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Splunk SPLK-5002 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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 4	• 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 5	• 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.

Splunk Certified Cybersecurity Defense Engineer Sample Questions (Q34-Q39):

NEW QUESTION # 34
A company wants to create a dashboard that displays normalized event data from various sources.
Whatapproach should they use?

- A. Apply search-time field extractions.
- B. Configure a summary index.
- C. Use SPL queries to manually extract fields.
- D. Implement a data model using CIM.

Answer: D

Explanation:
When organizations need to normalize event data from various sources, using Common Information Model (CIM) in Splunk is the best approach.
Why Use CIM for Normalized Event Data?
Standardizes Data Across Different Log Sources
CIM ensures consistent field names and formats across varied log types.
Makes searches, reports, and dashboards easier to manage.
Enables Faster and More Efficient Searches
Uses Data Models to accelerate search queries.
Reduces the need for custom field extractions.

NEW QUESTION # 35
Which Splunk feature helps to standardize data for better search accuracy and detection logic?

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

Answer: A

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 queries with 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 # 36
An organization uses MITRE ATT&CK to enhance its threat detection capabilities.
Howshould this methodology be incorporated?

- A. Develop custom detection rules based on attack techniques.
- B. Rely solely on vendor-provided threat intelligence.
- C. Use it only for reporting after incidents.
- D. Deploy it as a replacement for current detection systems.

Answer: A

Explanation:
MITRE ATT&CK is a threat intelligence framework that helps security teams map attack techniques to detection rules.
#1. Develop Custom Detection Rules Based on Attack Techniques (A)
Maps Splunk correlation searches to MITRE ATT&CK techniques to detect adversary behaviors.
Example:
To detect T1078 (Valid Accounts):
index=auth_logs action=failed | stats count by user, src_ip
If an account logs in from anomalous locations, trigger an alert.
#Incorrect Answers:
B: Use it only for reporting after incidents # MITRE ATT&CK should be used proactively for threat detection.
C: Rely solely on vendor-provided threat intelligence # Custom rules tailored to an organization's threat landscape are more effective.
D: Deploy it as a replacement for current detection systems # MITRE ATT&CK complements existing SIEM/EDR tools, not replaces them.
#Additional Resources:
MITRE ATT&CK & Splunk
Using MITRE ATT&CK in SIEMs

NEW QUESTION # 37
Which Splunk feature enables integration with third-party tools for automated response actions?

- A. Event sampling
- B. Summary indexing
- C. Workflow actions
- D. Data model acceleration

Answer: C

Explanation:
Security teams use Splunk Enterprise Security (ES) and Splunk SOAR to integrate with firewalls, endpoint security, and SIEM tools for automated threat response.
#Workflow Actions (B) - Key Integration Feature
Allows analysts to trigger automated actions directly from Splunk searches and dashboards.

Can integrate with SOAR playbooks, ticketing systems (e.g., ServiceNow), or firewalls to take action.
Example:
Block an IP on a firewall from a Splunk dashboard.
Trigger a SOAR playbook for automated threat containment.
#Incorrect Answers:
A: Data Model Acceleration # Speeds up searches, but doesn't handle integrations.
C: Summary Indexing # Stores summarized data for reporting, not automation.
D: Event Sampling # Reduces search load, but doesn't trigger automated actions.
#Additional Resources:
Splunk Workflow Actions Documentation
Automating Response with Splunk SOAR

NEW QUESTION # 38
Which practices strengthen the development of Standard Operating Procedures (SOPs)?(Choosethree)

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

Answer: A,B,C

Explanation:
Why Are These Practices Essential for SOP Development?
Standard Operating Procedures (SOPs)are crucial for ensuring consistent, repeatable, and effective security operations in aSecurity Operations Center (SOC). Strengthening SOP development ensuresefficiency, clarity, and adaptabilityin responding to incidents.
1##Regular Updates Based on Feedback (Answer A)
Security threats evolve, andSOPs must be updatedbased onreal-world incidents, analyst feedback, and lessons learned.
Example: Anew ransomware variantis detected; theSOP is updatedto include aspecific containment playbookin Splunk SOAR.
2##Collaborating with Cross-Functional Teams (Answer C)
Effective SOPs requireinput from SOC analysts, threat hunters, IT, compliance teams, and DevSecOps.
Ensures thatall relevant security and business perspectivesare covered.
Example: ASOC team collaborates with DevOpsto ensure that acloud security response SOPaligns with AWS security controls.
3##Including Detailed Step-by-Step Instructions (Answer D)
SOPs should provideclear, actionable, and standardizedsteps for security analysts.
Example: ASplunk ES incident response SOPshould include:
How to investigate a security alertusing correlation searches.
How to escalate incidentsbased on risk levels.
How to trigger a Splunk SOAR playbookfor 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 alertscan be early indicators of larger threats.#E. Excluding historical incident data- Past incidents providevaluable lessonsto improveSOPs 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 # 39
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