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Splunk SPLK-5002 考試大綱：

主題	簡介
主題 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.
主題 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.
主題 3	• 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.
主題 4	• 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.
主題 5	• 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.

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最新的 Cybersecurity Defense Analyst SPLK-5002 免費考試真題 (Q28-Q33):

問題 #28
What is the purpose of leveraging REST APIs in a Splunk automation workflow?

- A. To integrate Splunk with external applications and automate interactions
- B. To generate predefined reports
- C. To configure storage retention policies
- D. To compress data before indexing

答案：A

解題說明：
Splunk's REST API allows external applications and security tools to automate workflows, integrate with Splunk, and retrieve/search data programmatically.
#Why Use REST APIs in Splunk Automation?
Automates interactions between Splunk and other security tools.
Enables real-time data ingestion, enrichment, and response actions.
Used in Splunk SOAR playbooks for automated threat response.
Example:
A security event detected in Splunk ES triggers a Splunk SOAR playbook via REST API to:
Retrieve threat intelligence from VirusTotal.
Block the malicious IP in Palo Alto firewall.
Create an incident ticket in ServiceNow.
#Incorrect Answers:
A: To configure storage retention policies # Storage is managed via Splunk indexing, not REST APIs.
C: To compress data before indexing # Splunk does not use REST APIs for data compression.
D: To generate predefined reports # Reports are generated using Splunk's search and reporting functionality, not APIs.
#Additional Resources:
Splunk REST API Documentation
Automating Workflows with Splunk API

問題 #29
What are the key components of Splunk's indexing process?(Choosethree)

- A. Searching
- B. Parsing
- C. Alerting
- D. Input phase
- E. Indexing

答案：B,D,E

解題說明：
Key Components of Splunk's Indexing Process
Splunk's indexing process consists of multiple stages that ingest, process, and store data efficiently for search and analysis.

#1. Input Phase (E)
Collects data from sources (e.g., syslogs, cloud services, network devices).
Defines where the data comes from and applies pre-processing rules.
Example:
A firewall log is ingested from a syslog server into Splunk.
#2. Parsing (A)
Breaks raw data into individual events.
Applies rules for timestamp extraction, line breaking, and event formatting.
Example:
A multiline log file is parsed so that each log entry is a separate event.
#3. Indexing (C)
Stores parsed data in indexes to enable fast searching.
Assigns metadata like host, source, and sourcetype.
Example:
An index=firewall_logs contains all firewall-related events.
#Incorrect Answers:
B: Searching # Searching happens after indexing, not during the indexing process.
D: Alerting # Alerting is part of SIEM and detection, not indexing.
#Additional Resources:
Splunk Indexing Process Documentation
Splunk Data Processing Pipeline

問題 #30
What is the primary purpose of data indexing in Splunk?

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

答案：A

解題說明：
Understanding Data Indexing in Splunk
In Splunk Enterprise Security (ES) and Splunk SOAR, data indexing is a fundamental process that enables efficient storage, retrieval, and searching of data.
Why is Data Indexing Important?
Stores raw machine data (logs, events, metrics) in a structured manner. Enables fast searching through optimized data storage techniques. Uses an indexer to process, compress, and store data efficiently.
Why the Correct Answer is B?
Splunk indexes data to store it efficiently while ensuring fast retrieval for searches, correlation searches, and analytics.
It assigns metadata to indexed events, allowing SOC analysts to quickly filter and search logs.

問題 #31
A security analyst wants to validate whether a newly deployed SOAR playbook is performing as expected. What steps should they take?

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

答案：B

解題說明：
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.

問題 #32
An engineer observes a high volume of false positives generated by a correlation search.
Whatsteps should they take to reduce noise without missing critical detections?

- A. Add suppression rules and refine thresholds.
- B. Disable the correlation search temporarily.
- C. Limit the search to a single index.
- D. Increase the frequency of the correlation search.

答案：A

解題說明：
How to Reduce False Positives in Correlation Searches?
High false positives can overwhelm SOC teams, causing alert fatigue and missed real threats. The best solution is to fine-tune suppression rules and refine thresholds.
#How Suppression Rules & Threshold Tuning Help:#Suppression Rules: Prevent repeated false positives from low-risk recurring events (e.g., normal system scans).#Threshold Refinement: Adjust sensitivity to focus on true threats (e.g., changing a login failure alert from 3 to 10 failed attempts).
#Example in Splunk ES:#Scenario: A correlation search generates too many alerts for failed logins.#Fix: SOC analysts refine detection thresholds:
Suppress alerts if failed logins occur within a short timeframe but are followed by a successful login.
Only trigger an alert if failed logins exceed 10 attempts within 5 minutes.
Why Not the Other Options?
#A. Increase the frequency of the correlation search - Increases search load without reducing false positives.
#C. Disable the correlation search temporarily - Leads to blind spots in detection.#D. Limit the search to a single index - May exclude critical security logs from detection.
References & Learning Resources
#Splunk ES Correlation Search Optimization Guide: https://docs.splunk.com/Documentation/ES#Reducing False Positives in SOC Workflows: https://splunkbase.splunk.com#Fine-Tuning Security Alerts in Splunk: https://www.splunk.com/en_us/blog/security

問題 #33
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