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Splunk SPLK-5002 Exam Syllabus Topics:

Topic	Details
Topic 1	• Detection Engineering: This section evaluates the expertise of Threat Hunters and SOC Engineers in developing and refining security detections. Topics include creating and tuning correlation searches, integrating contextual data into detections, applying risk-based modifiers, generating actionable Notable Events, and managing the lifecycle of detection rules to adapt to evolving threats.
Topic 2	• Automation and Efficiency: This section assesses Automation Engineers and SOAR Specialists in streamlining security operations. It covers developing automation for SOPs, optimizing case management workflows, utilizing REST APIs, designing SOAR playbooks for response automation, and evaluating integrations between Splunk Enterprise Security and SOAR tools.
Topic 3	• Auditing and Reporting on Security Programs: This section tests Auditors and Security Architects on validating and communicating program effectiveness. It includes designing security metrics, generating compliance reports, and building dashboards to visualize program performance and vulnerabilities for stakeholders.

Topic 4	• Building Effective Security Processes and Programs: This section targets Security Program Managers and Compliance Officers, focusing on operationalizing security workflows. It involves researching and integrating threat intelligence, applying risk and detection prioritization methodologies, and developing documentation or standard operating procedures (SOPs) to maintain robust security practices.
Topic 5	• Data Engineering: This section of the exam measures the skills of Security Analysts and Cybersecurity Engineers and covers foundational data management tasks. It includes performing data review and analysis, creating and maintaining efficient data indexing, and applying Splunk methods for data normalization to ensure structured and usable datasets for security operations.

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Splunk Certified Cybersecurity Defense Engineer Sample Questions (Q25-Q30):

NEW QUESTION # 25
A security analyst wants to validate whether a newly deployed SOAR playbook is performing as expected.
Whatsteps should they take?

- A. Compare the playbook to existing incident response workflows
- B. Test the playbook using simulated incidents
- C. Automate all tasks within the playbook immediately
- D. Monitor the playbook's actions in real-time environments

Answer: B

Explanation:
A SOAR (Security Orchestration, Automation, and Response) playbook is a set of automated actions designed to respond to security incidents. Before deploying it in a live environment, a security analyst must ensure that it operates correctly, minimizes false positives, and doesn't disrupt business operations.
#Key Reasons for Using Simulated Incidents:
Ensures that the playbook executes correctly and follows the expected workflow.
Identifies false positives or incorrect actions before deployment.
Tests integrations with other security tools (SIEM, firewalls, endpoint security).
Provides a controlled testing environment without affecting production.
How to Test a Playbook in Splunk SOAR?
1##Use the "Test Connectivity" Feature - Ensures that APIs and integrations work.2##Simulate an Incident - Manually trigger an alert similar to a real attack (e.g., phishing email or failed admin login).3##Review the Execution Path - Check each step in the playbook debugger to verify correct actions.4##Analyze Logs & Alerts - Validate that Splunk ES logs, security alerts, and remediation steps are correct.5##Fine-tune Based on Results - Modify the playbook logic to reduce unnecessary alerts or excessive automation.
Why Not the Other Options?
#B. Monitor the playbook's actions in real-time environments - Risky without prior validation. Itcan cause disruptions if the playbook misfires.#C. Automate all tasks immediately - Not best practice. Gradual deployment ensures better security control and monitoring.#D. Compare with existing workflows - Good practice, but it does not validate the playbook's real execution.
References & Learning Resources
#Splunk SOAR Documentation: https://docs.splunk.com/Documentation/SOAR#Testing Playbooks in Splunk SOAR: https://www.splunk.com/en_us/products/soar.html#SOAR Playbook Debugging Best Practices:

https://splunkbase.splunk.com

NEW QUESTION # 26
During a high-priority incident, a user queries an index but sees incomplete results.
Whatis the most likely issue?

- A. Data normalization was not applied.
- B. The search head configuration is outdated.
- C. Indexers have reached their queue capacity.
- D. Buckets in the warm state are inaccessible.

Answer: C

Explanation:
If a user queries an index during a high-priority incident but sees incomplete results, it is likely that the indexers are overloaded, causing queue bottlenecks.
Why Indexer Queue Capacity Issues Cause Incomplete Results:
When indexing queues fill up, incoming data cannot be processed efficiently.
Search results may be incomplete or delayed if events are still in the indexing queue and not fully written to disk.
Heavy search loads during incidents can also increase pressure on indexers.
How to Fix It:
Monitor indexing queues via the Monitoring Console (indexing>indexing performance).
Checkmetrics.logon indexers formax_queue_size_exceededwarnings.
Increase indexer capacity or optimize search scheduling to reduce load.

NEW QUESTION # 27
What are key elements of a well-constructed notable event?(Choosethree)

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

Answer: A,B,C

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 # 28
What key elements should an audit report include?(Choosetwo)

- A. List of unprocessed log data
- B. Compliance metrics

- C. Asset inventory details
- D. Analysis of past incidents

Answer: B,D

Explanation:
An audit report provides an overview of security operations, compliance adherence, and past incidents, helping organizations ensure regulatory compliance and improve security posture.
Key Elements of an Audit Report:
Analysis of Past Incidents (A)
Includes details on security breaches, alerts, and investigations.
Helps identify recurring threats and security gaps.
Compliance Metrics (C)
Evaluates adherence to regulatory frameworks (e.g., NIST, ISO 27001, PCI-DSS, GDPR).
Measures risk scores, policy violations, and control effectiveness.

NEW QUESTION # 29
What is a key feature of effective security reports for stakeholders?

- A. Exclusively technical details for IT teams
- B. High-level summaries with actionable insights
- C. Detailed event logs for every incident
- D. Excluding compliance-related metrics

Answer: B

Explanation:
Security reports provide stakeholders (executives, compliance officers, and security teams) with insights into security posture, risks, and recommendations.
#Key Features of Effective Security Reports
High-Level Summaries
Stakeholders don't need raw logs but require summary-level insights on threats and trends.
Actionable Insights
Reports should provide clear recommendations on mitigating risks.
Visual Dashboards & Metrics
Charts, KPIs, and trends enhance understanding for non-technical stakeholders.
#Incorrect Answers:
B: Detailed event logs for every incident # Logs are useful for analysts, not executives.
C: Exclusively technical details for IT teams # Reports should balance technical & business insights.
D: Excluding compliance-related metrics # Compliance is critical in security reporting.
#Additional Resources:
Splunk Security Reporting Best Practices
Creating Executive Security Reports

NEW QUESTION # 30
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