A Splunk ES incident response SOP should include:

How to investigate a security alert using correlation searches.

How to escalate incidents based on risk levels.

How to trigger a Splunk SOAR playbook for automated remediation.

Why Not the Other Options?

#B. Focusing solely on high-risk scenarios-All security events matter, not just high-risk ones. Low-level alerts can be early indicators of larger threats. #E. Excluding historical incident data- Past incidents provide valuable lessons to improve SOPs and incident response workflows.

References & Learning Resources

#Best Practices for SOPs in Cybersecurity: <https://www.nist.gov/cybersecurity-framework#Splunk> SOAR Playbook SOP

Development: <https://docs.splunk.com/Documentation/SOAR#Incident> Response SOPs with Splunk: <https://splunkbase.splunk.com>

NEW QUESTION # 61

What are key elements of a well-constructed notable event? (Choose three)

- A. Relevant field extractions
- B. Proper categorization
- C. Minimal use of contextual data
- D. Meaningful descriptions

Answer: A,B,D

Explanation:

A notable event in Splunk Enterprise Security (ES) represents a significant security detection that requires investigation.

#Key Elements of a Good Notable Event: #Meaningful Descriptions (Answer A) Helps analysts understand the event at a glance.

Example: Instead of "Possible attack detected," use "Multiple failed admin logins from foreign IP address".

#Proper Categorization (Answer C)

Ensures events are classified correctly (e.g., Brute Force, Insider Threat, Malware Activity).

Example: A malicious file download alert should be categorized as "Malware Infection", not just "General Alert".

#Relevant Field Extractions (Answer D)

Ensures that critical details (IP, user, timestamp) are present for SOC analysis.

Example: If an alert reports failed logins, extracted fields should include username, source IP, and login method.

Why Not the Other Options?

#B. Minimal use of contextual data - More context helps SOC analysts investigate faster.

References & Learning Resources

#Building Effective Notable Events in Splunk ES: <https://docs.splunk.com/Documentation/ES#SOC> Best Practices for Security

Alerts: <https://splunkbase.splunk.com#How> to Categorize Security Alerts Properly:

https://www.splunk.com/en_us/blog/security

NEW QUESTION # 62

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