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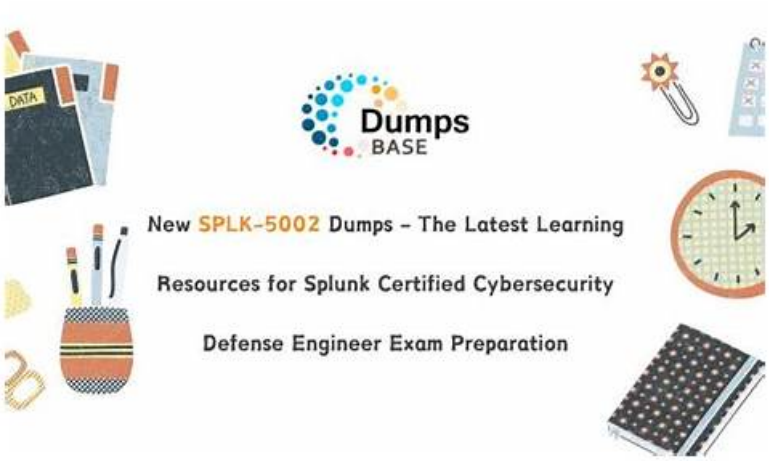

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Splunk SPLK-5002 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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 3	• 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 4	• 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 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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Splunk Certified Cybersecurity Defense Engineer Sample Questions (Q44-Q49):

NEW QUESTION # 44
Which Splunk feature helps to standardize data for better search accuracy and detection logic?

- A. Field Extraction
- B. Data Models
- C. Normalization Rules
- D. Event Correlation

Answer: B

Explanation:
Why Use "Data Models" for Standardized Search Accuracy and Detection Logic?
SplunkData Modelsprovide astructured, normalized representationof raw logs, improving:
#Search consistency across different log sources#Detection logic by ensuring standardized field names#Faster and more efficient querieswith data model acceleration
#Example in Splunk Enterprise Security:#Scenario:A SOC team monitors login failures acrossmultiple authentication systems.#Without Data Models:Different logs usesrc_ip, source_ip, or ip_address, making searches complex.#With Data Models:All fieldsmap to a standard format, enablingconsistent detection logic.
Why Not the Other Options?
#A. Field Extraction- Extracts fields from raw events butdoes not standardize field names across sources.#C. Event Correlation- Detects relationships between logsbut doesn't normalize data for search accuracy.#D. Normalization Rules- A general term; Splunkuses CIM & Data Models for normalization.
References & Learning Resources
#Splunk Data Models Documentation: https://docs.splunk.com/Documentation/Splunk/latest/Knowledge/Aboutdatamodels#Using CIM & Data Models for Security Analytics: https://splunkbase.splunk.com/app/263#How Data Models Improve Search Performance: https://www.splunk.com/en_us/blog/tips-and-

NEW QUESTION # 45
What are essential practices for generating audit-ready reports in Splunk?(Choosethree)

- A. Automating report scheduling
- B. Excluding all technical metrics
- C. Ensuring reports are time-stamped
- D. Using predefined report templates exclusively
- E. Including evidence of compliance with regulations

Answer: A,C,E

Explanation:
Audit-ready reports help demonstrate compliance with security policies and regulations (e.g., PCI DSS, HIPAA, ISO 27001, NIST).
#1. Including Evidence of Compliance with Regulations (A)
Reports must show security controls, access logs, and incident response actions.
Example:
A PCI DSS compliance report tracks privileged user access logs and unauthorized access attempts.
#2. Ensuring Reports Are Time-Stamped (C)
Provides chronological accuracy for security incidents and log reviews.
Example:
Incident response logs should include detection, containment, and remediation timestamps.

#3. Automating Report Scheduling (D)
Enables automatic generation and distribution of reports to stakeholders.
Example:
A weekly audit report on security logs is auto-emailed to compliance officers.
#Incorrect Answers:
B: Excluding all technical metrics # Security reports must include event logs, IP details, and correlation results.
E: Using predefined report templates exclusively # Reports should be customized for compliance needs.
#Additional Resources:
Splunk Compliance Reporting Guide
Automating Security Reports in Splunk

NEW QUESTION # 46
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. Limit the search to a single index.
- C. Disable the correlation search temporarily.
- D. Increase the frequency of the correlation search.

Answer: A

Explanation:
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

NEW QUESTION # 47
A security team needs a dashboard to monitor incident resolution times across multiple regions.
Whichfeature should they prioritize?

- A. Using static panels for historical trends
- B. Including all raw data logs for transparency
- C. Real-time filtering by region
- D. Disabling drill-down for simplicity

Answer: C

Explanation:
A real-time incident dashboard helps SOC teams track resolution times by region, severity, and response efficiency.
#1. Real-time Filtering by Region (A)
Allows dynamic updates on incident trends across different locations.
Helps SOC teams identify regional attack patterns.
Example:

A dashboard with dropdown filters to switch between:
North America # Incident MTTR (Mean Time to Respond): 2 hours.
Europe # Incident MTTR: 5 hours.
#Incorrect Answers:
B: Including all raw data logs for transparency # Dashboards should show summarized insights, not raw logs.
C: Using static panels for historical trends # Static panels don't allow real-time updates.
D: Disabling drill-down for simplicity # Drill-down allows deeper investigation into regional trends.
#Additional Resources:
Splunk Dashboard Design Best Practices

NEW QUESTION # 48
During a high-priority incident, a user queries an index but sees incomplete results.
Whatis the most likely issue?

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

Answer: D

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 # 49
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